



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

NARAYANAGURU COLLEGE OF ENGINEERING

**CHITTADAVU ESTATE, MANJALUMOODU POST, VILAVANCODE TALUK,
KANIYAKUMARI DISTRICT**

629151

www.ngce.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

January 2020

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Introduction:

The College came into being as a result and desire of a large number of well wishers associated with Narayanaguru International Institute of Science and Technology, who wanted an educational institution to impart value-based and discipline-oriented modern technical education of global standards at affordable cost, by upholding the principles of SreeNarayanaguru viz. 'One Caste, One Religion and One God for mankind' and 'Freedom through Education'. Established in 2002, we have the heritage of producing some of the best engineers and managers. With 6 B.E. Programmes, 3 M.E. Programmes, MBA and MCA, the success we have attained so far is by challenging our own achievements with the hard word and support of our elite and well experienced faculty. We have been constantly updating and upgrading the education system so as to make our graduates face the challenges of the modern era. The College campus is gifted with nature's greenery and provides the perfect environment for learning. We have fully equipped laboratories and infrastructure to cope with the demand of the modern world. Quality in education has been our forte and shall remain so for the years to come.

Vision

Our Vision:

To be an institution of excellence without bias or prejudice of any kind based on caste, religion, creed, culture, language or faith and providing equal opportunity for all.

Mission

Our Mission:

To strive towards excellence of students. Staff and other constituents by resourcing global quality assets and to promote the well-being of all by creating a knowledge-based society through education in Engineering, Technology and Management.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Eco- friendly practices in the campus.
- Effective mentoring and counseling system.
- Qualified and competent faculty members
- Good support for Extra and Co-curricular activities
- Good governance driven by the expertise and wisdom of eminent personalities serving on the

Governing Council, Academic Council and other authorities

Institutional Weakness

- Geographically located in rural region.
- Department need to become “Research Centres” recognized by Anna University
- MOU’s with Industries needs to be enhanced.
- Funded Research Projects.
- The institute needs to strengthen the Alumni Association
- Less consultancy work.
- Limited placements

Institutional Opportunity

- Offering value added courses/online courses/Certification programmes.
- Opportunities to carryout research projects and any other research initiatives.
- Interaction with Industries
- Initiate ‘Start-ups’ within the Campus.
- Establishment of Innovation Centre and Incubation centers.

Institutional Challenge

- Execution of collaboration with foreign Institutions
- Increase placements in core industries
- To attract high meritorious students

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Our institute follows the curriculum designed and developed by the Anna University and also following the norms and regulations given by AICTE, New Delhi. The Institute has perspective planning for effective implementation of the curriculum through ICT based curriculum delivery. Before commencement of the semester, planning is done for the proper execution of academic activities. For that Institute academic calendar schedule is prepared in line with University calendar. Activity calendar is prepared which includes curricular, co-curricular and extra-curricular activities. The Course planning is done by every faculty member which include course contents, identification of curriculum gaps based on pre defined POs and COs, keeping in line with Institute Vision and Mission. Course files are prepared as per ISO requirement, which include important document like, University Question Papers (last 5 years), Learning Materials, Lab manual, Two Mark Question Bank with Answer key, Course Objectives and Outcomes Lecture, Practical and Tutorial Plan. The

implementation of academic calendar and proper delivery of the curriculum is regularly monitored by HODs. Academic External Audit is conducted by the university which ensures the quality of the curriculum delivery, series test, seminar, projects, practical, assignment and continuous assessments. Students attendance is also monitored by subject teacher and mentor. The academic flexibility is provided to students by offering various elective courses. For overall development of students, institute arranges guest lectures, seminars, workshops and also have initiated Value added courses and online courses apart from curriculum. Encouraging the students to do innovative projects. Institute has Department Advisory Committee to evaluate teaching learning progress. Improving the skills and performance of faculties through Faculty skill up gradation programmes like Refresh Courses, FDTPs, Workshops, IPT, International Conferences, Seminars, Guest Lectures, Ph.D., etc. 67 certificate programs organized during the last five years. Teachers are also members of BoS and Academic Council year wise in university and autonomous colleges. Girls and boys are members of student section of professional bodies such as IETE, IE, SAE, CSI etc. and are participating in various co-curricular activities such as paper presentations, organization of paper contests, group discussions and technical quiz programmes.

Teaching-learning and Evaluation

This criterion deals with teaching- learning and evaluation. The Teaching Learning Process is established with an objective to understand the knowledge level and requirements of the dynamic learner's community and executing the plans vitally for enrichment of skills of learners at different level. Well established and quantifiable Program Outcomes which can be mapped to Qualities of acclaimed professional Graduate. This process is executed by a team of 128 faculty members with 16 Ph.D holders, 25 doing Ph.D who follows both formal and innovative teaching methods to cater the needs of the students. The process is enhanced with the usage ICT tools and e-learning resources such as google forms, NPTEL videos, and various coding platforms. **Plan-Do-Check-Act** strategy is incorporated in all the components of Teaching-learning Eco system which is being certified by ISO 9001:2015. Bloom's taxonomy of Cognitive thinking has been appropriately proportioned in Teaching and Evaluation process. The process is dynamic and flexible in nature and periodically collect Stakeholder's suggestions for improvement in the system. Graduate attributes and Qualities expected by Industry has been enabled through Online courses and Value added courses from reputed Industry partners. Centralized ECO has been in-place for planning and executing transparent, robust and time-bound assessment policies with grievance redressal mechanism. Institute strictly follows the admission procedure, regulations and guidelines set up by University. The students are admitted from all corners of the state as well as from other states. The learning levels of the students are assessed regularly and corrective actions are taken. Assessment strategies are aligned in-line with the regulations prescribed by the affiliating bodies. Diversified learners' community is being balanced by providing special programmes for advanced learners/slow learners; Training on modern tools and technologies with Industrial collaboration, exposure to foreign university online courses with credit inclusion. To enhance the teaching learning experience, student centric approach in teaching learning process is adopted which includes methods such as experimental learning, participative learning and problem solving methodologies. Bridge courses for fulfilling the prerequisites, peer level tutoring be support slow learners.

Research, Innovations and Extension

The institution has established a council "Narayanaguru Engineering College - Research Committee" with the goals of encouraging the research thrust among students and faculty members nurturing the interdisciplinary and intradepartmental research Activities of NEC-RC. Arranging interactions with researchers / R&D organisations /industries. Institute organize guidance programs such as guest lectures, workshops, conferences

on Research Publications / Projects / Plagiarism / Ethics and exploring Government/Non-Government funding agencies, schemes, and circulating the information.

The institution has established "EDC / Intellectual Property Rights Cell" to enhance the innovative and intellectual skills of the students and faculty.

Activities of EDC / Intellectual Property Rights Cell are to arrange meetings with successful entrepreneurs to get motivated, learn the basics of business ,and develop their entrepreneurial skills ,interactions with banks and financial corporate to get idea about financial mobilisation

NEC promotes various schemes for Knowledge Enrichment and Corporate Social Responsibility and are:

- Elite club - language proficiency enrichment
- Math Club - logical and reasoning skills enhancement
- Coders club - coding skills enhancement
- Fine Arts and Cultural club - to bring out multiple talents
- Science clubs - fundamental research ignition
- Eco club - Tree Plantation and Environment Care / Awareness programmes
- YRC, NSS and NGO - Blood Donation, Swachh Bharat, helping Orphanages and Old Age Homes and Schools

NEC facilitates Industry Linkage by inviting industrial experts for technical talk/lecture and seminar, arranging industrial visits and internship at industries. Institute facilitate signing MoUs with industries /higher learning Institutions for conducting certified value added courses, collaborative research and promoting in-plant training.

Infrastructure and Learning Resources

The college provides adequate infrastructure facilities which are meeting not only the norms of regulating bodies but also satisfies functional needs. The following facilities are available in our campus

- All Classrooms and Seminar halls with ICT enabled facilities such as LCD Projector, White board, LAN, Amplifier & Speakers, PC with keyboard.
- Entire campus Wi-Fi enabled.
- Ergonomically designed furniture for classrooms and office.
- State of the art equipment in the laboratories.
- Language Lab provided to enhance communicative skills and language.
- 3000 capacity Multipurpose Auditorium.
- Playgrounds spread over an area of 43525 Sq.m.
- Hostels supported with necessary recreational facilities provides comfortable residency to students from

remote areas.

- Ramps, special toilets, and Lifts are provided to facilitate the differently abled students.
- Placement training centre with separate Seminar halls are provided.
- Fire Hydrant System has been provided which cover the entire Academic & Hostel Buildings.
- Sewage treatment plant, organic waste converter and rain water harvesting systems provided for environment friendly clean and green campus.
- Adequate budgetary provision has ensured for proper maintenance of infrastructure and academic support facilities.

Library as a Learning Resource

- Library is fully automated with in Modernlib software and barcode Technology. The software contains various modules such as Enquiry, Circulation, Administration etc., An OPAC (Online Public Access Catalogue) has been created and 1 terminal are provided to facilitate access the library resources.
- Equipped with reading halls, with a reference collection.
- 3500 titles, 28000+ Volumes, 65 journals, 600 e-journals like science direct, , DelNet, 02 Institutional memberships like DelNet, NDL, CMTI.

IT Infrastructure

- Our College has 100 Mbps internet connectivity (100Mbps provided by BSNL and 20Mbps provided by White Stallion Networks Pvt Ltd.) with wired and Wi-Fi hotspots with extenders.
- 400 Computers and all are connected with LAN facilities.
- Surplus Ethernet ports are provided (both boys and girls hostels) for laptops and other devices.
- Wi-Fi devices are installed at 75 locations.
- Well-equipped facilities for video conferencing, recording facility, and lecture capturing system are available.

Student Support and Progression

Student support and progression includes financial assistance in the form of scholarships, support facilities, academic development and students participation in different co-curricular and extracurricular activities such as Sports & Cultural. Career counselling is given to the students by Mentors regularly and Guest lectures are organized periodically. Placement and Training Cell and Career Guidance cell provide opportunities to get employment or to pursue higher education and to learn the languages like German, Hindi to envision the future prospect of the students. Value added courses, In plant training , Industrial visit and Internships are facilitated as a part of vocational training programmes to create link between theoretical education and working environment. Taking into account the academic and competitive excellence various classes such as Guidance for competitive Examinations, remedial classes and Bridge courses are conducted to enrich the knowledge by considering the skill set of the students. Personal counselling is given for developing the whole sum personality of the students by qualified counsellor and mentors. Student's safety is ensured by various committees such as Anti-ragging committee, Internal Complaints committee and Grievance redressal committee. Students are facilitated to exhibit individual Extra-curricular talents and skills both inside and outside the Institution through various clubs like Elite English Learners club, Math Experts club, Fine arts and cultural club, Science club, Eco club ,RRC and National service scheme and Sports club. Students are assisted to get Government Scholarships.

Apart from this institution offers merit scholarships for meritorious students and financial support for the innovative projects. The Institution provides assistance to get passports, Voter ID and Driving License. The Alumni Association of our Institution strives to develop strong connections between the Institute and its family of alumni and perpetuate a desire for lifelong involvement with the Institute

Governance, Leadership and Management

Narayanaguru Engineering College functions as per the guidelines from the statutory bodies of AICTE and Anna University. Governing Council makes policy decisions and evolves strategies for the development of the institute. Advisory Committee provides the support for the continual development of infrastructure, lab facilities and other teaching aids. Vision and Mission of the institute is evolved by the Governing Council, Advisory Committee, College Academic Council and Departmental Academic Committee. The internal and external audits are performed periodically for the proper utilization of funds.

ISO Quality Management System (9001:2015) and IQAC take care of the quality objectives, procedures and measures for the continual improvement of the college. The institute has decentralized the responsibility among the internal stakeholders and the organogram of the institution with proper organization structure. College Academic Council comprises of the Principal, the Heads of the Departments and other academic co-ordinators from NSS, Library, Physical Education and Examination Cell which meet regularly to take decisions on academic matters. Various committees, councils, clubs, associations and cells are constituted and they function with defined goals and responsibilities. Welfare measures are provided for both teaching and non-teaching faculty members for their academic excellence and professional development which is approved by Governing Council. Best social practices are incorporated among the students by engaging them in extension service programmes, co-curricular and extra-curricular clubs.

