



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY
Name of the head of the Institution		Dr. Srikanta Murthy K
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08067462703
Mobile no.		9900194834
Registered Email		principal@ncetmail.com
Alternate Email		info@ncetmail.com
Address		Nagarjuna College of Engineering and Technology, Mudugurki, Venkatagirikote Post, Devanahalli, Bengaluru
City/Town		BENGALURU
State/UT		Karnataka

Pincode	562164																		
<b>2. Institutional Status</b>																			
Autonomous Status (Provide date of Conformant of Autonomous Status)	21-Jul-2015																		
Type of Institution	Co-education																		
Location	Rural																		
Financial Status	private																		
Name of the IQAC co-ordinator/Director	Dr. Gururaj M																		
Phone no/Alternate Phone no.	080678462700																		
Mobile no.	9066694433																		
Registered Email	iqac@ncetmail.com																		
Alternate Email	principal@ncetmail.com																		
<b>3. Website Address</b>																			
Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.ncet.co.in/iqac">http://www.ncet.co.in/iqac</a>																		
<b>4. Whether Academic Calendar prepared during the year</b>	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://ncet.co.in/news/Calendar-Of-Events-For-The-Academic-Year-2018-19">https://ncet.co.in/news/Calendar-Of-Events-For-The-Academic-Year-2018-19</a>																		
<b>5. Accrediation Details</b>																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.11</td> <td>2016</td> <td>25-May-2016</td> <td>31-Dec-2021</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.11	2016	25-May-2016	31-Dec-2021
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
1	A	3.11	2016	25-May-2016	31-Dec-2021														
<b>6. Date of Establishment of IQAC</b>	05-Feb-2006																		
<b>7. Internal Quality Assurance System</b>																			
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		
IQAC audit	15-Jul-2019 1	56
ARIIA	28-Oct-2019 1	45
LIC	13-May-2019 1	127
AISHE	27-Feb-2019 1	90
NIRF	31-Jul-2019 1	80
<a href="#">View File</a>		

**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
CSE	Student project	ISRO	2019 365	462000
Civil	AICTE	AQIS	2019 365	1750000
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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)**

1 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
Strengthen Teaching Learning Process	Successfully Implanted
Planning to conduct academic & ISO audits	Conducted successfully
To organize workshops/FDPs in collaboration with industry.	Most of the departments have organized the workshops/FDPs in collaboration with industry.
Application to AISHE	Submitted the application to AISHE on 27/2/2019
To prepare for VTU LIC visit	Successfully completed the visit
To participate in NIRF	Submitted the application
<a href="#">View File</a>	

**14. Whether AQAR was placed before statutory body ?**

Yes

Name of Statutory Body	Meeting Date
Academic council	17-Aug-2019

**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 descripton 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	CS	CS	01/08/2018
BE	IS	IS	01/08/2018
BE	EC	EC	01/08/2018
BE	ME	ME	01/08/2018
MBA	MBA	MBA	01/08/2018
BE	CE	Civil	01/08/2018
Mtech	CSE	Structural Engineering	01/08/2018
Mtech	CCT	Construction Technology	01/08/2018

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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
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BE	Computer Science Engineering-CSE	01/08/2018	Internet of Things - 15CSI71	01/08/2018
BE	Computer Science Engineering-CSE	01/08/2018	Android Application Development-15CST72	01/08/2018
BE	Computer Science Engineering-CSE	01/08/2018	JAVA with Full Stack-15CST744	01/08/2018
BE	Computer Science & Engineering-CSE	01/08/2018	Advanced JAVA- 15HOE757	01/08/2018
BE	Computer Science & Engineering-CSE	01/08/2018	Advanced Python- 15HOE767	01/08/2018
BE	Information Science & Engineering-ISE	01/08/2018	Renewable energy resources-17IST462	01/08/2018
BE	Information Science & Engineering-ISE	01/08/2018	Project Planning and Control-16IST743	01/08/2018
BE	Information Science & Engineering-ISE	01/08/2018	Tax Management-16HOE751	01/08/2018
BE	Information Science & Engineering-ISE	01/08/2018	Small and Medium Enterprise Management-16HOE761	01/08/2018
BE	Information Science & Engineering-ISE	01/08/2018	Compiler Design16ISI553	01/08/2018

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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
Nil	-----NA-----	Nil
No file uploaded.		

