



Yearly Status Report - 2019-2020

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	GNANAMANI COLLEGE OF TECHNOLOGY
Name of the head of the Institution	T.K.Kannan
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	04286-7598293888
Mobile no.	9944492300
Registered Email	principal@gct.org.in
Alternate Email	info@gct.org.in
Address	NH-7 A.K.SAMUTHIRAM, PACHAL POST, NAMAKAL.
City/Town	Namakkal
State/UT	Tamil Nadu
Pincode	637018

2. Institutional Status					
Affiliated / Constituent		Affiliated			
Type of Institution		Co-education			
Location		Rural			
Financial Status		Self financed			
Name of the IQAC co-ordinator/Director		Dr .R .C .KARPAGALAKSHMI			
Phone no/Alternate Phone no.		07598293999			
Mobile no.		9442895577			
Registered Email		iqac@gct.org.in			
Alternate Email		info@gct.org.in			
3. Website Address					
Web-link of the AQAR: (Previous Academic Year)		http://gct.org.in/gct_new/AOAR/AOAR_18-19.pdf			
4. Whether Academic Calendar prepared during the year		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		http://gct.org.in/gct_new/AOAR1920/Academic_Calendar_19-20.pdf			
5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	B	2.75	2015	14-Sep-2015	14-Sep-2020
6. Date of Establishment of IQAC			07-Aug-2014		
7. Internal Quality Assurance System					
Quality initiatives by IQAC during the year for promoting quality culture					
Item /Title of the quality initiative by IQAC		Date & Duration		Number of participants/ beneficiaries	

Orientation program on	04-Oct-2019 1	215
Motivational program for first year students	01-Oct-2019 2	830
Entrepreneurship Awareness Camp In association with EDII, Ahmedabad sponsored by the NSTEDB, Ministry of Science and Technology, Govt. of India	25-Sep-2019 3	101
Inauguration of Institution Innovation Council (IIC) under MHRD's Innovation Cell	11-Sep-2019 1	2398
Motivation Programme on 'Learn to Learn' for first year BE-Engineering Students	26-Aug-2019 1	830
National Board of Accreditation (NBA) peer team visit for CSE, ECE, EEE and Mechanical departments	19-Jul-2019 3	2021
Student Induction Program as Bridge course	13-Jul-2019 36	340
Anna University recognized research center renewal for the department of EEE	12-Jul-2019 1	389
Inauguration of Center of Excellence	25-Jun-2019 1	2398
Workshop on Robotics Process Automation by Center of Excellence,	26-Jun-2019 3	37
View File		

8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
GNANAMANI COLLEGE OF TECHNOLOGY	Skill and Personality development Program for SC/ST STUDENTS	AICTE	2019 1095	1269408
GNANAMANI COLLEGE OF TECHNOLOGY	Modernization of Manufacturing Technology	AICTE	2020 730	1253334

Laboratory

[View File](#)

9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

[View File](#)

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

- Inauguration of Center of Excellence "BOT Lab" by Automation Anywhere Inc, USA. 3 days workshop on Robotics Process Automation was conducted. Established an Institution Innovation Council (IIC) under MHRDs Innovation Cell
- National Board of Accreditation (NBA) peer team visit for the department of CSE, ECE, EEE and Mechanical and approved as NBA accredited.
- Approved as Skill Personality Development Programme Centre for SC/ST students (SPDC), by Institutional Development Cell (IDC), All India Council for Technical Education.
- Participated in AISHE (All India Survey on Higher Education), Signed Memorandum of Understanding with StudyMonk. Inc for providing Incubation Support, to train the students and for further Research and Development activities.
- Participated in Institutions under Unnat Bharat Abhiyan to connect Higher Educational Institutions to Villages for transfer knowledge to enrich rural India by adopting five villages.
- Participated in AICTE Chhatra Vishwakarma Awards 2019 where one team has been Selected and Participated in Regional Convention of 3rd AICTE Chhatra Vishwakarma Awards 2019 in Southern Region.
- Conducted and provided infrastructure to conduct India Skill 2020 competition in collaboration with District Skill Training Office and Department of Employment and training, Chennai.
- Organized one day HR connect under the title "How to Crack the core Job" for Pre Final Year students. More number of bridge courses and vocational courses would also be offered to supplement the regular courses so as to enable the students to secure jobs soon after the completion of their courses.
- Quality Enhancement through Innovations in Teaching Methodology. Conducted 5 Days online FDP on "Emerging Effective Digital Tools for Teaching Pedagogy".