Institutional Values and Best Practices

NEC is an equal opportunity employer. The policies of the college give priorities to women in all its activities. Institute is always keen about technical advancement with safety facilities like CCTV, fire extinguisher etc. Students residing in college hostel, feel safe and satisfied for round the clock security. Woman's grievance Cell of the institute deals with the cases of sexual harassment against girl students or staff members at the workplace. A dedicated 'Centre for Women Welfare, Safety and Progress' is constituted in the campus to take care of women welfare. In the total power consumption, 8.45% is met through renewable energy source of solar and 21.43% is met by the use of LEDs. The solid wastes are converted into composts and sewage water is treated by an aerobic treatment plant of capacity 1 lakh litre. Rain water harvesting (RWH) to the capacity of 2 lakh litre is constructed in the campus. College campus is maintained green by its tree plantation initiatives. It is an eco-friendly campus and user friendly campus. Sufficient funds are allotted to improve the green landscape of the college and proper waste management and effective recycling. Activities like those of NSS, YRC and other extracurricular clubs contribute to the development of ethical and human values. Programmes of national importance such as Engineers Day, National Science Day, Independence Day, Teachers Day, Dr. A.P.J. Abdul Kalam's Birthday and other events are celebrated in the campus periodically.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	NARAYANAGURU COLLEGE OF ENGINEERING
Address	CHITTADAVU ESTATE, MANJALUMOODU POST, VILAVANCODE TALUK, KANIYAKUMARI DISTRICT
City	MANJALUMOODU
State	Tamil Nadu
Pin	629151
Website	www.ngce.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	C P JESUTH ANAM	04651-284500	9486955017	04651-284445	narayanagurucollege@gmail.com
Professor	Robert Raja Singh	04651-286500	9400960010	-	info@ngce.ac.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	Yes Minority Certificate.pdf
If Yes, Specify minority status	
Religious	
Linguistic	Malayalam Minority
Any Other	

Establishment Details				
Date of establishment of the college	26-08-2002			
University to which the college is affiliated/ or which governs the college (if it is a constituent college)				
State	University name	Document		
Tamil Nadu	Anna University	View Document		
Details of UGC recognition				
Under Section	Date	View Document		
2f of UGC				
12B of UGC				
Details of recognition/approval by stationary/regulatory bodies like AICTE, NCTE, MCI, DCI, PCI, RCI etc (other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day, Month and year (dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	10-04-2019	12	

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	CHITTADAVU ESTATE, MANJALUMOODU POST, VILAVANCODE TALUK, KANIYAKUMARI DISTRICT	Rural	10.47	42375

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Automobile Engineering	48	HSC	English	54	2
UG	BE,Civil Engineering	48	HSC	English	108	6
UG	BE,Computer Science And Engineering	48	HSC	English	108	12
UG	BE,Electrical And Electronics Engineering	48	HSC	English	54	3
UG	BE,Electronics And Communication	48	HSC	English	81	0

	Engineering					
UG	BE,Mechanical Engineering	48	HSC	English	108	17
PG	MBA,Master Of Business Administration	24	Any Degree	English	54	54
PG	MCA,Master Of Computer Application	36	B.Sc Computer Science or BCA	English	54	21
PG	ME,Applied Electronics	24	B.E. or B.Tech	English	16	2
PG	ME,M E Computer Science And Engineering	24	B.E or B.Tech	English	16	2
PG	ME,Power Electronics And Drives	24	B.E. or B.Tech	English	16	1

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	19				4				107			
Recruited	18	1	0	19	0	4	0	4	46	61	0	107
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	0				0				0			
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				47
Recruited	33	14	0	47
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				14
Recruited	12	2	0	14
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				0
Recruited	0	0	0	0
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	18	1	0	0	0	0	0	0	0	19
M.Phil.	0	0	0	0	0	0	3	15	0	18
PG	0	0	0	0	0	0	67	65	0	132

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
		0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	15	9	0	0	24
	Female	3	8	0	0	11
	Others	0	0	0	0	0
PG	Male	8	28	0	0	36
	Female	7	7	0	0	14
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	2	2	1	1
	Female	0	0	0	0
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	22	9	23	26
	Female	9	19	2	10
	Others	0	0	0	0
General	Male	28	44	53	73
	Female	33	45	16	34
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		94	119	95	144

3. Extended Profile

3.1 Program

Number of courses offered by the institution across all programs during the last five years

Response: 1008

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2018-19	2017-18	2016-17	2015-16	2014-15
12	8	14	14	7

3.2 Students

Number of students year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
236	362	740	822	1638

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
178	128	179	147	1

File Description	Document
Institutional data in prescribed format	View Document

Number of outgoing / final year students year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
227	52	476	456	540

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

Number of full time teachers year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
143	151	123	139	151

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of sanctioned posts year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
144	151	123	139	151

File Description	Document
Institutional data in prescribed format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 58

Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
474.37	478.45	566.77	774.60	1066.16

Number of computers

Response: 0

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

Being the affiliated institute, the institute implements the curriculum prescribed by Anna University, Chennai. Head of the institution regularly conducts meetings with various department heads to develop strategies for effective implementation of the curriculum. Teachers are encouraged to impart the curriculum through innovative teaching methods including power point presentations, assignments, discussions, workshops, seminars, industrial visits, Technical Quiz, e-learning apart from regular/traditional chalk and talk methods. Infrastructure requirement for all laboratories is provided and upgraded as per the syllabus/scheme of the university. The Institution develops action plans for effective implementation of the curriculum in the following ways,

Academic Council:

- An academic council consisting of Heads of various departments headed by the Principal prepares Policies after strategizing the best methods to successfully implement the curriculum.
- Academic calendar is framed for the institution in the beginning of every academic year with the help of academic planner issued by Anna University through academic council.
- Individual Department planner will be prepared based on the institution academic calendar and all the events will be conducted by adhering to the planned schedule.

Curriculum delivery plan:

- A lesson plan is prepared including Course Outcomes, Course Objectives, reference books, content beyond syllabus and the expected outcomes from the students prepared by respective faculty members at the beginning of each semester.
- The log book is maintained for both theory and lab with the records of students for the particular subjects. It gives an insight how the lecture class is handled throughout the semester.
- Lecture notes, question bank, lab manuals are prepared by the allotted faculty members focusing on the outcome based education and Bloom's Taxonomy.
- Time tables are prepared in advance every semester for theory, tutorial and practical classes based on the, credits as per the curriculum prescribed by the university.

Monitoring:

- HOD's monitor the delivery of the course periodically.
- Monthly reports are collected through class committee meeting from the students and action taken reports are reviewed by the HOD's.
- Feedback about courses is collected in order to monitor the progress in a formal and informal way. Class committee meetings and online course feedback are conducted twice a semester to ensure the syllabus coverage and course outcome.

Result analysis is done periodically for all the assessment examinations and remedial classes are conducted. University exam performance was reviewed with respect to the CO attainment

File Description	Document
Any additional information	View Document

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 50

1.1.2.1 Number of certificate/diploma programs introduced year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
9	13	7	9	12

File Description	Document
Minutes of relevant Academic Council/BOS meetings	View Document
Details of the certificate/Diploma programs	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 0.71

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	1

File Description	Document
Details of participation of teachers in various bodies	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years Response: 15.58	
1.2.1.1 How many new courses are introduced within the last five years Response: 157	
File Description	Document
Details of the new courses introduced	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented Response: 66.67	
1.2.2.1 Number of programmes in which CBCS/ Elective course system implemented. Response: 8	
File Description	Document
Name of the programs in which CBCS is implemented	View Document

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years Response: 57.26	
1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years	

2018-19	2017-18	2016-17	2015-16	2014-15
236	245	346	372	436

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	View Document

1.3 Curriculum Enrichment

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

Response:

Gender:

- Our institution gives equal preference for all genders in every discipline by accommodating both genders in various activities conducted by the institution and also all the committees formed in the Institution.
- Students Welfare Committee, Grievance and Redressal cell and Womens empowerment cell addresses the sensitive issues regarding woman's rights and security.
- Our campus provides safe environment to the girl students and also various motivational events were organized to boost the morale of the girl students as well as female faculties. Women achievers were invited to share their experiences on various important occasions like women's day, Girl child day etc.
- Programs related to Self-defense, roles and responsibilities etc was also organized to sensitize the students towards gender equality.

Environment and Sustainability:

- Courses which integrate the environmental awareness among students were given in curriculum. Courses like renewable and non-renewable energy, Environmental Sciences, Water irrigation systems etc is induced by the university with the objective of emphasizing the concerns on ecosystem, biodiversity, alternative energy conservation among students.
- Various case studies were given to the students to give an awareness like global warming, waste management, pollution awareness etc.
- Students were actively engaged with the local community to spread the awareness by organizing various programs like dengue awareness, tree plantation, Voters awareness, rallies, swatch bharti etc.
- Celebration of events like Water day, earth day etc was also in practice to impart importance of environment to students.

Human values and Professional Ethics:

- Professional Ethics is inculcated into student's curriculum as a part of syllabus. Eminent speakers are invited to address the students about the professional ethics and human values periodically.
- Social awareness related to human values is given through programs like awareness periodically.
- The learnings related to human values are enhanced through various case studies and live activities for the students.
- Projects of students were also encouraged to be on the objective of this ethics.

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 8

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 08

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document
Brochure or any other document relating to value added courses.	View Document

1.3.3 Percentage of students undertaking field projects / internships

Response: 118.22

1.3.3.1 Number of students undertaking field projects or internships

Response: 279

File Description	Document
Institutional data in prescribed format	View Document

1.4 Feedback System

1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and 5) Parents for design and review of syllabus-Semester wise/ year-wise

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above**Response:** A.Any 4 of the above

File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View Document

1.4.2 Feedback processes of the institution may be classified as follows:**A. Feedback collected, analysed and action taken and feedback available on website****B. Feedback collected, analysed and action has been taken****C. Feedback collected and analysed****D. Feedback collected****Response:** A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Any additional information	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 20.28

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
93	101	129	137	0

File Description	Document
List of students (other states and countries)	View Document
Institutional data in prescribed format	View Document

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 24.14

2.1.2.1 Number of students admitted year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
113	167	204	248	0

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
685	441	717	655	0

File Description	Document
Institutional data in prescribed format	View Document

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 8.29

2.1.3.1 Number of actual students admitted from the reserved categories year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	3	42	23	0

File Description**Document**

Institutional data in prescribed format

[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners**Response:**

The institution admits UG & PG I Year students under Government & Management Quota through single window system based on Higher Secondary Examination (HSC) and UG Final Semester Examination. The seats under Management Quota are filled through Consortium of Self Financing Colleges

The institution facilitates special learning, based on the academic capabilities of each student by analyzing their learning levels after admission.

Bridge courses are conducted for the first year engineering students & Lateral Entry Students at the beginning of their Semester to enable smooth transition from intermediate to engineering.

For Advanced learners:

Students with good academic performance are identified, their performance is closely monitored and counseled regularly by the counselor for achieving higher levels

Students are encouraged to enroll in MOOC Courses – Swayam, EdX

Students are encouraged to be members of professional bodies like CSI and organize technical events

Guiding the students for GATE/Competitive Examinations, GRE, TOFEL, IELTS, CAT etc

Coaching is also given in Soft Skill Development Programme like Communicative English, Aptitude for Placement

Demanding assignments and questions are given to them to improve their computational potential

Mock Interviews are conducted for them by Industry people to improve their confidence level to face the interviews

Providing specialized training through Certificate courses

Awards/ Cash prizes for achievements towards appreciation

Participation in exchange programs with other colleges & universities

Motivated to write research papers/articles

Motivate students to attend various seminars, conferences, symposia and workshops so that they can gain knowledge beyond curriculum.

Various club activities are conducted by all the departments in the respective areas to mould the students in corresponding field

For slow learners:

Remedial Classes are conducted with an aim to improve the academic performance of the slow learners, absentees and students who participate in sports and other activities.

Refresher course is conducted which includes basic refresher courses, project based learning, presentations, all departments' orientation, and many more activities

Apart from regular Time-Table Special Hours has been introduced in the timetable for conducting remedial classes for slow learners and developing higher cognitive skills for fast learners

Important topics in each course & previous year university question papers are also discussed during the special classes to get more clarity and confidence on each course

Personal counseling is conducted to improve the academic performance through Mentor-Mentee system.

Parents of the students are timely informed wherever the necessity arises such as lack of attendance, poor academic performance and psycho-social problem.

File Description	Document
Any additional information	View Document

2.2.2 Student - Full time teacher ratio

Response: 4.17

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0

2.2.3.1 Number of differently abled students on rolls

File Description	Document
Institutional data in prescribed format	View Document

2.3 Teaching- Learning Process

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

Response:

The academic monitoring team ensures the efficient and effective way of teaching learning process across the institution. Faculties serves as the facilitators for the students.

Approach adopted for Experiential and participative learning experience:

Initially students are involved in laboratory practical classes for all the departments for the subjects wherever necessary to support teaching and online learning. Remote control system are also used in practical classes to enhance the students' experimental skills.

Students are involved in public awareness programmes to manipulate materials, energy and information thereby creating benefit for humankind.

Field Surveys are conducted to the students in civil departments for planning and estimating new engineering projects based on their core subjects.

Students are also engaged in field projects and internships to give the students an opportunity to develop knowledge and skills through challenges and problems they face in the real world.

MOOC courses for the students are encouraged to offer knowledge on variety of subjects and to familiarize them with the college-level learning and to get prepared academically for the college.

Engages students in high-level debates to refine their ideas and to improve their confidence.

Students are encouraged to participate in conference, seminars, workshops or various external events to support the students in research activities and boost their project ideas.

Industrial visits are organized to let the students know things practically through interaction, working methods and employment practices. Moreover it gives exposure to practical working environments.

Field trips are organized for the students to provide real world learning with real world experiences and to promote socio-emotional growth.

Approach adopted for Problem solving methodologies

To improve critical thinking, creativity and problem solving skills among students, case studies are provided and students are asked to discuss in team or as individuals.

Students are involved in research work like writing research papers and publishing them in a reputed journals.

Final year project works related to their subjects are carried out with the help of teachers.