### 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	CS	01/08/2018
BE	IS	01/08/2018

BE	EC	01/08/2018
BE	ME	01/08/2018
BE	CV	01/08/2018
Mtech	CSE	01/08/2018
Mtech	CCT	01/08/2018
MBA	MBA	01/08/2018

### 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
Project Based Learning (1)	01/08/2018	121
Technical Aptitude and GD	01/08/2018	386
Career Skill Development Programme SH	01/08/2018	105
Integrated Rural Development - Part 1	01/08/2018	335
General Aptitude	03/09/2018	383
Martial Arts	03/09/2018	70
Management Information Systems	03/09/2018	79
Vyavaharika Kannada / Adalitha Kannada	03/09/2018	26
Constitution of India and Professional Ethics and Human Rights	03/09/2018	35
Basics of Photography	03/09/2018	55
<a href="#">View File</a>		

#### 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	68
BE	Information Science & Engineering	25
BE	Electronics and Communication Engineering	60
BE	Mechanical Engineering	28
BE	Civil Engineering	110
Mtech	Construction Technology	15
Mtech	Structural Engineering	19
MBA	Master of Business Administration	51
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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 institute has developed well structured and systematic feedback system to obtain the inputs and feedback from students, parents, alumni and employers. Student Feedback: Departments would collect Online feedback, twice in a semester from students. Collected Feedback primarily concentrates on academic progress of the curriculum. Parents Feedback: Departments arrange periodical parents meetings and during these meetings, systematic feedbacks were collected from the parents related to the curriculum activities. Alumni Feedback During the Alumni meetings, feedback has been collected from the alumni, who are working in industry and moved to higher studies, with a regard to the curriculum development. Employers/ Industries feedback: Representatives of various industries had shared extremely useful feedback regarding the employability of the students and also their expectation from the students during the placements.

## 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	60	50	46
Mtech	Construction Technology	18	15	11
Mtech	Structural Engineering	24	18	14
BE	Civil Engineering	120	110	95
BE	Mechanical Engineering	120	55	47
BE	Information Science & Engineering	60	70	55
BE	ELECTRONICS AND COMMUNICATION	120	123	111
BE	Computer Science & Engineering	120	144	122

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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
2018	2142	152	132	22	154

## 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	Number of smart classrooms	E-resources and techniques used
154	154	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)

Yes • Institute has developed an effective counseling system, wherein 15 to 20 students would be assigned to a particular teacher, to counsel a student in a systematic manner. • Counsellor maintains a progress report of each student, that progress report would be compiled with all personal, academic, curricular and other details of the student. • A student who is assigned to a particular counselor in the first semester continues to receive counseling from the same counselor till the student completes the programme. • Information about the student performance would be sent to parents through SMS phone calls and E mails. • Institute regularly organizes Parents-Teachers Meetings, where parents interact with counselors and course teachers on their ward's performance. • Performance Evaluation of students in the examination/SEE would be carried out and special Coaching classes would be held for the benefit of weaker students. • Students who are at the risk of drop out were given special attention and were advised to give maximum importance to critical subjects to prevent them, from being detained. • Institution has tied up with Harmonix Global Foundation to organize special counseling sessions for slow learners, students with personal problems, students who frequently skip classes etc to put them on the right track. • Institution has a well structured placement cell which imparts placement related training to enable the students to get moulded for their bright career. • Students with psycho-social problems were provided with special attention and exclusive emotional counseling to overcome their difficulties and personal barriers.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2294	154	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
160	154	6	29	24

### 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	Designation	Name of the award,
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	receiving awards from state level, national level, international level		fellowship, received from Government or recognized bodies
2018	S. G Gopala Krishna	Principal	Best Principal award
2019	Dr. Prachi Beriwalla	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	06/12/2018	23/12/2018
BE	EC, CS, IS, ME, CV	2,4,6,8	11/05/2019	18/05/2019
MBA	MBA	1,3,2,4	21/06/2019	27/07/2019
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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
70	2032	3.44

## 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/electronics-and-communication-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
CV	BE	Civil Engineering	170	164	96%
CS	BE	Computer Science and Engineering	88	85	97%
EC	BE	Electronics and Communication Engineering	99	97	98%
IS	BE		41	41	100%

		Information Science and Engineering			
ME	BE	Mechanical Engineering	154	150	97%
CSE	Mtech	Structural Engineering	16	16	100%
CCT	Mtech	Construction Technology	15	15	100%
MBA	MBA	Master of Business Administration	30	29	97%
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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/wp-content/uploads/Student-Satisfaction-Survey-for-2018-19.pdf>

## 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

<b>Yes</b>
Name of the teacher getting seed money
Sathisha T Y, Souparnika, Nandakishore C V
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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. Venkatesh Kumar H	HAM Licence ( VU3EAU)	17/12/2018	Ministry of Communication , Department of Tele communication . WPC wing Sanchar Bhavan New Delhi 000001
National	Dr. Nagesh K N	Best paper Award in National level paper	20/11/2018	IEEE, PESCE

		presentation event in IEEE conf. At PESCE		
National	Dr. Nagesh K N	Best paper award	29/10/2018	SJICIT in association with Institute of Scholar
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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
Students Research Projects (Other than compulsory by the University)	365	VTU	0.2	0.2
Major Projects	1095	AICTE, AQIS	1.75	2
Students Research Projects (Other than compulsory by the University)	365	Karnataka State Council for Science and Technology (KSCST) - EC	0.14	0.14
Major Projects	365	ISRO	16.8	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