[View File](#)

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

Plan of Action	Achievements/Outcomes
IQAC Audit	Conducted periodic audits of academic, administrative and research activities under the steering committee of the Management to assess quality of the curriculum based teaching - learning process and to ensure the adequacy, timely maintenance and smooth functioning of the support structure.
NSS / YRC Activities	National Service Scheme (NSS) and Youth Red Cross (YRC) have been functioning as a regular feature in our college campus, organizing blood donation camps, free eye camps and other social awareness programmes to develop the student's personality through community oriented services. • Conducted an Awareness program on "Corona Virus" on 10.02.2020 through YRC cell where 126 were participated. • NSS programme officer attended the NSS PO Meeting on 06.03.2020 at Anna University, Regional Campus, Coimbatore. • YRC and NSS units jointly organized a life skill orientation program on Unave Marunthu on 11.03.2020 for the benefit of our students and faculty.
Quality Enhancement Activities	IQAC focuses on quality enrichment of teaching, learning, evaluation, research, extension and consultancy opportunities by organizing National level Conference, Workshops, Seminars, Symposiums, Guest Lectures and FDP by the respective departments. • Conducted a National level Technical Symposium GNAN CHEMP 2020 on 14.03.2020 for First Year Students to improve their presentation and communication skills. • Conducted and provided infrastructure to organize India Skill 2020 competition in collaboration with District Skill Training Office and Department of Employment and training, Chennai on 20.01.2020, 21.01.2020, 23.01.2020, 28.01.2020, 29.01.2020 and 31.01.2020. • Conducted Internal Hackathon for Smart India Hackathon 2020 (national initiative launched by AICTE and MHRD) on 07.02.2020. Totally 23 teams were participated and presented ideas in hardware and software solutions. • Conducted an Orientation program on "NAAC Accreditation Process" on 04.10.2019 for the faculty members. • Participated in AICTE-Chhatra Vishwakarma Awards

	<p>2019 where one team has been selected and participated in Regional Convention of 3rd AICTE-Chhatra Vishwakarma Awards 2019 in Southern Region. • Participated in AISHE (All India Survey on Higher Education) and uploaded on 04.02.2020. • Conducted a Workshop on Fire & Safety on 25.02.2020. • Conducted a Webinar on Radiation Safety in Healthcare on 11.06.2020 by ECE department.</p>
<p>Research and Development Entrepreneurship Development Cell</p>	<p>Conducted entrepreneurship awareness camps, workshops, Value Added Courses, guest lectures and motivating the students to become a successful entrepreneur in all aspects. • Organized an Entrepreneurship Awareness Camp In association with EDII, Ahmedabad sponsored by the NSTEDB, Ministry of Science and Technology, Govt. of India from 25.09.2019 to 27.09.2019. • Conducted a Workshop on Entrepreneurship as Navigating the Future - IGNITE 2K19 on 12.10.2019 where 152 students were participated. • Conducted a Workshop on "Retail sales" for the MBA Students as a part of Gnan Diwali Blast 2k19 on 22.10.2019 & 23.10.2019. • Participated in Industrial Motivational Campaign for youth (Prospective Entrepreneurs) in association with Ramasamy Chinnammal trust, Coimbatore supported by MSME and EDII, Ahmedabad from 11.3.2020 to 14.3.2020. • Participated in Institutions under Unnat Bharat Abhiyan to connect Higher Educational Institutions to Villages for transfer knowledge to enrich rural India by adopting five villages.</p>
<p>Research and Development</p>	<p>R&D cell facilitates and encourages research culture among the faculty and students through publishing research papers in journals, Patent publications, Conferences and to undertake major and minor research projects from both Government and Non-Governmental funding agencies. • Anna University recognized research center renewal was done on 12.07.2019 for the department of EEE to do collaborative research programme with Anna University, Chennai. • Organized Workshop on Research Methodology - Ideation to Development on 29.11.2019 through IPR cell. • Signed Memorandum of Understanding with StudyMonk.Inc on 02.03.2020 for providing Incubation</p>