Activities are conducted in small groups to solve the academic related problems of the students. Students are encouraged to prepare their own creative thinking to involve in such activities

File Description	Document
Any additional information	View Document

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 56.25

2.3.2.1 Number of teachers using ICT

Response: 81

File Description	Document
List of teachers (using ICT for teaching)	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 24

2.3.3.1 Number of mentors

Response: 25

2.3.4 Innovation and creativity in teaching-learning

Response:

Innovation and creativity are fundamental to all academic disciplines and educational activities. A number of approaches to teaching and learning are introduced in the institution for enhancing the learning without losing the objectives and achieving optimum coordination between faculty and students. The traditional method of lecturing has been replaced with more innovative and creative ways of disseminate, sharing and facilitating knowledge development in students. Outcome-Based Learning, Student-Centered Learning, Problem-Based learning, Case Study, etc have also been introduced in our pedagogy with positive impact on learning. Some of the Innovative and creative methods implemented in the institutions are:

Discussion among a group of students to gain the knowledge in the application of different technical concepts to gain a better perspective on the merits & demerits of the concepts

Chalk and talk teaching method is substituted using ICT facilities which include power point presentations, web/online based teaching, NPTEL video lectures

Mini Projects are given on regular basis to test their concepts understanding and help the students to learn beyond the syllabus

Students are encouraged to bring out a journal publication at least once in a semester in connection with the latest technologies in their Department with a clear focus on knowledge creation

The students are encouraged to participate in various programs like in-plant training, field project and industrial visit for their understating of the concepts and help to identify the industrial problems

In order to improve the presentation and communication skill of the students, a paper presentation is mandatorily conducted for all UG & PG students

Workshops, seminars and conferences are organized every year for gaining the knowledge and increase the research potential of the students

Teaching using case studies enable the students to apply what they have learned in the classroom to real-life situations mainly this methodology works well for PG students

PG students are encouraged to carry out microteaching on the topics of their choice from the curriculum, followed by general discussion with the teacher coordinating and supporting all through

Guest lecturers & expert's speech are organized to extend the student's knowledge beyond the curriculum.

Hands on training are arranged to strengthen the practical knowledge of the students along with the theoretical knowledge to acquire their industrial trends.

File Description	Document
Any additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 3105.09

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 5.17

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
9	6	7	11	3

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document

2.4.3 Teaching experience per full time teacher in number of years

Response: 6.09

2.4.3.1 Total experience of full-time teachers

Response: 877

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 0

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 17.83

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
33	30	34	26	0

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

The institution is affiliated to Anna University, Chennai and the process of evaluation is followed as per the University guidelines. The Institute has taken following measures for the effective implementation of the evaluation reforms introduced by the University;

The Institution has an Internal Examination cell and University Examination Cell Headed by Senior Professor to conduct internal assessment and university examination

The examination committee meets periodically to discuss all the examination related matters.

Internal Assessment Question Papers are prepared by all the faculties in line with the requirements of OBE with all levels of Blooms Taxonomy

The question bank consisting of 2 Marks questions and essay questions prepared by each faculty and same is will be submitted to Head of the Department for approval

Two sets of question papers along with answer keys are collected for each course

The Internal Exam Cell collects the two sets of Question Papers for every course and selects one question paper randomly

The question Papers are checked for the CO coverage and knowledge level and approved by the Head of the Department

The questions are also mapped with the relevant course outcomes stated for the respective courses

Central evaluation is conducted after each Continuous Internal Assessment Examination for ensuring consistent and reasonable evaluation

The Internal Assessment Examination performance of the students is monitored by the HOD, Principal and the necessary feedback is given to the concerned faculty members.

Review Meetings are conducted by the heads of department after each assessment examination to assess the level of understanding of students in different subjects and for planning corrective actions based on the individual class result analysis report

Remedial/Special Classes are conducted for the slow learners and absentees

Students are evaluated based on their performance in Continuous Internal Assessment and End-Semester Examinations

Parents Meeting are conducted on timely basics

All the data are collected and stored in digital format for reference purpose

File Description	Document
Any additional information	View Document

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

Students are given awareness as orientation through faculties about internal assessment, question paper patterns and examinations. Our institution adheres to the university regulations for conducting internal assessment and patterns. The academic activity plan is prepared based on the Controller of Examinations notification.

Students are informed regarding the academic schedule through parent meetings, circulars, notice board copies and student representatives. The academic schedule including the dates of assessments and the syllabus coverage for each assessment is mentioned. The examination committee is constituted every year to coordinate the examination activities and communicate to the students, teachers and administrative staff regarding examinations.

The student representatives are informed regarding the details of Regulations and weightage used for each assessment. Three internal tests and one model examination each carrying 100 marks are conducted during the semester by institution in common.

The internal examination committee displays the schedule from time to time. The records are maintained in the individual department and class incharge. The mark list of internal assessment is displayed in the noticeboard as well as circulated and get signed from the students for their knowledge.

Other than this, the individual faculties conduct the unit tests after the completion on the prescribed topics. Unit tests can be of objective type questions and short-notes as per individual faculties' interest.

Evaluation of answer sheets are done by the respective subject teacher within a day through centralised

valuation system. This will be monitored by the Head of the departments.

After the completion of all the examinations the evaluated answer scripts are distributed to the students with the instructions and suggestions immediately after each subjects. This helps the students to know their own performance in individual subjects.

The progress of students in internal assessment is sent to their parents through SMS and parents meeting.

Students are free to interact with the teacher to resolve grievances if any, regarding the assessment.

Internal assessment marks and attendance percentage obtained by the students are entered periodically during the given slot in Anna University web portal in four scheduled phases. The students can view or access their marks periodically after every entry through their login in Anna university Student login.

File Description	Document
Any additional information	View Document

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

Mechanism to deal with examination related grievances will be of both University level and institutional level.

The institution maintains complete transparency in the evaluation to provide platform for redressal of grievances of students regarding all the examinations. All the examination related problems are addressed by the internal examination committee.

Grievance related to University examination:

Common grievances of students before the examination like registration of students' subjects, hall-ticket generation, and wrong entries are communicated to the Controller of Examinations (COE) through the internal examination committee at the earliest. The students are assisted completely by the Exam cell regarding timely updates of COE in university examination through circulars.

During examination the grievances regarding to the question papers like out of syllabus questions, typing errors etc is reported or clarified to the COE.

After the declaration of results, if the student has any objection with results, he/she can apply for the revaluation of his/her answer script after paying the prescribed fee. The photocopy is supplied on the payment of non-refundable fees as prescribed by the university from time to time. University provides the photocopy of answer sheets for their review. Then the subject experts value the photocopy and recommend the answer scripts if eligible. Based on the recommendation the student can apply for the revaluation of he/she feels that evaluation is not upto expected. After declaration of revaluation results, if

the students are unable to achieve the expected result, he/she has an right to challenge the evaluation of answer books as per the guidelines.

Grievance related to Internal examination:

The grievances of the students with reference to the assessment are made clear by showing his/her performance in the answer sheet after evaluation.

If any students scores are poor and if he wish to improve in that subject. He / she can request for the improvement examination to the concerned faculty.

Remedial classes are also conducted for the students who scores very less in the university examinations.

If the students is not able to appear for examination due to medical issue or any genuine reason, examination is conducted for that particular students as per norms and recommendation provided by the concerned subject faculty and HOD with the submission of proper documents.

File Description	Document
Any additional information	View Document

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

The Institution academic calendar is prepared in line with the Anna University academic schedule and same is displayed in the college portal, student academic diary which includes the semester opening and closing dates of the classes of each semester, list of holidays, department activities and schedules of internal & end semester exams tentatively

The institute strictly adheres to the academic calendar in conducting the internal examinations in Theory, Labs, Technical Seminars, Projects and comprehensive on line examination for UG & PG students

Internal Examinations are scheduled and conducted strictly as per the academic calendar recommended by Anna University

The schedule of Continuous Internal Examination is announced to the students on the first day of semester and is also displayed on the notice boards at the department and respective classroom notice boards

File Description	Document
Any additional information	View Document

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 on website and communicated to teachers and students

Response:

Programme outcomes, Programme specific outcomes and course outcomes for all programs offered by the Institute are clearly stated, displayed on institutional website and communicated to teachers and students through staff log book and class notice board, student's calendar

The importance of the learning outcomes has been communicated to the teachers in every IQAC Meeting and student's interaction

- AICTE Programme outcome is followed
- Programme Specific Outcome (3-5) is framed in consultation with Advisory Committee, Industrial Experts and Academician from leading Institution.
- Course outcomes (5-6) of each courses are formed by the department faculty mapping with PSO and PO.
- PO, PSO & Cos are displayed in the website department wise.
- PO and PSO are displayed in the Departments and Laboratories.
- COs are given to the students and explained on the commencement of classes in each semester.

File Description	Document
COs for all courses (exemplars from Glossary)	View Document

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

Institutions are evaluate the attainment of PO, PSO, Cos through internal & external assessments.

Methodology – Internal Assessments

- Conducting three Internal Assessment Tests and Two Unit Tests.
- Question papers are prepared based on the Bloom's Taxonomy.(cognitive domain)
- Each questions are categorized by the COs
- Attainments are calculated by using excel tool.

Tutorials/ Assignments

- Tutorials and assignments sheets are framed based on the blooms taxonomy and course outcomes
- Tutorials and assignments are evaluated and marks has been considered for the continuous assessment tests.

Project Work/Seminar

- A three member review committee has been framed for continuous evaluation project.
- Each review process is evaluated based on outcomes.
- One of the review is evaluated in the presence of industrial experts to improve the quality of the project.

The frequencies of conducting the various surveys/feedback are

- Students feedback
- Graduating Students feedback:
 - At the end of course (Programme Exit Survey)
 - Alumni feedback
 - Placement record
 - Recruiters feedback
 - Employer feedback
 - Entrepreneurship
- Course outcomes are measured from the Entrepreneur

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

2.6.3 Average pass percentage of Students

Response: 57.02

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 130

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 228

File Description	Document
Institutional data in prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.34

NAAC

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 0

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description

Document

List of project and grant details

[View Document](#)

3.1.2 Percentage of teachers recognised as research guides at present

Response: 0

3.1.2.1 Number of teachers recognised as research guides

3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

3.1.3.2 Number of full time teachers worked in the institution during the last 5 years

Response: 150

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

Institution takes up initiatives for creation and transfer of knowledge regularly with members and students

from different departments through research & development center and Incubation center. Institution is located in an eco friendly campus and institution encourages staff and students to carry out research projects that give practical solutions to environment based problems.

Research & Development Center

- To promote research activities like Funding proposal from Funding agencies like DRDO, AICTE, UGC etc for the students and staff research projects
- Encourage staff and students to take part in professional bodies to share the experts knowledge in research
- Faculty members & students have published 178 research papers in reputed journals in the past 5 years.
- Faculty members use to visit nearby local industry to identify technical problems faced by them and provide solutions to them

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 71

3.2.2.1 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
13	14	12	16	16

File Description	Document
List of workshops/seminars during the last 5 years	View Document

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Institutional data in prescribed format	View Document

3.3.2 The institution provides incentives to teachers who receive state, national and international

recognition/awards**Response:** No**3.3.3 Number of Ph.D.s awarded per teacher during the last five years****Response:** 0

3.3.3.1 How many Ph.D.s awarded within last five years

Response: 9

3.3.3.2 Number of teachers recognized as guides during the last five years

File Description

List of PhD scholars and their details like name of the guide , title of thesis, year of award etc

Document[View Document](#)**3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years****Response:** 0.22

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
18	3	5	3	2

File Description

List of research papers by title, author, department, name and year of publication

Document[View Document](#)**3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years****Response:** 0.3

3.3.5.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2	9	3	28	0

File Description	Document
List books and chapters in edited volumes / books published	View Document

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

The institution encourages and promotes student community and faculty community to actively take part in extension activities and community development activities. To sensitize the student community our NSS unit plays a vital role.

The institution has 1 No of NSS unit with total number of students as _____. With help of this NSS unit and other supporting team institution organized the following activities to gives importance to social outreach activities to help the neighborhood and also to instill social responsibilities in the young minds.

- Village adaptation (mention the village details if any)
- Awareness program to promote Girl students education
- Free computer education to in and around rural students Tree plantation (photograph)
- Awareness program on child literacy
- Awareness program on plastic disposal
- Anti Tobacco Rally
- Awareness Programs on AIDS
- Waiving of tuition fee is done to the neighborhood community students
- Handling of classes at the government schools of nearby community by our faculty and students
- Swath Bharath

The institute is undertaking its extension activities in nearby villages. The learning space is not limited to the classroom. The institute is very actively involved with NGOs and other organizations to conduct various extension activities.

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 0

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Number of awards for extension activities in last 5 years	View Document
Number of awards for extension activities in last 5 years	View Document

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 22

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
4	4	5	4	5

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	View Document

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 3.04

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	100	50

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 56

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
23	13	13	3	4

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 5

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

2018-19	2017-18	2016-17	2015-16	2014-15
3	1	1	0	0

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document

NAAC

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

Narayanaguru College of Engineering & Technology is situated at Rural Area. The Institute has an extensive campus of 10.47 acres with up to date infrastructure, well equipped laboratories, spacious library, ICT enabled class rooms, high-tech placement and training block, seminar halls and spacious auditorium to enable a beneficial environment aiding effective knowledge transfer.

The institution has internet facility with 100 Mbps speed. The institution is equipped with modern computing facilities with 750 computers and 3 servers with specialized software, with LAN/Wi-Fi connection separately to run UG & PG courses. Language lab facility given to improve the communication skills of the students.

The institution updates its main library, digital library constantly to meet the requirements and every department is equipped with their own computing resources as well as department library for the student access. PG Department like M.E and MBA had PG research library for the students access with recent journal and research articles.