9
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### 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
Robotics	CS	27/09/2018
Industry Institute Interaction with M/S Gleason and Team	CS	13/12/2018
One day workshop on "Recent Trends Technologies	ECE	30/08/2018
Talk on HR Practices	CS	23/02/2019
Technical talk on Indoor Air Quality by Dr. Chandra Shekar, National University of Singapore	ME	25/02/2019

on		
Industry Institute Interaction with M/S Gleason and Team	CSE	13/02/2018
Workshop on Carrere Opportunities in Oil and Petroleum Industries	ME	27/02/2019
International Conference on Innovations and Emerging Trends in Mechanical Engineering (IIETME2019)	ME	25/03/2019
Plantation by Mechanical Engineering 3rd semester students	ME	17/08/2018
Invited Talk on Carrier Opportunities in Aerospace and Engineering.	ME	28/08/2019
IRDP Programmee	ME	02/11/2019
Workshop on HVAC Duct Design	ME	12/11/2019
Virtual Laboratory Awareness Workshop	ME	13/11/2019
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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 oral presentation award	Amaresh Gunge	International Conference on Advances in Materials, Ceramics Engineering Sciences (AMCES - 2020) ,Indian Ceramic Society, Karnataka Chapter and Department of Nanotechnology, Visvesvaraya Technological University.	22/10/2019	Conference
BEST PROJECT	Mr.Kasetty Ram Babu	Siddaganga Institute of Technology Tumkur ,Association of Electrical Sciences Technisium	23/12/2019	Conference

		2019		
Appreciation from ACREX 2018 / ISHRAE -AQUEST 2018 (Quiz Competition)	Dr N Kapilan	ISHRAE Bangalore Chapter	28/11/2018	Conference
Appreciation certificate	Jahnvi L	NPTEL,IIT ROORKEE	07/10/2019	Online course
Appreciation certificate	Aishwarya B K	NPTEL,IIT ROORKEE	07/10/2019	Online course
Appreciation certificate	Dr.Venkatesh Kumar H	NPTEL,IIT Kanpur	16/09/2019	Online course
Appreciation certificate	Dr. ROHITH S	NPTEL,IIT Kanpur	16/09/2019	Online course
Best paper Award	Jyothi priya S	Siddaganga Institute of Technology Tumkur.Association of Electrical Sciences Technisium 2019	15/10/2019	Conference
Best paper Award	Hemanth Tej	Siddaganga Institute of Technology Tumkur	15/10/2019	Conference
Best paper Award	Swarna Bharathi	Sri Sai Baba National Degree and PG College Ananthapur AP	11/12/2019	Conference

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### 3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
Pre - Incubation Center	Department of Civil Engineering . Nagarjuna College of Engineering and Technology	Nagarjuna College of Engineering and Technology	Eco-Autonomous Vehicle	Idea to PoC / Prototype / Innovation	10/09/2018
Pre - Incubation Center	Department of Electronics and Communication Engineering . Nagarjuna College of Engineering	Nagarjuna College of Engineering and Technology	IoT	IoT system design	15/10/2018

and  
Technology

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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
Mechanical Engineering	1

#### 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	1	1
International	CSE	4	1.86
International	ECE	16	4.28
International	ISE	2	2.08
International	Mechanical Engg	9	4.12

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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
ECE	3
CSE	1

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#### 3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
Decision Rule Based Supervised Machine Learning for Power Quality Application	Filed	202021003176	02/02/2018
A machine learning model for detecting respiratory problems using voice recognition.	Filed	201921014636	05/04/2019
An apparatus and method for crossing between one side of railway platform and another side of railway platform.	Filed	201841007653	28/02/2018

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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	Name of	Title of journal	Year of	Citation Index	Institutional	Number of
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Paper	Author		publication		affiliation as mentioned in the publication	citations excluding self citation
Efficient Feature Extraction for Face Recognition with Combined Method of PCA and GMM	Dr Srikanta Murthy	IJET	2018	5	NCET	5
A Novel Compressed Encrypted and Encoded Watermark Embedding Scheme for Digital Images	Rohith S and B K Sujatha	International Journal of Engineering and Technology, IJET	2018	2	NCET	2
Integrated Framework for Secure and Energy Efficient Communication System in Heterogeneous Sensory Application	Dr Shantakumar B Patil	International Journal of Electrical and Computer Engineering	2019	6	NCET	6
Secure Data Aggregation in IOT	Mrs. Swathi S	IJECE-IAES	2019	1	NCET	1
Life cycle energy analysis of a low-cost house in India	Dr. L. Pinky Devi	International Journal of Construction Education and Research	2019	3	NCET	3
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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
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A Novel Compressed Encrypted and Encoded Watermark Embedding Scheme for Digital Images	Rohith S and B K Sujatha	International Journal of Engineering and Technology, IJET	2018	2	2	NCET
Formulation and performance evaluation of alkali-activated self-compacting concrete	Dr. Nagraj V. K	Asian Journal of Civil Engineering	2019	2	2	NCET
Integrated Framework for Secure and Energy Efficient Communication System in Heterogeneous Sensory Application	Dr Shantakumar B Patil	International Journal of Electrical and Computer Engineering	2019	6	6	NCET
Secure Data Aggregation in IOT	Mrs. Swathi S	IJECE-IAES	2019	1	1	NCET
Life cycle energy analysis of a low-cost house in India	Dr. L. Pinky Devi	International Journal of Construction Education and Research	2019	3	3	NCET
An efficient production of hybrid recombinant protein comprising non-structural proteins (NS 1 NS 3) of	Dr. Nagraj V. K	Protein expression and purification	2019	2	2	NCET