	Support, to train the students and for further Research and Development activities.
National Board of Accreditation	NBA peer team visited campus from 19.07.2019 to 21.07.2019 for accreditation process of the departments of CSE, ECE, EEE and Mechanical and got approval.
Planning and Monitoring Committee	Planning for the quality development of college infrastructure, upgrading of the laboratory, Research & Development and Institute Industry Interaction etc.
Academic Council Meeting	Academic Council Meeting was conducted on 28.06.2019 and the minutes of the meeting were recorded. The Coordinator of Academic Council elaborated about the plan for the various academic activities of the Institution for the Academic Year 2019-2020.
Enterprise Resource Planning (ERP)	ERP application software is used to track the Academic performance and to ensure the quality such as student data base, attendance entry, internal mark entry, mentoring details and other activities.
Mentoring System	Students are encouraged to improve their performance through mentoring system. Each faculty member, as Mentor, is allocated 15 to 20 students under their counseling. The Mentors sort out the personal issues, academic and nonacademic problems of their Mentees and provide counseling and guidance.
View File	

14. Whether AQAR was placed before statutory body ?	Yes
--	-----

Name of Statutory Body	Meeting Date
Governing Council	16-May-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
--	-----

Date of Visit	19-Jul-2019
---------------	-------------

16. Whether institutional data submitted to AISHE:	Yes
---	-----

Year of Submission	2020
--------------------	------

Date of Submission	04-Feb-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks. Utilization of financial resources, income and expenditure statement, securing additional fund and utilization, funding projects, workshop, conference and FDP. Library issue of books and return of books by e-governance. One of the wide spread communication with respect to monitor students attendance and academic performance information to parents through SMS . Student's absentees report is generated day wise and updated for corrective action. Maintaining of students profile and records for the consecutive years during course of study. Mentoring details of students are uploaded for effective follow up. Keeping minimum inventory on consumables and other items based on store stock and material requisition. Gate pass system is used to maintain the visitors details. Transport management software is used to maintain the transport details. The current events and notice are displayed in our website. The ERP system is effectively used by faculties, Head of the Departments, Principal and Management.</p>

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

The college is affiliated to Anna University, Chennai. Detailed curriculum and academic schedule of the University are followed. Two IQAC meetings (Internal Quality Assurance Cell) are conducted in each semester, in which the steps for effective implementation of the curriculum are planned and the gap if any in the curriculum is identified and approved. The details regarding the gaps identified are communicated to the University through a letter by the Head of the Institution. The gap is filled by conducting various seminars, workshops etc. The faculty members are advised to prepare their action plans accordingly. (Feedback, stake holders, Advisory meeting) to identify the gap. The Department Assessment Committee (DAC) members analyze the curriculum gap if any based on the mapping of COs with POs & PSOs of all subjects and also considering the