The institution has Skill Oriented Courses that promote entrepreneurship have modernized Labs with highly sophisticated equipments to help the local community peoples. Each floor is facilitated with purified water for students/staff members. Campuses are under the surveillance of CCTV cameras.

The detailed facilities are,

Particulars	Description	No.'s	Area (In Sq.Mrs)
Class Rooms	Good acoustic conditioned, ergonomically designed classrooms with green boards and LCD projection & Internet facility	55	3026 Sq. Mts.
Tutorial Rooms	Well equipped with green board, benches	12	697 Nos
Laboratories	Well equipped with multiple sets of apparatus.	59	6225 Nos
Workshop	Well-equipped in all respect to conduct workshop activities.	2	499 Nos
Seminar Hall	Seating capacity ----- students with LCD projection		1113 Nos
Auditorium			12 Nos
Library		1	

S.No	Particular	Available
1.	Desktop Computers	750
1.	Server	3

1.	Printer	42	
1.	CD writer	44	
1.	Router	7	
1.	Firewall	1	
1.	Switches	101	
1.	Laptops	11	
1.	Projectors	16	
1.	Projector accessories	16	
1.	Scanners	12	
1.	CCTV camera	128	

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

Response:

The institute believes that the sports are most important aspect for forming the all-round individuality of student. The college has adequate facilities for indoor and outdoor sports. The Cultural activities are hosted in the Auditorium of the institute that has a full size stage in the auditorium with seating capacity of 1000 with an open space and a lawn surrounded by trees and buildings which is used for street play staging and small performances.

The sports department organizes various training programs for the boys and girls students and also makes them eligible for the inter-collegiate, inter-university, state and national level competitions.

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 41.38

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 24

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 32.52

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
68.06	89.92	404.51	432.12	24.61

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document
Audited utilization statements	View Document
Any additional information	View Document

4.2 Library as a Learning Resource

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

Response:

The Institution continuously strives to supplement its resources to facilitate knowledge collection and diffusion to provide an enriching educational experience through library for students and faculty members.

New arrivals are kept for updating latest technique and technologies. College Library maintains a book bank mainly consisting of UG & PG level text books to help students. These books are assets to the student community to enrich their knowledge.

Project reports of students are kept in library as the special report collection for the future reference of the present students which helps them for their project work and proposals and thesis of PG students also maintained separately.

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

The Library continuously strives to augment its resources to facilitate knowledge collection and dissemination and provide an enriching educational experience.

It has acquired useful books including rare books, reports, thesis, other knowledge resources to enrich its collection.

It possesses 203 rare books and manuscripts in Tamil, Malayalam, Hindi and English, some of which are

original editions. The special collection in the library provides for research interests and subject specializations of students and faculties of diverse areas and interests.

The collection of rare books, as other holdings of the library, also support and enhance the teaching learning process.

Research Scholars and Faculty are encouraged to recommend reference books to enrich the special collection. Book catalogues and reviews are studied to identify references that must be procured to enhance both the quality and quantity of reference books, especially for new programs introduced in the Institute and also challenging emerging areas of research. Feedback from users is also analyzed for procurement of rare or special books.

Users are encouraged to submit their suggestions which are forwarded to the Chairperson, Library Committee for necessary action.

Users can also submit their suggestions through general interaction, making an application, and through e-mail or through Class Committees and Heads of the Departments.

File Description	Document
Any additional information	View Document

4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)**Response:** 3.68**4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)**

2018-19	2017-18	2016-17	2015-16	2014-15
2.55	2.36	3.31	8.13	2.05

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.5 Availability of remote access to e-resources of the library**Response:** Yes**4.2.6 Percentage per day usage of library by teachers and students****Response:** 7.12**4.2.6.1 Average number of teachers and students using library per day over last one year****Response:** 27**4.3 IT Infrastructure****4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

Institution will deploy and upgrade the IT infrastructure and its associated facilities on timely basis. All department Heads submit their budget requirement well in advance before the commencement of every academic year to the Principal for the installation of new or additional IT infrastructures. The college has ample facilities of the information technologies including Wi – Fi and the internet connections well spread through the campus and it is modernized frequently on timely basics.

The institution is equipped with 750 internet connected computers, 03 servers. All the systems in the college campus are provided with LAN facility. The college has a well-equipped smart class rooms with all modern facilities concerning ICT. The conference halls consist of computers with internet and LCD Projectors.

Firewall is provided to prevent the unauthorized Internet users from/to accessing private networks connected to the Internet. Licensed Antivirus is used to enable the security of the computers. The institute upgrades the software packages and also purchases software currently being used in the industry to make the students, industry ready for all departments based on the department requirements.

Up gradation of IT facilities

Wi-fi Facility:

Mention the Wi-Fi details being used in the college

Name of service provider	Bandwidth available	Wi-Fi accessible area in college	No of Nodes	Firewal
Nanjil Internet Services Pvt Ltd	100 Mbps	300 meters	28	WatchC

Server Details:

No. of server: 3

Mention each server configuration in detail like server brand name, processor, speed, memory etc

Configuration

Sl.No	Name of the Company	System Configuratio	Hard Disc	Ram
1	IBM	Xenon X3250N3 Quadrant Processor 2.40 GHZ	1 TB	8 GB
2	IBM	Xenon 1.3 GHZ Processor	250 GB	4 GB
3	IBM	IBM eServer X Series	80 GB	512 MB

206(8482i8s),Intel Pentium 4.3 GHZ Processor

4.3.2 Student - Computer ratio**Response:** 0.8**4.3.3 Available bandwidth of internet connection in the Institution (Lease line)****>=50 MBPS****35-50 MBPS****20-35 MBPS****5-20 MBPS****Response:** >=50 MBPS**4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)****Response:** Yes**File Description****Document**

Facilities for e-content development such as Media Centre, Recording facility,LCS

[View Document](#)**4.4 Maintenance of Campus Infrastructure****4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years****Response:** 5.69**4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)**

2018-19	2017-18	2016-17	2015-16	2014-15
17.60	45.78	0	65.07	72.40

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	View Document
Audited statements of accounts.	View Document

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

Response:

The institution holds well established customary systems and measures for maintaining the physical, academic and support facilities that are governed by the supervision of faculty in charges in college level.

Service departments staff details

S.No.	Service Departments	Number of Staffs
	Electrical Work	2
	Civil work	2
	Transport	35
	Computer servicing	2
	House keeping	8

Maintenance of sensitive equipment, Power and Water supply

Category	Capacity	Total number	Maintenance
Generator for constant Power Supply	200KVA	3 Nos	AMC Amount
	125KVA		
	62.5KVA		
RO plant for constant Water supply	RO Water Purifier	10 Units	-
UPS for Computers Back Up	5 KVA	35 Units	-
	10 KVA	4 Units	-
Elevator	-	-	-

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 27.16

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
109	104	147	207	259

File Description

Document

Upload self attested letter with the list of students sanctioned scholarships

[View Document](#)

Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 27.16

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
109	104	147	207	259

File Description

Document

Any additional information

[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling

- 3. Soft skill development
- 4. Remedial coaching
- 5. Language lab
- 6. Bridge courses
- 7. Yoga and meditation
- 8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: C. Any 5 of the above

File Description	Document
Details of capability enhancement and development schemes	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 55.72

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
188	362	228	388	343

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 3.95

5.1.5.1 Number of students attending VET year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
43	15	32	40	51

File Description	Document
Details of the students benefitted by VET	View Document

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 28.54

5.2.1.1 Number of outgoing students placed year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
149	0	137	129	108

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 1.76

5.2.2.1 Number of outgoing students progressing to higher education

Response: 4

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	View Document
Any additional information	View Document

5.2.3 Average percentage of students qualifying in State/ National/ International level examinations during the last five years (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 3.11

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1	0	1	1	0

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
10	0	36	36	15

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document

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) during the last five years.

Response: 2

5.3.1.1 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-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	2	0	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

Every academic year a student council is formed by comprising one or two student representative from each department and monitored by senior faculty. Members were selected from the respective classes to represent the ideas of all the other students and meetings were conducted to get the review of the students. Institution creates a platform for the active participation of the students in the various academic and administrative bodies including other activities. This entitles the students in ahead headship qualities, in following rules, regulations and execution of skills. The student council plays a vital role in departmental activities such as organizing symposiums, seminars, conferences, and workshops. They are providing great support to college related academic / administrative work with the help of other students under the guidance of senior faculties.

The various Student Representation committees in Administrative and Academic Bodies

S.No	Name of the Committee
1.	Association Committee- Department wise
1.	Industry Institute Interaction cell
1.	Anti-ragging committee
1.	Academic Committee
1.	Internal Quality Assurance Cell (IQAC)
1.	Library Advisory Committee
1.	Grievance & redressal Committee
1.	Women Empowerment Cell
1.	Hostel Committee

1.	Canteen Committee	
1.	Sports Committee	
1.	Discipline committee	
1.	Placement	
1.	NSS/YRC	
1.	Entrepreneur Cell	
1.	Research & development	
1.	Class committee	
Add if any other committee exist currently in the institution apart from above mentioned committees		

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 1

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1	1	1	1	1

File Description	Document
Report of the event	View Document
Number of sports and cultural activities / competitions organised per year	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The Alumni Association of NarayanaGuru College of Engineering NCEAA (alumni association name) is a registered society. The alumni association acts as a bridge for all alumni members to extend their support and to the existing students in the institution by helping in various aspects in academics and non-academics activities. Every outing student is eligible for life time membership and can become a member by fulfilling registration process.

The Alumni Association is structured by President, Vice-President, Secretary, Joint-Secretary, Treasurer and members. To organize the committee activities one senior faculty is deputed as alumni in charge from

each department along with student representatives. Alumni committee organizes the annual alumni meet every year to share their past and present experiences as well as to recall their memories in the institution. Apart from this the Alumni expose their views and plans for their juniors.

The Alumni Association contributes significantly to the development of the institution through financial and non financial means. Alumni participate and contribute to the development of the institute in the following ways,

- They interact with their juniors regarding the current scenario in placements, expectations from industry and potential job opportunities in new emerging areas
- Alumni members deliver guest lectures and also act as the resource persons for workshops and seminars conducted on recent trends in technology also they will share their Professional experience to motivate the students
- Provide internship opportunities for current students as well as mentoring support
- Collaborate and support Technology in Business Incubation
- Provide scholarships for deserving students
- support in conducting industrial visits at their organization
- Arrange and support in placement activities for the students of the Institute like mock interview, Group discussion, technical, person interviews and provide valid suggestions to the current students
- Provide sponsorships for different events organized by the institute like seminars, workshops, National & International Conference, Project Expo etc
- Provide books to the library to establish Book Bank
- Alumni feedback is taken periodically to understand the curricular gaps and recent market trends and based on the feedback certification courses, GL, seminars are arranged

Alumni contribute their roles in R&D of the institution

File Description	Document
Any additional information	View Document

5.4.2 Alumni contribution during the last five years(INR in Lakhs)

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: 3 Lakhs - 4 Lakhs

File Description	Document
Any additional information	View Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 5

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
1	1	1	1	1

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

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

Response:

Our Vision: To be an institution of excellence without bias or prejudice of any kind based on caste, religion, creed, culture, language or faith and providing equal opportunity for all.

Our Mission: To strive towards excellence of students. Staff and other constituents by resourcing global quality assets and to promote the well-being of all by creating a knowledge-based society through education in Engineering, Technology and Management.

Quality Policy: We are committed to pursue excellence in teaching, research and extension, thus imparting global quality technical education to our students through deployment of eminent teachers, technical experts and by the use of quality infrastructure, state of the art instruments, equipments, communication facilities, libraries and interacting with industries, institutions and employers aiming overall development of the individual. We shall exhibit dedicated teamwork and shall strive for continuous improvements.

The College came into being as a result and desire of a large number of well-wishers associated with Narayanaguru International Institute of Science and Technology, who wanted an educational institution to impart value-based and discipline-oriented modern technical education of global standards at affordable cost, upholding the principles of Sree Narayanaguru viz. 'One caste, One religion and One God for mankind' and 'freedom through education'. Established in 2002, we have the heritage of producing some of the best engineers and managers. Our chairman Dr. G. Sidhardhan, is former Registerer in University of Kerala. He has rich academic experience till 1992 as Lecturer to Professor.

The institution has 6 BE/B.Tech Programmes, 6 ME/M.Tech Programmes, MBA, MCA Programmes. The institution follows a participatory mode of governance with all the stakeholders to participate actively in various administrative activities. The Principal monitors the mechanism regarding administration and academic processes. The delegate authority was given to the principal on various activities constituted with the institution. Based on the recommendations of the Governing council, the introduction of new courses expansion of infrastructure, implementation of strategy plans and deployment and other discussions are implemented.

The institution has perspective plans for the modernization of the existing facilities, implementation of new ventures for R & D, infrastructure by means of laboratories, library, class rooms and sporting facilities. These become the usual criteria in the annual budget plan of the institution. The administrative manual is prepared clearly defining and stipulating the recruitment policies, service rules, leave rules and other administrative systems along with practices including grievance and redressal procedures. The feedback of students regarding the governance of the institution is collected, analysed and remedial measures are initiated for the action plans.

The participation of teachers in decision making of the institution is more focused on the formulation of vision and mission of the institute. They involve actively in various internal committees which involves the

planning of various activities which integrates the academic and non-academic activities. The preparation of academic calendar along with the department activity planner involves the ideas of faculties. Creating robust principles, systems, frameworks and processes of the institution intends to reinforce the culture of excellence. All the team work together for the growth of organization.