bluetongue virus in prokaryotic expression system					
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### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Presented papers	4	1	Nil	Nil
Resource persons	Nil	2	2	3
Attended/Seminars/Workshops	2	Nil	25	24
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### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Dr K Kumar	Vibration test	Bhagmane Developers pvt ltd Bengaluru	20000
Mr. Shashikiran	Material testing	Sai Infra/Vijayapura/KSRTC	71000
Dr. Nagesh K N	LED Display Board - 02 Nos.	Sri Consultancy , M.G. Road, PCR Complex, Chintamani.563125. 9900290175	140000
Mr Prashanth Kumar S, V S Kulakarni	Inspection of Auto Tippers	TMC, Vijayapura	20000
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#### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultant(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Dr Mamatha and Team	Corporate HR Relationship	Bizotic	45000	4
Dr Mamatha and Dr.Rohith Team	Motivational Talk	Course Cube	38000	3
Dr Mamatha and Vinay S R Team	Leadership Skills	Cranessoftware	23000	3
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### 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
Blood Donation Camp	RED CROSS	5	200
Sadhbhavana Day	NSS	4	450
Vivekananda Jayanthi	YRC	6	479
Integrated Rural development Programme and Unnat Bharath Abhiyan by our students at Nandi village	UBA CELL IIT DELHI	8	350
Student voting awareness Campaign and NSS Activity	NSS	4	469
International Womens day celebration	NCET	7	305
STEM CELLS REGISTRATION CAMPAIGN BY SCRI	SCRI	10	176
<a href="#">View File</a>			

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
Techfest	Second Place in R C Plane	NMIT Bangalore	1
Paper Presentation in National Conference	Best paper award	SJCIT in association with Institute of Scholar	1
Paper Presentation in International Conference	Best paper	IEEE, PESCE	1
World Robotics Championship	Technoxian nineteen World robotics Championship Competition	Delhi Tayagaraj Sports Academy	1
Project Exhibition	First Prize in Glider and paper plane presentation	SJCIT , VTU	1
54Kg TAEKWONDO	BRONZE Medal	Global Academy of Technology	1

NPTEL online certification course	Appreciation certificate	NPTEL, IIT Kanpur	1
NPTEL online certification course	Appreciation certificate	NPTEL, IIT ROORKEE	1
NPTEL online certification course	Appreciation certificate	NPTEL, IIT ROORKEE	1
87 KG TAEKWONDO	GOLD MEDAL FOR 87 KG TAEKWONDO	VISVESVARAYA TECHNOLOGICAL UNIVERSITY	1
<a href="#">View File</a>			

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 activities	Number of students participated in such activities
IRDP	NCET / Satya sai Trust	IRDP by ECE Department at Beedeganahalli village	5	54
IRDP	NCET / Satya sai Trust	IRDP by ECE Department at Chikkamarali village	5	53
Swachh Bharat	NCET / Satya sai Trust	Campus to Community Programme at Jalige and Thindlu village.... painting the walls of Govt schools	5	65
NSS	NSS	Blood Donation Camp	5	224
UNNAT BHARAT ABHIYAN	RED CROSS	UNNAT BHARAT ABHIYAN	10	170
<a href="#">View File</a>				

**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
Migration with Mininet	1	CTIF	30
Two days Workshop on "NON DESTRUCTIVE TESTING"	2 staffs+126 students	Dynamic Tek, Chennai	2
Workshop on IFRS	50	Alumni	1

		Association	
Full stack Web development with node JS	1	MITS	30
IoT	25	ALPHA Technology	30
Provided courses in technical areas like Remote sensing, Transportation Engineering, Urban Development, Environmental Engineering, Geotechnical Engineering, Geology, Disaster management, Occupational Safety and Health Administration	60 students	Indian Institute of Remote Sensing (IIRS) - ISRO	120
Guest Lecture on 'Life skill for successful Leader' by	30	NCET	1
Guest Lecture on 'Leadership Lessons from Film Makers'	35	NCET	1
Guest Lecture on 'Career Opportunities in Business Analytics'	50	NCET	1
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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	01/08/2018	31/07/2019	465
Skill development, Mini projects, Internship	Skill development, Mini projects, Internship	MEClank	02/08/2018	31/07/2019	75
Skill development, Mini projects, Internship	Skill development, Mini projects, Internship	BGS Infotech	10/08/2018	31/07/2019	90