6.1.2 The institution practices decentralization and participative management

Response:

The institution adapts to the decentralized system of leaderships. It also embeds the participative management by the Management, Principal, Faculties and students. The constructive suggestions and ideas is received from all the levels which improves activities in maintaining quality and welfare aspects of the institution. All the academic and non-academic activities are driven by the principal, HODs and faculties.

Case Study on feedback analysis and report:

At the beginning of every academic year the academic council meeting will be comprised. The effective feedback collection is done in institution for the enhancement of learning and performance. Feedback will be conducted from all the stack holders like students, faculties, parents, alumnus and external resource persons on curriculum and practices. The feedback of students will be reflecting their expectation on the curriculum and extra-curricular activities. Alumnus feedback and other resource person's feedback are given more importance since it aims at the continuous development of institution. These feedback helps to support the next generation of students. This feedback gives the industrial needs and expectation on the upcoming engineers. The individual department feedback will be analysed and the overall feedback analysis report will be prepared based on the individual department feedback.

Based on the report the actions will be taken. For the improvement of life skills for the students more aptitude training, group discussions, trainings on personality skill developments are carried out. This will be suggested to the placement and training cell by the principal. The technical improvements expected will be solved by introducing the certification course related to that areas, conducting workshops, seminars, imparting internships and in plant training to the students. Individual department HOD's and faculty members will be responsible for this activities. The slow learners are given remedial classes based on the feedback of the parents and this is also monitored by the department HODs. The improvements in infrastructure of department based on feedback is also recommended to the principal and approvals are forwarded to the top level management. Then it is processed after approvals. All the resolution and action taken reports are monitored seriously. The feedback plays major role in the improvement of the institutional exposure.

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

The improvement of college in development of academic and non-academic activities is the ongoing

process. At every step the ideas are collected from all the stake holders of the institution involved in the process. The Quality plans are formulated and approved by the higher authority. All the departments are instructed to work on their strategic plans to achieve their goal. Constant support will be offered from corresponding department.

One such example of the implementation of strategic plan was conduction of International conference for the year 2014-2015 and 2015-2016

A detailed perspective plan was prepared by the IQAC and it was forwarded to governing body for the approval. After the discussion it was approved with the modification and changes recommended. The plan includes inviting other colleges for the event, formulation of committees, refreshment and food, chief guest invitation etc.

Then the meeting was conducted in the presence of all the HOD's, senior faculties and principal. List of committees were framed and the incharge were fixed for the committees. The faculty incharge were informed regarding the committee through proper circular. They were asked to prepare the check list for their committees and list of volunteer from all the departments. Then the volunteer list is approved by concerned HOD's. The checklist are verified and budget required for all the committees are requested. Overall budget proposal is prepared and then approved by the principal.

During the commencement of conference, it brought together the business people, researchers, industry professionals and students to discuss innovative ideas and diverse topics on next generation of engineering and services. Hundreds of attendees, paper presenters, key note speakers, tutorial participants were benefitted and more than 1000 papers were presented by the authors. Five speakers from different places addressed to audience and shared knowledge and rich experience of their companies and platforms. Feedback on conference was collected from all the stake holders. They mentioned that it has been fruitful and there got some ideas and experience to face the challenges in the field of engineering.

Thus this activity was successfully conducted based on the strategic plan

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

The institution is headed by the Principal in both academic and administrative level. Functions of various bodies, services rules, procedures, recruitment, promotional policies and grievance redressal policies are in accordance to the university norms and affiliated body including the institutional norms.

Based on the academic standards and performance of the individuals the promotional policies are implemented for the students and faculties in the form of scholarships and appraisal.

All the developmental activities in the college are carried out by the governing council. The governing council bodies meets at least twice a year and takes the report from the institution and formulates the corrective actions whenever needed. The ultimate framing authority of policies is by the governing body.

The finance, infrastructure, renovation, and maintenance related issues are monitored by the governing bodies.

The executive head of the college is the principal. The directives given by the governing body in accordance with the norms and guidelines stipulated will be implemented by the principal.

The overall functioning, maintenance and operation of the department is monitored by the Head of the Department. The HOD's are the conveners of several committees. They are entitled to take decisions as per the needs of the situations and get them ratified by the principal later.

The faculties are responsible for the individuals' academic performance. Based on the experience and expertise of the faculty members, team leads have been identified to lead different teams and to function them effectively. They act spontaneously in moulding and grooming the students in all aspects.

The institutions recruitment takes place according to the norms of the university by the body comprising SSC . At the end of every year the recruitment requirement is submitted to the principal for the next academic year. Staff appraisal system is also in existence with the promotional policies

6.2.3 Implementation of e-governance in areas of operation

- 1.Planning and Development
- 2.Administration
- 3.Finance and Accounts
- 4.Student Admission and Support
- 5.Examination

- A. All 5 of the above
- B. Any 4 of the above
- C. Any 3 of the above
- D. Any 2 of the above

Response: A. All 5 of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP Document	View Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

With the leadership of the principal, all the committee will have specific tasks assigned for the conduction of college functions. Heads of the committees are responsible for monitoring the works. The list of committees present in institution is as follows

1. Governing Council
2. Academic Council
3. Internal Quality Assurance Cell
4. Research and Development Cell
5. Intellectual Property Rights Cell
6. Women's Grievance Redressal Cell
7. Examination committee
8. Training and Placement Cell
9. Discipline Committee
10. Sports Committee
11. Cultural Committee

Each cell/ Committee performs its function as required, and there exists the proper communication within the members of the committees and the members sit for the meetings based on the frequency of meet and minutes of meeting are recorded properly. The functionality of the one of such committee is mentioned below with the activity.

The Placement day organised on 27.09.2019 during the academic year. The conduction of placement day was initially decided in the Academic Council meeting at the beginning of every year. The Placement and Training cell takes the overall responsibility of this event. Then the following committees were constituted for the successful conduction of placement day and the committees meet regularly to execute the tasks as discussed and minutes of meeting is recorded. The Reception committee is responsible for the reception of Chief Guest and the other special invitees with proper channel. The Registration team take cares of registration work. Stage decoration committee were asked to come up with the check list for the requirements. Other committees like transport, seating, catering are monitored by the placement team directly based on the participation of the students. Thus by the good planning the meeting was conducted in sequence with the committee heads with the members and the minutes of meeting is circulated among the members. Then the activities are successfully conducted based on the meeting discussion.

File Description	Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

- 1.Free transport facilities are provided for the faculties to and from their home
- 2.Free medical check-up's are provided.
- 3.Incentives are provided for the faculties who secure the students rank in university examination.
- 4.Financial assist is provided to the faculties to attend various events such as conference, workshop, seminar and FDP's
- 5.On-Duty is provided for the faculties attending academic events.
- 6.Encouraged to publish the papers in reputed journals and incentives are provided during appraisal.
- 7.Special study leave is provided for the faculty pursuing PhD. They are also provided with on-duties for their PhD works.
- 8.Group insurance scheme is introduced for all the faculties.
- 9.Maternity leave upto 3 months will be provided for all the teaching and non-teaching female faculty members.
- 10.Fee concession is provided for the faculty's wards in the institution.
- 11.Special transport is arranged during the assessment and inspection works for the faculties who work after working hours.
- 12.Financial assist is provided for the faculties presenting 100% results in university examinations.
- 13.Sports activities are conducted for the staff members
- 14.Motivational talks and stress management programs are organized for the faculties.
- 15.Special training is given for the fresher's who join the institution.
- 16.Free hostel facilities are provided.

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 23.89

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
52	11	48	41	11

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 3.8

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
4	5	3	4	3

File Description	Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres).	View Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 8.69

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
14	10	12	14	11

File Description	Document
IQAC report summary	View Document
Details of teachers attending professional development programs during the last five years	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

The quality of the faculty depicts the quality of education and training which is imparted in the institution. Each faculty of NGCE has to fill the self-appraisal form and should submit it to the respective Head of the Department at the end of every academic year. This will be evaluated and identified by the principal and

recommended to the management. Along with the score obtained in the self-appraisal, the appraisals given by the Head of Department and Head of Institution on the respective faculties are also weighted.

The Performance appraisal system has the following components.

1. Academic results
2. Lectures taken
3. Implementation of academic plan
4. Practical sessions effectiveness
5. Interaction with the students.
6. Mentoring and counselling capability for the students.
7. Qualification upgradation.
8. Organizing value added courses
9. Organizing FDPs, seminars, workshops and conferences
10. Additional roles and responsibilities taken and their perfection.
11. Publications (books, journals and conferences)
12. Generation of research funds from Government and non-government agencies.
13. Consultancy projects applied and grants received.
14. Ph. D supervision
15. Acting as Reviewers in Journals
16. Patents received
17. Professional membership in their relevant bodies.
18. Discipline.

At the end of each semester, feedback forms are issued to the students for each of the courses attended by them. The feedback forms in the form of questionnaire about the faculties in their subjects and in general. A team consisting of the Head of the Department and Senior Professor in the Department, goes through the feedback forms collected from the students and suggest suitable measures to improve the teaching-learning process. This also included in appraisals.

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

Auditing is an important part of functioning of the institutions financial management. The audit can be done by different wings like internal audit and external financial audit. The internal audit of the institution is taken under the direct control and supervision of financial advisor team. The payments, receipts and accounting on a daily basis is carried out by the Accountant of the institution. Every financial transaction is recorded by the accounts team on the day to day basis and annual audit is done by the senior accountant from the trust office. The copy of the Internal audit report covering all the records related to maintenance of accounts, availability of documentary evidences, documentation etc is preserved.

Subsequently the external statutory audit is conducted by the auditors in accordance with the standard on auditing issued by the government. The auditor statements and budget expenditures are verified with the

related evidences and the report is submitted based on the audit observation and objections.

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III) (INR in Lakhs)

Response: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year-wise during the last five years (INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document

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

Response:

The fund mobilisation and utilisation of the institution is very essential for any organization. The principal and the committees of the colleges monitors the use of resources received from various aspects. The allocated funds are utilized for the purchase of materials, organizing events, research activities, welfare for the faculties etc. Every financial transaction is recorded and all the procedures and dealings are computerized. The transactions are supported by vouchers. All the expenditure, recurring and non-recurring are incurred through cheques. Only duly authorized persons can operate the transaction through bank. For effective check on the accounts, the two tire system of internal audit and external audit is followed.

In the beginning of every academic year, the budget is prepared by various departments and sections in prescribed format as per the circular issued by the principal. Department budget is prepared by the HODs in consultation with the laboratory incharge for the maintenance and other faculty. Then it is forwarded to the principal. The departmental budgets are discussed to the principal in the HOD's meeting and then approved. The infrastructure maintenance related approvals are done by the managements. The institutional budget is prepared by provision of salaries and allowances initially. Later, the provision is made for the administrative and maintenance expenses. The well-defined policies and mechanism for implementing the budget effectively.

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

The IQAC leads the effort for the successful implementation of quality assurance strategies and processes. The two activities depicting the qualities of institution is given below.

Example 1: Conduction of Project expo

Project ideas for the engineering students gives an edge over the race of recruitment to work hard and to ensure good career. Considering this importance the IQAC has initiated project expo for the students and motivates major portion of internal students to display their creative and innovative ideas as a model in the project expo. This enables the students to gain the practical knowledge. In spite of theory concept, various industries expect the capacity of the employees to complete their projects using specific initiative. So the students are motivated to realize the value of practical training through the project expo. The best projects among them were awarded and the students were encouraged to come up with their ideas for the proposals and research funding.

Example 2: Remedial Education

IQAC has initiated the remedial education to assist the students in order to achieve expected results and competencies. This acts as a chance which helps to boost the poorly prepared students to the success. The college has improved the credits and higher probability of achieving results by the remedial actions. This is not considered as a discouragement for the students. But it serves for other purpose which helps the students be in track of faculties. This is offered by the faculties in the institution. This is also offered through the Guest Lectures from other institution for the improved effectiveness for the tough subjects based on the request and feedback of the students.

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

Example 1: Internal Academic Audit:

The academic audit is more importantly considered for the self-study of the individual faculties. This process emphasises self-reflection and self-improvement. Hence the IQAC proposed Internal Academic Audit with the team of senior faculty members to encourage the improvement on education quality process. The key is that the faculties activities must assure, produce and regularly improve the quality of teaching and learning. The departments are examined on the learning objectives, teaching methodology design, effectiveness, assessment results and feedback. The audited report is submitted to the IQAC. The IQAC depicts the remedial actions for the grievances addressed in this audit report.

Example 2: Result Analysis:

The regular result analysis meeting is conducted after the completion of every assessment examination for the reviewing of teaching learning process. There are 3 Number of examinations conducted during every semester and the result analysis meeting is conducted. Individual faculty presents their result analysis. The explanations are given by the individual faculty in case of any reduction in results obtained. The remedial actions are also requested to conduct for the unexpected performance of students and the remedial performance of the students is also monitored specially. This periodic review of the results helps to keep the track of students' performance. In case of any poor performance mentoring is provided for the students to know the difficulties faced by the students.

These are examples of the two methodologies adopted by the IQAC for the review of teaching and learning in the institution.

Institutions are evaluate the attainment of PO, PSO, Cos through internal & external assessments.

Methodology – Internal Assessments

- Conducting three Internal Assessment Tests and Two Unit Tests.
- Question papers are prepared based on the Bloom's Taxonomy.(cognitive domain)
- Each questions are categorized by the COs
- Attainments are calculated by using excel tool.