Field of Co-operation, Exchange of Faculty, Exchange of Students, Research projects, Intellectual Property rights (IPR), Funding and finance, Link Management and Administration	Field of Co-operation	Sri Sathya Sai Institute of Higher Learning, Puttaparthi	22/10/2018	31/12/2019	50
Skill development, Mini projects	Skill development, Mini projects	Dynamic Tech Chennai	02/08/2018	31/07/2019	90
Internship	Dot Net Internship	Inszoom	01/02/2019	04/02/2019	4
Internship	Campus Recruitment Program	HPE	12/03/2018	30/05/2019	5
Internship	Assignment Training	JK Technosoft	07/03/2019	12/03/2019	8
<a href="#">View File</a>					

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
Dynamic Tech Chennai	28/08/2018	Workshops, Projects, Skill development	145
Dr. Gururaj Karajagi AND NGI	30/08/2018	Creativity and innovation, Softskills training and Entrepreneurship	487
BGS Infotech	10/08/2018	Skill development, Mini projects, Internship	98
Sri Sathya Sai Institute of Higher Learning, Puttaparthi	22/10/2018	Faculty interactions.	15
Seventh Sense and NGI	23/09/2019	Campus Recruitment	365

		Training	
MTC Global and NGI	12/08/2019	Leadership Skills	332
MECLink	02/08/2018	Skill development, Mini projects, Internship	102
<a href="#">View File</a>			

## 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	332.57

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Classrooms with LCD facilities	Existing
Video Centre	Newly Added
Seminar halls with ICT facilities	Existing
Seminar Halls	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
<a href="#">View File</a>	

### 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	34504	10077993	212	115277	34716	10193270
Reference Books	7855	2293660	23	12489	7878	2306149
Journals	567	994672	34	28160	601	1022832
e-Journals	13562	8091887	8591	1717000	22153	9808887
e-Books	14004	565000	Nill	Nill	14004	565000

Digital Database	8	101570	1	13570	9	115140
CD & Video	3110	50000	4	Nil	3114	50000
Library Automation	1	174380	Nil	11000	1	185380
Weeding (hard & soft)	1607	321400	26	6310	1633	327710
Others (specify)	Nil	2480985	Nil	40427	Nil	2521412
<a href="#">View File</a>						

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 Nagesh K N	Digital Communication	Flip Teaching	05/12/2018
Mrs Rekha	Logic Design	Flip Teaching	05/12/2018
<a href="#">View File</a>			

#### 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	0	0
Total	620	13	620	0	0	30	110	100	0

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

100 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
Video Camera, Head Phone, Audio Speakers, Computers, Digital Pad	<a href="http://ncet.co.in/igac">http://ncet.co.in/igac</a>

#### 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 incurred on maintenance of physical facilities
179.5	172.49	775.6	710.82

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)

The college ensures optimal allocation and utilization of the available financial resources for the maintenance and up keeping of different infrastructural facilities by holding regular meetings of various committees constituted for this purpose and using the grants received by the college as per the requirements and the interest of students. Laboratory: Record of maintenance accounts were maintained by lab technicians, Lab In charge and supervised by HODs of the concerned departments. The calibration, repairing and maintenance of sophisticated lab equipments were done by the external expert agencies and by the in-house technicians at regular intervals. Library:- 1. The requirements for the important books were collected from the concerned departments and a list would be prepared and HOD's were actively involved in the process. The finalized list of required books were duly get approved and be signed by the Principal. 2. Suggestions box has been installed inside the reading room to collect users feedback and this feedback has been analysed properly and been utilised to introduce new practices regarding library enrichment. 3. To ensure return of books, 'no dues' from the library has been made mandatory for students before they appear for the exams. 4. Other issues such as weeding out of old titles, schedule of issue/ return of books etc. were chalked out and were resolved by the library committee. Sports: - College sports in charge has been deputed for the effective maintenance of sports equipments. During the session 2018-19, many students from all departments were participated in Cricket, Kabaddi, Volleyball inter-collegiate championship. During 2018-19 VTU sports competitions were organized by college. Computers: - 1. Centralized computer laboratory has been established to strengthen the student's learning experience and build more competency skills among the students. 2. ERP software is being used for maintaining faculty and students details. 3. Each Department got sufficient infrastructure and computers to meet their requirements. 4. Campus has been equipped with 100 MBPS Internet and WIFI. Additionally:- 1. Every department got well trained Lab Technicians, who maintains the stock registers by physically verifying the items round the year. 2. Department wise annual stock verification is being done by concerned Head of the Department. 3. Regular maintenance of Computer Laboratory equipments were done by Laboratory Assistant along with Laboratory attendant and they were headed by the faculty in charge. 4. Campus Administrator would take care of regular cleaning of water tanks, proper garbage disposal, pest control and maintain the landscaping and maintenance of lawns, at regular intervals 5. College campus maintenance would be monitored through regular inspection. 6. Up keeping of all facilities and cleanliness of environment in men's and women's hostel is maintained through Hostel monitoring committee. 7. Updating of software is done by lab assistants at regular intervals 8. Regular maintenance of the water cooler and water purifier is done regularly.

<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	793	44432200
Financial Support from Other Sources			

a) National	SC/ST/OBC/Minorities,Defence,Teachers / Others	2060	40006839
b)International	PMSS (Aicte)	Nil	0
<a href="#">View File</a>			

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 implementation	Number of students enrolled	Agencies involved
Integrated Rural Development-Part 1	01/08/2018	97	Satya Sai Institutions
Technical aptitude and GD	01/01/2019	105	T and P Cell
Career Skill Development Programme SH	06/08/2018	105	T and P Cell
Constitution of India and Professional Ethics and Human Rights	06/08/2018	35	NCET
Skill Development Programme	10/09/2018	48	Dynamic Tech Chennai
Integrated Rural Development-Part 2	07/01/2019	97	Satya Sai Institutions
Martial Arts	03/06/2019	70	Local Experts
Online Certification Courses	07/01/2019	56	National Instruments
Photography	03/06/2019	41	Nikon and NCET
Yoga Meditation	07/01/2019	101	Art of living
<a href="#">View File</a>			

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 passed in the comp. exam	Number of students placed
2018	Aptitude and Java Technical Training	Nil	220	Nil	6
2018	Career Guidance and Study abroad opportunities & Visa Guidance	Nil	450	Nil	35

2018	C and Java Training	Nil	110	Nil	11
2018	Effective Career Planning	Nil	450	Nil	44
2018	Career Guidance & Motivation	Nil	450	Nil	53
2018	Embedded System Training( only for ECE Students )	Nil	40	Nil	1
2018	Java Fullstack Training	Nil	50	Nil	4
<a href="#">View File</a>					

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
18	18	30

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
INSZOOM, MINDTREE, JK TECHNOFT, MPHASIS, ITC INFOTEC, HP INC, ZENOPSYS	227	40	HPE, TCS, ATOS SYNTEL, INFOSYS, LTI, WIPRO, IBM, COGNIZANT	227	71
<a href="#">View File</a>					

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	1	UG	ME	MS RAMAIAA COLLEGE	MBA
2018	3	UG	Civil	VTU RC, BENGALURU, Bapuji Institute of Technology, Davangere	M.Tech

2018	4	UG	CSE, ISE	TU Dortmund University, Germany, PES university, MS Ramaiah Institute of Technology	M. Tech ,MS
2018	6	UG	EC	University of TEXAS, USA, NORTH UMBRIA UNIVE RSITY,LONDON , TU Darmstadt , Germany, University of Toronto, Canada	M.S
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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
GATE	2
GRE	3
TOFEL	3
<a href="#">View File</a>	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Alumni Meet- Rejoice -2018	State Level	128
SCINOVA - Science Fest	State Level	543
Ikya -2019	State level	3675
One Week carnival	College	235
Food fest	College	54
Ganesh chaturthi celebration	College	230
Womens day celebration	College	300
Sports day	College	300
<a href="#">View File</a>		

### 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
------	-------------------------	------------------------	-----------------------------	-------------------------------	-------------------	---------------------

2018	1st place	National	Nil	1	1NC17ME070	RAJEEV PATRA
2018	1st place	National	Nil	1	1NC17ME070	RAJEEV PATRA SHARAN KUMAR
2018	1st place	National	Nil	1	1NC17ME070	RAJEEV PATRA
2018	RUNNERS	National	1	Nil	KHO KHO	Basavaraj, PRAVEEN KUMAR, Sanjay S, B. Raj shekhar Nail, Dheeraj B E, Manjunath D M
2018	RUNNERS	National	1	Nil	CRICKET	V. Raghuram Sai, Ayaz Ahamad Butt, Renuka Prasad, Praveen R, N Sai Charan Reddy, S Guru Vamshi Reddy
<a href="#">View File</a>						

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Describe the Student Council activity and students role in academic administrative bodies within a minimum of 500 characters and maximum of 500 words  
**Class Committee:** The class committee consists of student representatives and faculty representatives. The class committee meeting discusses on resolving various issues and better prospects as given below: Result analysis of continuous internal assessment test and semester end results Feedback on teaching performance of faculty.  
**NSS Committee:** This aims to involve the maximum number of students in NSS activities.  
**Sports Cultural Committee:** Student representatives of this committee encourages and promotes various sports and cultural activities.  
**Anti-Sexual Harassment Cell(CICC):** The student representatives of 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

Primary key factors for the quality of an institution is the success of its alumni. Active alumni also mean that the institution was 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 contribute as a 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 newsletters, holding periodical Alumni day celebrations, or by any other activities 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 were being conducted since 2015 either branch-wise 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 where more than 150 Alumni attended. ? Alumni community are regularly being greeted with wishes for Festival/ College activities are informed from alumni@ncetmail.com ? NCET alumni LinkedIn account 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 core 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 their Internships.