Tutorials/ Assignments

- Tutorials and assignments sheets are framed based on the blooms taxonomy and course outcomes
- Tutorials and assignments are evaluated and marks has been considered for the continuous assessment tests.

Project Work/Seminar

- A three member review committee has been framed for continuous evaluation project.
- Each review process is evaluated based on outcomes.
- One of the review is evaluated in the presence of industrial experts to improve the quality of the project.

The frequencies of conducting the various surveys/feedback are

- Students feedback
- Graduating Students feedback:
- At the end of course (Programme Exit Survey)
- Alumni feedback
- Placement record
- Recruiters feedback
- Employer feedback
- Entrepreneurship
- Course outcomes are measured from the Entrepreneur

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year**Response:** 4.4**6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years**

2018-19	2017-18	2016-17	2015-16	2014-15
5	3	5	4	5

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document
Any additional information	View Document
IQAC link	View Document

6.5.4 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
- 2.Academic Administrative Audit (AAA) and initiation of follow up action**
- 3.Participation in NIRF**
- 4.ISO Certification**
- 5.NBA or any other quality audit**

A. Any 4 of the above**B. Any 3 of the above****C. Any 2 of the above****D. Any 1 of the above****Response:** D. Any 1 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	View Document
Any additional information	View Document

6.5.5 Incremental improvements made during the preceding five years (in case of first cycle) Post accreditation quality initiatives (second and subsequent cycles)

Response:

Post accreditation quality initiatives:-

- 1) The Peer team in the first cycle largely suggested for the improvement in the Library setup, particularly shifting of the library to a new place having enough space. In the meantime, library has been shifted to a new building constructed with the funds provided by UGC. The library will be computerized and automated before the end of this academic session.
- 2) The Library of the College has been enriched with some good reference books and text books. The College also subscribes few journals.
- 3) Members of staff were told to be computer literate. In the mean time, almost all the members are acquainted with the knowledge of computers having workable knowledge on internet.
- 4) Some more computers have been purchased in the mean time due to implementation of Student Academic Management System for e-Admission & e-Administration like HRMS in the College. The Student Academic Management System, Integrated Finance Management System, Human Resource Management System have been introduced for smooth functioning of e-administration. Wi-Fi system has been set up in the college campus for the internet access to staff and students.
- 5) NCC, NSS & YRC wings of the College are regularly doing their activities by organizing camps and different awareness programmes in the College campus and local villages.
- 6) The College has a Career Counseling Cell, Grievance Redressal Cell looking after the welfare of the students.

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 11

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2	3	1	3	2

File Description

Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

a) Safety and Security

b) Counselling

c) Common Room

In today's scenario, an institution is not only responsible for providing quality education with high standards, it is also responsible for ensuring all the facilities reaches the students with gender sensitivity. The main objective is to ensure that our engineers have personality, exposure, skills and self-confidence to take on the most urgent challenges and assignments.

Safety and Security:

Facilities are provided to the girl and female faculty for the enough security to avoid all sorts of threats within the campus and also provides a tension-free working environment. The passes are issued by the

security at the main entrance. The visitors are insisted to take the visitors pass while they move in the institution premises.

Total campus is under the CTV surveillance to prevent mishaps. Cameras are installed in every academic block covering all the places in the institution. The hostel facility is provided separately for the gents and ladies and the security is available throughout the day and night with shifts.

There exists the anti-ragging committee to offer services of counselling and create awareness to the students on ragging. Grievance and redressal committee exists to address the complaints of students. Women cell exist especially to hear the grievances of female students. Apart from this the suggestion boxes are arranged in campus to address the issues faced by the students in common.

The college owned vehicle is provided for all the girls form their home to the institution and the bus incharge is appointed for all the buses to monitor the discipline matters

Counselling:

There is a discipline committee which is responsible for resolving complaints and providing counselling for the students in the institution. The committee uses to hear and respond to the complaints as described in Discipline rules and regulations. The students are also assigned with a mentor. Mentors will be a senior faculty and they keep the track of their mentees in both academic and non-academic activities as well as personal. They used to counsel the students at periodic intervals and provide the proper guidance based on the issues addressed.

Common Room:

Separate sick room is available for both girls and boys with essential facilities. The common room is also available for boys and girls. For emergency needs it will be used.

Supporting files:

Event details like brochure, report with photos, circular

Photos of common room

Mentor details

Committee's Minutes of meeting which are relevant. (Womens cell, Anti-ragging, discipline etc.)

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 0

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

7.1.3.2 Total annual power requirement (in KWH)	
File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs	
Response: 71.43	
7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)	
Response: 750	
7.1.4.2 Annual lighting power requirement (in KWH)	
Response: 1050	
File Description	Document
Details of lighting power requirements met through LED bulbs	View Document

7.1.5 Waste Management steps including:	
<ul style="list-style-type: none"> • Solid waste management • Liquid waste management • E-waste management 	
Response:	
<ul style="list-style-type: none"> • Solid waste management • Liquid waste management • E-waste management 	
Solid waste management:	
<p>Separate waste bins are placed for the bio-degradable and non-biodegradable wastes. Every day all the non-biodegradable wastes from the academic buildings and other surroundings in the campus are cleaned by the out sourcing agency and dispose accordingly. Bio-degradable wastes are decomposed in a proper manner and used as a manure for the gardening purposes.</p> <p>Awareness programs are arranged for the students on these waste management systems.</p>	

Liquid waste management:

Liquid waste from the various points like canteen, toilet, hostel etc is let out as the proper use for the tree plantation purpose. Other wastes are drainage properly to avoid stagnation.

E-Waste management:

The various types of electronic gadgets used by college like- computers, printers, LCD projectors etc are disposed to the vendor by the proper way. When these products become outdated it is sold to scrap merchants for further processing.

Proper awareness is created among the students about the E-waste management. E-waste from labs are properly collected and it is given to licensed recycler, reused whenever possible.

File Description	Document
Any additional information	View Document

7.1.6 Rain water harvesting structures and utilization in the campus**Response:**

Extensive rain water harvesting facilities have been installed in all the buildings in the campus to improve the underground water level.

All the buildings have facility to collect water and leave it to the pit of rain water. The stored rain water is taken to underground water tanks and then pumping it for gardening and cleaning purpose. The system has been developed in such a way that we use the stored water in many ways. Apart from this the beautiful lawn is created with beautiful flowers. Rain water harvesting system ensures the bore well always be recharged and hence the campus will be free from water scarcity.

Rainwater harvesting has many benefits but the main one is that it is a sustainable water management practice that can be implemented by anyone on many different levels, from a simple rain barrel to a comprehensive rainwater harvesting system that integrates with an irrigation system or household plumbing. By using rainwater harvesting systems to supply water for some, or all of our water needs, you can reduce our dependence on municipally treated water. Overall, rainwater harvesting is viewed as a practice that is socially acceptable and environmentally responsible all the while, promoting self-sufficiency.

Importance of rain water harvesting is also given as awareness to the students as well as the awareness programs are given to the nearby community by the NSS team.

File Description	Document
Any additional information	View Document

7.1.7 Green Practices

- **Students, staff using**
 - a) **Bicycles**
 - b) **Public Transport**
 - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

- **Students, staff using**
 - a) **Bicycles**
 - b) **Public Transport**
 - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

The institution is more conscious in environmental and social activities. There are various steps taken for the same.

The students and staffs of our institution are encouraged to use bicycles and public transport. Most of our college students are using the common transport provided by the institution and the faculties are provided free transport facilities. Apart from this the students in local areas come in their own bicycles which reduce air pollution and also provide physical health stability. The specific parking area is allotted for these vehicles in the campus. The students who are coming by bicycles are encouraged during the annual day by awarding them either by the cash or by prize.

The campus focus mainly on the plastic free practice to reduce the plastic wastes. Awareness programs are also organized to inculcate the importance of the reduction of plastic usage to save the earth. The efforts has been taken to reduce the use of paper in the institution.

The surrounding of the institution is covered with the green landscape

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary

component during the last five years**Response:** 0

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

File Description	Document
Details of expenditure on green initiatives and waste management during the last five years	View Document
Any additional information	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students
8. Any other similar facility (Specify)

A. 7 and more of the above**B. At least 6 of the above****C. At least 4 of the above****D. At least 2 of the above****Response:** D. At least 2 of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document
Any additional information	View Document

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years**Response:** 3

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
0	1	0	2	0

File Description**Document**

Number of Specific initiatives to address locational advantages and disadvantages

[View Document](#)**7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)****Response:** 11

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2018-19	2017-18	2016-17	2015-16	2014-15
2	0	3	2	4

File Description**Document**

Report of the event

[View Document](#)**7.1.12****Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff****Response:** Yes**File Description****Document**

Any additional information

[View Document](#)**7.1.13 Display of core values in the institution and on its website**

Response: Yes	
File Description	Document
Provide URL of website that displays core values	View Document

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations	
Response: Yes	
File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document
Any additional information	View Document

7.1.15 The institution offers a course on Human Values and professional ethics	
Response: Yes	
File Description	Document
Any additional information	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions	
Response: Yes	
File Description	Document
Any additional information	View Document

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years	
Response: 6	
7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years	

2018-19	2017-18	2016-17	2015-16	2014-15
2	1	3	0	0

File Description	Document
List of activities conducted for promotion of universal values	View Document
Any additional information	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

Every year the institution celebrates the national festivals with enthusiasm. Our students are encouraged to work towards the mission to make better India. Apart from religion and caste, the thoughts and sayings of great Indian personalities are inculcated into the young minds by celebrating such national festivals and birth/death anniversaries of great Indian personalities. Every year our institution celebrates the national festivals like Independence day, Republic Day, Women's Day, Engineers day, Teachers day, children day etc. Teachers day is celebrated as the tribute to our former president Dr.Sarvepalli Radhakrishnan's birthday on 5th September. The students of the institution organizes the programs as a honour to the faculties. Various programs are also organized in coordination with this celebration. Gandhi Jayanthi is celebrated in memory of Father of the nation who devoted his whole life in preaching truth and ahimsa. The mass pledge is done by the NSS volunteers of the institution. Various activities like Swaach Bharat Abhiyaan is carried out on this basis and some awareness programs also will be organized. 15th of September is organized as a Engineers day in honour of Visveswaraya who is an eminent engineer. Various competitions are held in related to this day and then the winners are awarded. Project expo is also conducted in line to this to bring out the innovative and creative thoughts of the young engineers

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

The transparency in financial, academic, administrative and other functions are done by the cooperation of all authorities. The requirements related to infrastructure establishment, maintenance and purchase, the request is brought to the knowledge of governing council. The infrastructure establishment is completely done by the help of the management. The purchase of equipments for the laboratory is done by the request of HOD to the principal. All the academic related administration is done by the Principal without any interruption. By the proper channel, the comparative statement, quotation and purchase order is forwarded to the principal. After the discussion with the HOD, the approval is sanctioned by the principal and it is forwarded to the office. The purchase order is forwarded to the vendor and proceeded for the further

requirement.

In academics, the Academic council and IQAC involves for the improvement of quality of students and faculty. Periodic monitoring of teaching and learning methodologies are done. The Academic audit is carried out at the end of every year and then it is transparent to all the departments. The report is forwarded to the concerned departments and then the correction is carried out based on the requirements. All the other records such as attendance, marks, assignments, web portal entry are made transparent to the students. All the in charges displays the performance of the students periodically in their class notice board. Any other information to be shares such as circulars and brochures are displayed in department notice board and the awareness is given to students through the concerned in charges.

Other auxiliary functions are done by the respective committees which is monitored by the principal. The admission process of students are carried out by the admission cell. They guide the students when they enter the institution for the admission. After the admission process they are under the track of respective year in charges regarding their fees, and other guidelines. Recruitment of faculty, transport, placement and training, grievance and redressal, women's cell, etc are under the respective committee by the proper guidance of Principal. All the information are transparent by the circulars to the teaching, non-teaching and students. The Planning and execution of these committees are done by the principals' knowledge to avoid the controversies. The decisions are communicated to all the stackholders by proper channel of the institution.

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Internal Quality Assurance System

Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes Response:

Internal Quality Assurance Cell (IQAC) monitor the academic quality regularly. The institution takes up academic audit to accomplish both accountability and quality improvement. The administrators and staff practiced self-assessment, etc to achieve the quality in education. The academic audit committee consists of fifteen member committee, principal as a chairman and representatives from staff and students. To bring out improvements, the committee interacts with the faculties and students to assess the progress and suggestions are placed before IQAC for further action.

Best practices - 1

Academic audit improves the result

University creates academic calendar before the commencement of each academic year. Based on the academic calendar issued by the University, AICTE & DTE norms, Institute define the schedule for the academic year and publish academic calendar. In addition to above, a team of Program Coordinator (PC) and Program Assessment Committee (PAC) adds schedule as per the program plan. The team comprises PC and PAC define timetable of each semester in the academic year. The faculty creates course outcomes (CO) and lesson plan of the concerned course. Based on the course outcomes defined, the faculty maps the CO with the program outcomes (PO) and define levels. Academic auditing will be done by the head of the department each week and once in a month by the institution. This process ensure that the teaching and learning is happening in the proper way and corrective actions can be taken if there is any issues. As a result the academic audit improves the quality of education and result.