5.4.2 – No. of registered Alumni:

486

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

35000

5.4.4 – Meetings/activities organized by Alumni Association :

On 9th September 2018 Alumni meet Rejoice 2018 was held at TAJ Vivanta, Bangalore in which more than 150 Alumni participated actively and shared their belongingness towards NCET. Sl No Date Of the Event Activity detail Name of the alumni Remarks  
 1 42 gear Pvt. Ltd. On Campus drive 2 students of CSE were placed 2 Advance Lab setup to CSE branch (2018-19 Batch students) M. Mohan 2011 CSE Batch Helped CSE students in learning latest software. 3 23/02/2019 Distinguish Alumni Talk -1 on " HR practices" Ms. Poorvanchala Asst. HR Manager Enworld group Bio Technology 2011 Batch 150 CSE and ISE students attended 4

23/03/2019 Distinguish Alumni Talk -2 How to pursue Career in the Electronic core domain by Mr. Balaji 2006 ECE Batch Head, Hynatic Technologies, Bangalore 100 ECE students attended. Bunch of 5th Semester ECE students got opportunity to do internship at Hynatic Technology 5 23/03/2019 Workshop on "Android Programming" Mr. Sunil NaiK 2008 Passed out Batch ECE Alumni 50 ISE students were trained about hands on experience on Android Application development(App development) 6 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 Biotech 2011 Batch - 300 1st year student were addressed.

## 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)?

Partial

### 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
Admission of Students	Social media platforms are used effectively to reach out to the prospective students.
Industry Interaction / Collaboration	A dedicated Industry Institute Interaction cell is formed to have better coordination among industry and academia
Human Resource Management	Staff Leave Management System is implemented. Staff Welfare measures such group insurance, are provided.
Library, ICT and Physical Infrastructure / Instrumentation	Library is fully automated with Libsoft software. E-Journals are made available to the students and staff.
Research and Development	Faculty members are encouraged to involve in R D activities by providing seed money to R D activities
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

Teaching and Learning	ICT based teaching tools are used.
Curriculum Development	Feedback from all stake holders is collected and suitable changes in the curriculum are implemented.

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

E-governance area	Details
Examination	Software instantk Exam Solutions has been implemented to register the students for examinations, generation of the Hall tickets, seating arrangements, bar code generation for answer scripts, and generation of the results sheets along with grade cards
Finance and Accounts	Tally has been implemented for managing the Finance and accounts
Student Admission and Support	Customized Software is being used for student admission and sending the progress report to students using SMS
Administration	Staff Leave Management System has been implemented for managing staff leaves

### 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
2018	Dr.Rohith	Workshop organized by MSRIT	MSRIT	1000
2018	Dr. Nagesh K N	IEEE SST Membership	IEEE	3000
2018	Dr. Satheesha T Y	IEEE Transactions -	IEEE	30000
2018	Mrs. Souparnika Jadhav	2nd International Conference on Advances in Electronics, Computers and Communications (ICAECC-2018) - REVA UNIVERSITY	IEEE Reva University	6000
2018	Mrs. Swathi S	ICEECCOT-2018	IEEE	3000
2018	Mrs. Mamatha C M	Network Security	NCET	1000
2018	Dr. Shantakumar Patil	"Low Cost Automated Washing	held at Indiana University-	20000

Machine-

Purdue  
University,  
Indianapolis,  
USA.[View File](#)

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 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)
2018	Awareness Program-Digital India	NIL	25/02/2019	25/02/2019	15	Nil
2018	Three Day Hands-on Workshop on Internet of Things and Home Automation	NIL	04/10/2018	06/10/2018	50	Nil
2018	"How to pursue your career in Electronic s Domain"	"How to pursue your career in Electronic s Domain"	23/03/2019	23/03/2019	90	5
2019	Career opportunities in online certification program	Career opportunities in online certification program	06/03/2019	06/03/2019	80	9
2018	Technical Seminar on "Computational Fluid Dynamics (CFD)"	NIL	20/09/2019	20/09/2019	30	Nil
2018	NIL	Effeciant Communication Skills	06/10/2018	Nil	Nil	75
2018	Vivekanda Birth Anniversar	Vivekanda Birth Anniversar	12/01/2018	Nil	Nil	55

	y	y			
2018	National Girl Child day	National Girl Child day	24/01/2019	Nil	40
<a href="#">View File</a>					

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
IT Governance	1	16/03/2019	16/03/2019	1
Awareness Program on Digital India	1	25/02/2019	25/02/2019	1
ICECCOT-2018	1	14/12/2018	14/12/2018	1
Cloud Coding	1	28/10/2018	31/10/2018	1
Computational Artificial Intelligence using Julia	1	25/07/2018	27/07/2018	1
<a href="#">View File</a>				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
144	144	101	101

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Group Insurance	Group insurance, ESI	Group insurance, Free 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)

<p>The management has appointed both internal and statutory auditors for auditing the accounts of the institutions. The last audit was done by 31st March 2019. In the last audit there was no major audit objections. We hereby enclosed the last audited balance sheet and income and expenditure A/c for the year ended 31.03.2019 along with audit report for the society.</p>
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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	240000	Eco-Autonomous Vehicle
<a href="#">View File</a>		

6.4.3 – Total corpus fund generated

**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	VTU Local Inspection Committee	Yes	IQAC
Administrative	Yes	ISO Auditing team	Yes	DQAC

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

1. Regular parent -teacher meetings were organized to discuss about the educational progress of the students 2. Suggestions regarding academic and administrative reforms were heartily received and implemented. 3. Parents had always extended their full support.

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

1. Training programmes are arranged for the Support Staff to improve their performances 2. Health Checkup camps are organized. 3. Yoga Sessions were conducted

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

1. The college conducts need analysis and scientific assessment amongst the students with the help of stakeholders' feedback system to find out the need based syllabus. 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.

## 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
2018	NIRF	31/07/2019	31/07/2018	31/07/2018	80
2018	AISHE	27/02/2018	27/02/2018	27/02/2018	90
2018	LIC	16/05/2018	16/05/2018	16/05/2018	127
2018	ARIIA	29/10/2018	29/10/2018	29/10/2018	45
2018	IQAC audit	24/12/2018	24/12/2018	24/12/2018	56
2018	Submission of AQAR previous year	28/12/2018	28/12/2018	28/12/2018	136

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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	11/03/2019	11/03/2019	247	25
Benefits of gender equality	06/09/2019	06/09/2019	167	135
Human Rights and its Importance	14/11/2018	14/11/2018	158	146
Gender Equality and Women's Empowerment in India	20/02/2019	20/02/2019	243	98

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
Provision for lift	Yes	2
Ramp/Rails	Yes	2
Rest Rooms	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
2018	1	2	29/09/2018	1	Unnat Bharath Abhiyan by our students at Nandi village	Rural development	30
2018	1	1	27/10/2018	2	IKYA 2018	Cultural events were conducted	2567

2018	1	1	11/06/2018	1	NSS activity	education and health awareness programme ,awareness about the cleanliness of our environment	50
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#### 7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Types of Human Values and its Importance	05/11/2018	Article titled Types of Human Values and its Importance By Dr. Srikantamurthy K and Prof. Rohith S 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. These values decide the priority and lifestyle of the person. The values make the personality of the person and decide the growth of the individual, family, society, nation and the humanity. The article covers, family Values, Professional Values, National Values, moral Values and spiritual Values and its Importance.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day	15/08/2018	15/08/2018	153
Kannada Rajyotsava	01/11/2018	01/11/2018	126
Republic day	26/01/2019	26/01/2019	134
Student voting awareness Campaign and NSS Activity	15/02/2019	15/02/2019	745
International Womens day	08/03/2019	08/03/2019	300

celebration			
Anti-terrorism day	21/05/2019	21/05/2019	167
International Yoga day	21/06/2019	21/06/2019	75
<a href="#">View File</a>			

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

• The campus has been designed with lush green landscapes in such a way that the campus is full of trees and well maintained gardens. • The institution has implemented Roof top solar power plant of 100 KW capacity which serves as a supplementary power back-up source for the institution. • The campus is being illuminated with solar street lights. • The hostel blocks were provided with solar energy for the supply of hot water. • The institution has developed and maintaining excellent rain water harvesting system. • The institution has got well designed sewage treatment plant and treated water is being used for the maintenance of gardens. • To maintain hygienic atmosphere, all the blocks of college and hostel were provided with adequate number of dustbins. • Awareness about cleanliness in the campus has been created among the students by organizing Environmental Day. • Tree plantation is being done regularly - to maintain greenery in the campus.

## 7.2 – Best Practices

#### 7.2.1 – Describe at least two institutional best practices

Best Practice: 1 (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: 2 (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: 3 (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 a lot to the student placement activities and for the overall development of 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, mission and Objectives of the institution clearly reflects towards a value based education, based on curriculum of the affiliating university combining it with the core values attached to Nagarjuna Group of Institutions. The college has successfully implemented the flexible Choice Based Credit semester system. The college's prime focus is on skill development, career oriented programs, industry visits, industry - academia interactions and college has brought all these aspects under curriculum implementation and enrichment. Special attention has been given to weak students especially from SC/ST., OBC and minority groups. The students are not only guided to achieve excellence in the education but are thoroughly equipped with the knowledge of

social perseverance and environmental sustainability. It lays a special effort on students understanding of current environmental crisis and through it's various schemes like energy conservation, waste management, rain water harvesting, plantation drives urges them to become eco friendly citizens.

Provide the weblink of the institution

<https://ncet.co.in/>

### **8.Future Plans of Actions for Next Academic Year**

To further intensify the Activities to reach every student of this College from the very First Year and securing a bright future and Career pathways for all Students. To initiate new technology driven activities and values based programs in developing the students to face modern methods of Personality Tests and Interviews. 1. To Organize State / National level Conferences and encourage students and faculty to Paper Presentations and for project competitions. 2. To Organize various short term courses, workshops, seminars from experts under various Departments. 3. To further upgrade the Quality of Guest lecturers on current Topics and Emerging Trends, so as to Prepare our Students as Entrepreneurs and Professionals for the Global Market. 4. To improve placement ratio and more career opportunities to all our students with the help of NCET Alumni 5. To upgrade the Curriculum and syllabus to meet the global standards. 6. To encourage students and faculty to learn various technologies that are available on various e-learning platforms such are NPTEL and Coursera 7. To improve the participation of our students and Faculty in various social awareness activities and solving community problems through modern technological applications.