Best practices - 2**Development of smart class room in all department.**

A picture talks thousands of words. Seeing things is easy to remember also. A classroom has students with various power of understanding and learning, and studying from notes and other materials becomes difficult for some students. The use of smart classes and modern technology makes the learning easier.

Smart classes use all interactive modules like presentations and videos and these visually attractive methods of teaching becomes appealing to students who are already struggling with the traditional method of teaching in a classroom. Some students and teachers have problems with chalk dust and they tend to suffer from allergic reactions. The smart boards saves you from such distress and won't let you develop any health issues later. Smart classroom ease out the classroom management. It also provides academic and digital learning. Moreover, this kind of education in class promotes more interaction between teacher and student with more participation from both sides. Based on the feedback got from the students and faculties. It was the IQAC initiative to implement the smart class room in the campus.

Best Practice III

Title of the Practice: Content beyond Curriculum: Online & Value Added Courses and Training

Activities.

Objectives of the Practice

- To gain access to expertise of global leaders and instructors in various domains of engineering and technology and stay up to date with the recent advancements.
- To bridge the industry-institute gap.
- To help students to come up with innovative ideas and do relevant projects that have a lasting social impact.
- To enhance the employability skills such as aptitude, quantitative, verbal and reasoning ability.
- Make students aware of the various available career options and help them identify their career goals and profession.

The Context

Since the industry is continuously evolving and technology is ever emerging, mere learning the curriculum is insufficient. There is often a mismatch between what is learnt in the institution and the industrial expectations. In order to bridge this gap and make students industry-ready, much emphasis is given for teaching content beyond the regular curriculum which includes, pursuing online courses (both students and staff) from reputed international institutions, offering branch specific value added courses in tie up with industries and providing hands-on placement training.

Practice

The management of Narayanaguru College of Engineering (NGCE) sponsors and motivates all the teachers to pursue at least one online course from a globally top ranked university in each semester to update themselves in technology and practices which are futuristic. In addition, students are also encouraged to complete online courses through various portals like NPTEL.

Specialized value added courses are conducted for students by industry and in-house experts which has resulted in our students submitting innovative projects during Science Day and Engineers' Day celebrations.

A well designed 45 hour training module specifically suited, keeping in mind the competencies of our students is used to train students and developing their skills in aptitude, reasoning, technical, communication and soft skills. All second year, pre-final and final year students take skill test which helps them to practice challenges and programming tests. Besides, our institution being collaborated with various technical industries, we constantly receives technical advice and inputs from its industry experts which is

used in developing an effective training methodology for placements.

Evidence of Success

The department in our college encouraged to participate in various competitive examination to face the academic challenges. Smart India Hackathon Programming Contest is to improve the programming skills and logical ability of the students. This has resulted in students getting placed in companies like Schneider Electric India Private Limited, Leadpro Consultancy Pvt Ltd, Chennai, Tech Mahindra Pvt Ltd, Data Logics, Hexaware Technologies, Sutherland etc. Students have also pursued online courses on Python Programming with Machine Learning, Android, Advanced Java Script, SQL, Amazon Web Services from prominent global universities which has increased their placement prospects. Etc. So far 2 EEE students and 2 ECE students have successfully been placed in the company. As a result, students from various departments have obtained various certification courses.

Problems Encountered and Resources Required

Being affiliated to a university, students are required to follow the traditional instructional method of learning where exams are given much importance. This makes students lose interest in pursuing online and other value added courses. Owing to time constraints, they also find it difficult to balance between regular academic work and co-curricular & placement activities. To solve this, all the computer centres, research labs and the library are kept open beyond the working hours and on select holidays for students to complete their courses and projects.

As value added courses could not be incorporated within the regular academic calendar, such courses were planned during the semester holidays which enabled students to enroll and attend the same. When faced with difficulty in bringing external trainers to college, the faculty of NGCE were encouraged to get trained by attending such courses (for which they are sponsored) and disseminate the knowledge gained to our students.

Best Practice IV

Title of the Practice: Student mentoring & advisory system

Objectives of the Practice

- To foster healthy and positive professional relationships between students and teachers.
- To identify students academic needs and help them to acquire strong foundational knowledge in Engineering, Science and Technology.
- To nurture the students creative minds and help them do innovative projects with social relevance as nation builders.
- To help students identify their areas of interest and groom them to achieve their career goals.
- To cultivate moral values and inculcate healthy learning habits that will make them develop as an informed, skilled and ethical professional.

The Context

Our college receives many students from rural areas, economically weaker sections, students from vernacular medium at their school level and from varied social backgrounds. They find it hard to cope with the demands of Engineering education which is largely in English. Their transition from school to college needs help, support and proper nurturing in order to adapt to the new learning environment. Besides, most students lack the knowledge of various career options available on completing engineering. To guide them in matters of higher studies, career goals and job opportunities, a continuous monitoring and mentoring system has been established.

Practice

Based on experience and expertise, suitable mentors are identified to whom mentees are allotted in a

ratio of 1:20. Mentors are duly assisted by other faculty members in providing individual care, counselling and also in monitoring their academic progress. Mentors maintain individual mentee reports containing details of their counselling, medical and academic history.

To enhance students' co-curricular and extracurricular skills, suitable training programmes, online courses, internship opportunities, project and paper presentation events, sports and cultural competitions are identified by the mentors. The students are motivated to participate in such programmes based on their diverse interests.

Utmost importance is given for collaborative learning. Peer learning is practised in class rooms where bright students collaborate with slow learners (in the ratio of 2:7) to ensure effective learning.

To inculcate decision making and leadership skills, students are entrusted with various responsibilities like Class Committee Member, Project Coordinators, Placement Coordinators, and Student Representatives etc.

A transparent online feedback system accessible to both faculty and students is practiced where students can express their expectations and difficulties in learning. In addition to this, mentors also arrange for class committee meetings thrice a semester where both the faculty and students representatives come together to discuss progress of classes, syllabus coverage, academic updates, class performance in tests, need for improvement etc. mentors also arrange for special classes for slow learners in consultation with the respective subject faculty.

Evidence of Success

Our mentoring system (1:20 ratio) has ensured that individual care and attention is given to all students in the class. Students from the vernacular medium, who need language training, are identified in the first year itself and communication skills classes are arranged for them. They are encouraged to do 5 minute talks on topics of their choice to improve their presentation skills and confidence and even get placed in companies. Students were identified for guidance and counselling in the first year itself which help students to prepare for placement.

Problems Encountered and Resources Required

Getting students of diverse interests and backgrounds to involve in the academic practice was an initial challenge. Moreover trying to create an interest in students to participate in curricular, co-curricular and extracurricular events was a problem which had to be addressed through proper mentoring and counselling.

Many students hesitated to shoulder responsibilities. Major challenges were faced while identifying the right person for the right task and bringing students out of their shells. Students' absenteeism also had to be sorted out through attendance monitoring system. Arranging coaching classes for slow learners to help them improve their academic performance was a continuous issue. A proper schedule in line with the faculty and student availability had to be planned and executed while taking into consideration the time constraints. Mobile intimations were used to inform the parents about the regular happenings and upcoming events in the college

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

NGCE distinguishes itself from peer institutions by offering an affordable, highly personalized, Student centered education to diverse students NCE college engineering established in the year 2002 is one among top colleges in Kanyakumari District. The college is situated in 10 acre campus and is permanently affiliated to ANNA University. The college is conducting 6 undergraduate and 6 post graduate programs. NGCE has state of the art infrastructure, creating an environment for progressive learning and development. We have well equipped classrooms and laboratories to cater for the academic needs of the students and labs /Seminar halls with ICT facilities. In labs and Clasrooms LAN facilities are available. All departments are provided with portable LCD projectors.

NCE College of engineering have well equipped laboratories as per the AICTE requirements. Each lab is handled by one faculty supported by a co-faculty. Also, every lab has a lab instructors/ technical assistant, who provides constant support and ensures maintenance of the laboratories Apart from regular labs, we have R&D Labs, industry tie up laboratories Infosys campus connect lab, etc. in order to fill the gap between the curriculum and industry. IT-help desk in our college is available all the time to help with maintenance and installation process in the lab. Every equipment in the lab is barcoded and the records of the same are maintained. Systems are protected with antivirus software.

All computers are always maintained in working condition .All equipment are always checked for wear

and tear and replaced with new or repaired one every semester. Labs are equipped with sufficient hardware and licensed software to run program specific curriculum and off program curriculum. Enough number of personal computers are available for the smooth conduction of the lab. All the software labs are air conditioned. Safety instructions, safety tools including first aid box are provided in all the labs. The number and area of the class rooms and labs are as per the AICTE norms.

Sports in NGCE

Large playing fields support a wide variety of games, such as Cricket, Football, Volleyball, Hockey and Kho-Kho. There are also dedicated spaces for Indoor sport, including Table Tennis, Badminton, Weight Lifting, Power Lifting, Chess, and Caroms. Our Outdoor facilities include a and courts for Basketball, Volleyball, Handball, and Throw Ball. NGCE also has a large indoor gymnasium facility with areas marked for Yoga, Weight Training and Cardio exercises.

Central Library

The Central Library is spread over 3000 sqft, and houses more than 28,000 books and other documents. The Library subscribes to more than 30 national and international journals. It is a fully automated Library and one can search the Library database using the college network. The Library has a Circulation section, a Reference section and a spacious Reading room. The Digital Library section houses a good number of computers for browsing, accessing e-journals, e-books and for searching the Library database using OPAC.

Library Automation

Library is fully automated and Dolphin is the software used for Circulation, Procurement, OPAC and Project Reports. All the library documents are bar-coded and books are issued to users by reading the barcode of the document.

Accommodation

NGCE has separate hostels for boys and girls with a range of rooms and a variety of services that make living on campus safe, comfortable and affordable.

Residents enjoy the support of committed and caring wardens who are available 24X7. Supporting infrastructure includes a dedicated cafeteria, laundry services, gym, 24-hour power supply, STD & ISD facilities, transport, housekeeping and medical care.

Canteen and Cafe

There is a hygienic, multi-cuisine vegetarian canteen for both resident students and day scholars. A leading café chain has set up its operations on campus to offer variety with coffees, sandwiches, pastries, etc.

Security and Safety

NGCE has a large team of professionally-trained security personnel patrolling and guarding the campus 24X7 to ensure safety of students, staff and infrastructure. The complete campus is under CCTV

surveillance.

Trasportation

NGCE provides faculty and students with bus services from all parts of the city to the Institute. The buses are comfortable, safe and economical, being subsidised by the Institute.

Medical Centre

Medical facilities are available on campus through a dispensary staffed by a Medical Officer & Nurse.

File Description	Document
Link for Additional Information	View Document

5. CONCLUSION

Additional Information :

Additional Information:

At outset, the institution will strive hard towards providing/establishing:

- A practice of quality assurance to regularly address, monitor and evaluate the quality of education offered to students.
- A practice to promote effective teaching-learning methods for the benefit of both students and teachers and make the institution a better place of excellence in engineering science and technology.
- Best standards and practices of good governance, shall be put in place to bring in transparency of operations and improve credibility at all levels.
- Skills among students are developed through Interactive Teaching–Learning Process.
- To implement corporate exposure by Industry Internship and project work and thus make them ready to get into industry soon after the completion of their course.
- Research work among staff members shall be encouraged in-order to update their knowledge.
- Well equipped Laboratory facilities shall be provided in all the departments.
- Reputed Industries shall be invited for campus placements.
- **Quality is our Motto:** NGCE is committed to provide educational opportunities in engineering

disciplines by:

- Exposing students to the latest technologies
- Maintaining healthy competitive environment
- Developing confidence and explore potential talent for meritorious leadership
- Continually improving the effectiveness of QMs (Qualitative Metrics)
- Complying with applicable statutory requirements
- The following are our credentials
- A few students stood university toppers in university Sem exams.

Concluding Remarks :

Concluding Remarks :

- Narayanaguru College of Engineering stands as a synonym for quality education among the surrounding colleges of villavankode taluk of Kanyakumari District. It was established in 2002 to impart quality education to all the sections of society. Students from surrounding towns and villages join the institute to pursue their education. The management practices transparency and involves everyone in the decision making process and institutional building. The students and faculty maintain excellent rapport resulting in a conducive learning ambience in the campus. The vision of the Institute is to become a leading institution in Engineering and Management education and all efforts are being made to achieve the vision in the near future.
- E.Notes of daily classes emailed to every Student • Highly qualified talented and experienced faculty • Well furnished Computer Labs and fully equipped laboratories for all trades • Well stacked Library • Most Modern Labs – Machine Shop, CNC, Electrical machines, Electronics, Communication, Microprocessor, Digital electronics, Microwave, Radio Frequency and Optical communication and VLSI Design Labs • Separate Hostels for Boys and Girls and very tasty & hygienic food • Cool salubrious, resort like location in a lush green rubber estate • Individual care and attention for each student • Our earlier batch students got placed in companies like IBM, Infosys, Wipro, TCS, US Technologies , Indian Navy, ISRO and similar organizations.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																				
1.1.2	<p>Number of certificate/diploma program introduced during the last five years</p> <p>1.1.2.1. Number of certificate/diploma programs introduced year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>13</td> <td>8</td> <td>11</td> <td>12</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>13</td> <td>7</td> <td>9</td> <td>12</td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15	9	13	8	11	12	2018-19	2017-18	2016-17	2015-16	2014-15	9	13	7	9	12
2018-19	2017-18	2016-17	2015-16	2014-15																	
9	13	8	11	12																	
2018-19	2017-18	2016-17	2015-16	2014-15																	
9	13	7	9	12																	
1.1.3	<p>Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years</p> <p>1.1.3.1. Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> </tr> </tbody> </table> <p>Remark : Nomination letter of Dr. Robert Raja Singh for 2015-16 , 2016-17 , 2017-18 and 2018-19 not provide by HEI.</p>	2018-19	2017-18	2016-17	2015-16	2014-15	1	1	1	1	1	2018-19	2017-18	2016-17	2015-16	2014-15	0	0	0	0	1
2018-19	2017-18	2016-17	2015-16	2014-15																	
1	1	1	1	1																	
2018-19	2017-18	2016-17	2015-16	2014-15																	
0	0	0	0	1																	
1.2.3	<p>Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years</p> <p>1.2.3.1. Number of students enrolled in subject related Certificate or Diploma or Add-on programs year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>280</td> <td>245</td> <td>346</td> <td>372</td> <td>436</td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15	280	245	346	372	436										
2018-19	2017-18	2016-17	2015-16	2014-15																	
280	245	346	372	436																	

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
236	245	346	372	436

Remark : Number of students enrolled in subject related Certificate or Diploma or Add-on programs is more than number of students hence DVV has made the changes as per admission report provided in 2.1

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

1.3.2.1. Number of value-added courses imparting transferable and life skills offered during the last five years

Answer before DVV Verification : 10

Answer after DVV Verification: 08

1.3.3 Percentage of students undertaking field projects / internships

1.3.3.1. Number of students undertaking field projects or internships

Answer before DVV Verification : 280

Answer after DVV Verification: 279

2.1.1 Average percentage of students from other States and Countries during the last five years

2.1.1.1. Number of students from other states and countries year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
93	121	129	137	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
93	101	129	137	0

Remark : DVV has made the changes as per pro-rata basis of provided domicile/ Previous degree/ Matriculation / HSC certificate for 2017-18 by HEI. Domicile certificate of ABHIN SURESH for 2017-18 not provide by HEI.

2.1.2 Average Enrollment percentage

(Average of last five years)

2.1.2.1. Number of students admitted year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15

102	151	193	239	0
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Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
113	167	204	248	0

2.1.2.2. Number of sanctioned seats year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
685	441	717	655	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
685	441	717	655	0

Remark : DVV has made the changes as per provided list of first year admitted students by HEI.

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

2.1.3.1. Number of actual students admitted from the reserved categories year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
1	4	43	24	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	3	42	23	0

Remark : Provided report has not reflect students admitted from the reserved categories.

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

2.4.2.1. Number of full time teachers with Ph.D. year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
12	12	14	11	10

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
9	6	7	11	3

Remark : DVV has made the changes as per pro-rata basis of provided Ph.D certificate of Dr.G.Sidhardhan for 2014-15 by HEI. DVV has made the changes as per pro-rata basis of provided Ph.D certificate of Dr. Nedunchezian.T for 2016-17 and Dr.Ajitha priyadarsini.S for 2017-18 in (3.3.3) by HEI. Ph.D certificate of Dr. S.R. Suresh for the year 2018-19 not provide by HEI.

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

2.4.5.1. Number of full time teachers from other states year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
33	37	34	26	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
33	30	34	26	0

Remark : DVV has made the changes as per pro-rata basis of provided domicile certificate for 2016-17 by HEI. Domicile certificate of ANUJA GOWRY for 2016-17 not provide by HEI.

2.6.3 Average pass percentage of Students

2.6.3.1. Total number of final year students who passed the examination conducted by Institution.

Answer before DVV Verification : 128

Answer after DVV Verification: 130

2.6.3.2. Total number of final year students who appeared for the examination conducted by the institution

Answer before DVV Verification : 226

Answer after DVV Verification: 228

Remark : DVV made the changes as per report of total number of pass students and total number of appeared students for 2018-19 provided by HEI.

3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

3.1.3.1. Number of research projects funded by government and non-government agencies during the last five years

Answer before DVV Verification : 0

Answer after DVV Verification: 0

3.1.3.2. Number of full time teachers worked in the institution during the last 5 years

Answer before DVV Verification : 165

Answer after DVV Verification: 150

Remark : Relevant documents not provided by HEI for the year 2014-15, 2015-16, 2016-17, 2017-18 and 2018-19.

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

3.2.2.1. Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
26	24	10	12	18

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
13	14	12	16	16

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years

3.3.4.1. Number of research papers in the Journals notified on UGC website during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
18	3	6	4	2

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
18	3	5	3	2

Remark : Research papers of A critical review of job demand, job resources, and skill discretion to reduce occupational stress of IT professionals in Technopark Trivandrum, Page no 207 for 2015-16 Time value of money(T.V.M) application for evaluating the project under conventional and precast technology in construction Industry, Page 340 for 2016-17 not provide by HEI.

3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

3.3.5.1. Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
2	9	4	29	2

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
2	9	3	28	0

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

3.4.3.1. Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
671	718	552	730	634

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
4	4	5	4	5

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

3.4.4.1. Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
400	500	300	492	255

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	100	50

Remark : DVV has made the changes as per report number of students participating in ORGAN DONATION AWARENESS PROGRAMME for 2014-15, HELMET AWARENESS RALLY, ROAD SAFETY AWARENESS PROGRAMME for 2015-16 provided by HEI. DVV has not

considered those SWACHH BHARAT CLEANING PROGRAMME conducted by NSS Unit. Provided report has not reflect participated students of ROAD SAFETY AWARENESS.

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

3.5.1.1. Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
60	18	14	5	5

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
23	13	13	3	4

Remark : DVV has made the changes as per pro-rata basis of provided linkages report by HEI. Linkage report for the year 2017-18 not provide by HEI.

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

3.5.2.1. Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years (only functional MoUs with ongoing activities to be considered)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
10	3	1	1	0

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
3	1	1	0	0

Remark : DVV has made the changes as per pro-rata basis of provided report of MoUs by HEI.. DVV has not considered report of MoUs for 2019-20. Report of MoUs for 2015-16 not provide by HEI.

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

4.1.4.1. Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
474	539	566	774	1000

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
68.06	89.92	404.51	432.12	24.61

Remark : DVV has made the changes as per addition of computer lab Equipment, electric fittings, fire safety Equipment, furniture lab Equipment, furniture & fitting, catering Equipment, electric Equipment, electronic Equipment, office Equipment, HT connection in Schedule of Fixed Assets duly certified by CA.

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

4.2.4.1. Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
6	10	5	7	41

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
2.55	2.36	3.31	8.13	2.05

Remark : DVV has made the changes as per addition of Library in books , library Schedule of Fixed Assets duly certified by CA.

4.2.6 Percentage per day usage of library by teachers and students

4.2.6.1. Average number of teachers and students using library per day over last one year

Answer before DVV Verification : 1708

Answer after DVV Verification: 27

Remark : DVV has made the changes as per average of teacher and students using library per day on 18/02/2019, 19/02/2019, 21/02/2019 and 22/02/2019. Library logbook on 20/02/2019 not provide by HEI.

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

4.4.1.1. Expenditure incurred on maintenance of physical facilities and academic support

facilities excluding salary component year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
18	13	52	29	20

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
17.60	45.78	0	65.07	72.40

Remark : DVV has made the changes as per Expenditure on Repair and Maintenance building, Repair and Maintenance car, Repair and Maintenance college buses, Repair and Maintenance generator, Repair and Maintenance omni van duly signed by CA. Audited statement on maintenance of physical facilities and academic support facilities for 2016-17 not provide by HEI.

5.1.1 Average percentage of students benefited by scholarships and freships provided by the Government during the last five years

5.1.1.1. Number of students benefited by scholarships and freships provided by the Government year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
110	105	148	208	260

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
109	104	147	207	259

Remark : DVV has not consider unsigned document.

5.1.2 Average percentage of students benefited by scholarships, freships, etc. provided by the institution besides government schemes during the last five years

5.1.2.1. Total number of students benefited by scholarships, freships, etc provided by the institution besides government schemes year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
110	105	148	208	260

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15

109	104	147	207	259
-----	-----	-----	-----	-----

Remark : DVV has not consider unsigned document.

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

5.1.4.1. Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
188	385	228	388	343

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
188	362	228	388	343

Remark : Number of students benefited by guidance for competitive examinations and career counselling is more than number of student provided in 2.1 hence DVV has made the changes as per admission report of student provided in 2.1

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) during the last five years.

5.3.1.1. 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-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	1	1	1

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	2	0	0

Remark : DVV has not considered certificate of excellence and recognition.

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

6.3.2.1. Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
53	45	49	42	43

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
52	11	48	41	11

Remark : DVV has made the changes as per pro-rata basis of provided letter of indicating financial assistance to teachers by HEI. letter of indicating financial assistance to teachers for 2015-16, 2016-17 not provide by HEI. DVV has not considered letter of indicating financial assistance to teachers for 2019-20.

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

7.1.1.1. Number of gender equity promotion programs organized by the institution year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
3	3	3	3	3

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
2	3	1	3	2

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

7.1.8.1. Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
3	3	4	3	4

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
0	0	0	0	0

Remark : Provide Audited statement has not green initiatives and waste management for 2014-15,

2015-16, 2017-18 and 2018-19. Audited statement on green initiatives and waste management for 2016-17 not provide by HEI.

7.1.9	<p>Differently abled (Divyangjan) Friendliness Resources available in the institution:</p> <ol style="list-style-type: none"> 1. Physical facilities 2. Provision for lift 3. Ramp / Rails 4. Braille Software/facilities 5. Rest Rooms 6. Scribes for examination 7. Special skill development for differently abled students 8. Any other similar facility (Specify) <p>Answer before DVV Verification : C. At least 4 of the above Answer After DVV Verification: D. At least 2 of the above Remark : DVV has made the changes as per photos of Ramp and Rest Room provided by HEI.</p>																				
7.1.10	<p>Number of Specific initiatives to address locational advantages and disadvantages during the last five years 7.1.10.1. Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="304 1025 1046 1160"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>3</td> <td>5</td> <td>8</td> <td>4</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 1238 1046 1373"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1</td> <td>0</td> <td>2</td> <td>0</td> </tr> </tbody> </table> <p>Remark : DVV has not considered ENGINEERS DAY, WORLD ENVIRONMENT DAY, NATIONAL SCIENCE DAY, INTERNATIONAL WOMEN’S DAY, NATIONAL YOUTH DAY, NATIONAL EDUCATION DAY.</p>	2018-19	2017-18	2016-17	2015-16	2014-15	5	3	5	8	4	2018-19	2017-18	2016-17	2015-16	2014-15	0	1	0	2	0
2018-19	2017-18	2016-17	2015-16	2014-15																	
5	3	5	8	4																	
2018-19	2017-18	2016-17	2015-16	2014-15																	
0	1	0	2	0																	
7.1.11	<p>Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)</p> <p>7.1.11.1. Number of initiatives taken to engage with and contribute to local community year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1" data-bbox="304 1809 1046 1944"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>2</td> <td>3</td> <td>4</td> <td>2</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1" data-bbox="304 2022 1046 2089"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15	3	2	3	4	2	2018-19	2017-18	2016-17	2015-16	2014-15					
2018-19	2017-18	2016-17	2015-16	2014-15																	
3	2	3	4	2																	
2018-19	2017-18	2016-17	2015-16	2014-15																	

2	0	3	2	4
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Remark : DVV has not considered INTERNATIONAL YOGA DAY for 2016-17 Report of initiatives taken to engage with and contribute to local community for 2018-19 not provide by HEI.

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

7.1.17.1. Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
4	4	3	2	1

Answer After DVV Verification :

2018-19	2017-18	2016-17	2015-16	2014-15
2	1	3	0	0

Remark : DVV has made the changes as per report of INTERNATIONAL ANTI - CORRUPTION DAY for 2016-17 provided by HEI.

2.Extended Profile Deviations

ID	Extended Questions																				
1.1	<p>Number of students year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>600</td> <td>537</td> <td>881</td> <td>1303</td> <td>1639</td> </tr> </tbody> </table> <p>Answer After DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td>236</td> <td>362</td> <td>740</td> <td>822</td> <td>1638</td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15	600	537	881	1303	1639	2018-19	2017-18	2016-17	2015-16	2014-15	236	362	740	822	1638
2018-19	2017-18	2016-17	2015-16	2014-15																	
600	537	881	1303	1639																	
2018-19	2017-18	2016-17	2015-16	2014-15																	
236	362	740	822	1638																	
1.2	<p>Number of seats earmarked for reserved category as per GOI/State Govt rule year-wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2018-19</th> <th>2017-18</th> <th>2016-17</th> <th>2015-16</th> <th>2014-15</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	2018-19	2017-18	2016-17	2015-16	2014-15															
2018-19	2017-18	2016-17	2015-16	2014-15																	

179	128	179	147	1
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Answer After DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
178	128	179	147	1

2.1 Number of full time teachers year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
144	151	123	139	151

Answer After DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
143	151	123	139	151

2.2 Number of sanctioned posts year-wise during the last five years

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
140	145	121	119	1

Answer After DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
144	151	123	139	151

3.2 Total Expenditure excluding salary year-wise during the last five years (INR in Lakhs)

Answer before DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
474	539	566	774	1000

Answer After DVV Verification:

2018-19	2017-18	2016-17	2015-16	2014-15
474.37	478.45	566.77	774.60	1066.16

3.3 Number of computers

Answer before DVV Verification : 750

Answer after DVV Verification : 0