feedbacks received from internal and external stakeholders. Identified curricular gaps are referred to the Department Advisory Committee and then its suggestions and guidelines are followed to implement the content beyond syllabus to bridge the gap by the department in order to attain POs and PSOs. The institution calendar is framed with reference to the Anna University Curriculum and IQAC. The department wise calendar is framed based on the institution calendar. The time table is prepared for all the classes and the allocation of subjects for all the courses in the respective program is planned based on the regulation of Anna University. Classes are engaged as per the timetable. Lesson plan, Course file, Delivery plan are prepared based on Outcome Based Education (OBE) by the faculty of respective programs. The course file includes the syllabus, course objectives, course outcomes, COs-POs mapping, and content beyond syllabus, time table, lesson plan, course materials, tutorial sheet, assignment and course completion status. The faculty members update their knowledge by attending workshops, Faculty Development Programs (FDPs), orientation programs, conferences and seminars organized by various colleges. To improve students' technical knowledge, various resource persons from industries are invited to conduct guest lectures, special talks and seminars. Various Add on Certificate Programmes are also conducted to enhance the practical knowledge of the students. In order to improve students' competency, classes on Soft skills training, Maths Aptitude etc are conducted for all the programs. Industrial visit, field visits, workshops, seminars, guest lectures, and hands on training are implemented regularly to enhance the teaching learning processes. Various curriculum related pedagogical methods are implemented by the faculty members to enhance effective teaching learning process. The study materials for each course are uploaded in Gnan Resource Centre (GRC) in which the students can download their study materials. A well-equipped Central Library with open access system and all departments have their departmental libraries too for the benefit of the students and faculty members. E-books and e-journals facilities are available for them. The college has registered for NPTEL (National Program on Technology Enhanced Learning) where students can access e-learning through online video courses for various streams.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
The Linux Programming Interfaces		05/08/2019	35	Employability Skill	At the end of the session, the student was able to Implement the Linux Programming interfaces
Machine Learning for Natural Language Processing		06/01/2020	45	Employability Skill	At the end of the session, the student was able to Implement concept of Natural Language Processing

in MI.

Data Analytics using R Programming	22/07/2019	40	Employability Skill	At the end of the session, the student was able to Implement Data Analytics using R Programming.
Land marking using advanced total station	10/07/2019	45	Employability Skill	At the end of the session, the Student was able to implement the Total Station to develop the project.
Building estimation and costing by "takeoff software"	07/08/2019	40	Entrepreneurship Skill	At the end of the session, the Student was able to implement the Estimation to develop the project.
Drafting and design using revit architecture	06/01/2020	40	Entrepreneurship Skill	At the end of the session, the student was able to Implement the Revit Architecture to develop the project
Construction scheduling by ms project, primavera	24/07/2019	35	Entrepreneurship Skill	At the end of the session, the student was able to implement the MS Project, Primavera to develop the project
SCADA Applications using LABVIEW	08/07/2019	35	Employability Skill	At the end of the session, the student was

				able to understand the graphics-based visualization of an industrial control and monitoring system.
OrCAD PSPICE Designing	26/08/2019	40	Employability Skill	At the end of the session, the student was able to understand the prototyping simple circuits and design complex systems
EMBEDDED C and its Applications in Industrial Automation	20/01/2020	35	Employability Skill	At the end of the session, the student was able to understand the basics of Embedded C programming used in industrial automation.
Solar Panel Installation , Operation and Maintenance	02/03/2020	40	Entrepreneurship Skill	At the end of the session, the student was able to understand the PV system design and sizing for use on homes, commercial building.
Training for analysis and prepare high-quality meshes using HYPERMESH	01/12/2020	40	Employability Skill	At the end of the session, the student was able to understand p

professionals
to use
Hypermesh to
manage and
receive high-
quality
meshes
efficiently
and learn to
use geometry
editing
tools for
preparing
CAD and CAE
models used
in the
meshing
process

<p>CAM processes with automation tools to suit different applications by make use of EDGECAM</p>	<p>03/09/2019</p>	<p>42</p>	<p>Employability Skill</p>	<p>At the end of the course, students become the intelligent, knowledge- based practice of capturing proven machining methods and then applying that knowledge to new parts</p>
<p>Training on multi- platform software suite for CAD, CAM, CAE, PLM 3D by using CATIA</p>	<p>03/02/2020</p>	<p>40</p>	<p>Employability Skill</p>	<p>Through this course students can able to know the CATIA is a solid modeling tool that unites the 3D parametric features with 2D tools and also addresses every design- to-manufacturing process.</p>
<p>Advanced</p>	<p>05/07/2019</p>	<p>40</p>	<p>Employability</p>	<p>At the end</p>

Structural
Analysis
using ANSYS
Work Bench

y Skill

of this
course
students
were able to
familiar in
the Ansys
Workbench
platform is
the
framework
upon which
the
industry's
broadest and
deepest
suite of
advanced
engineering
simulation
technology
is built

Introductory
Econometrics

15/07/2019

30

Employabilit
y Skill

At the end
of this
course, the
students
were able to
apply all
the
statistical
techniques
to analyze
the
relationship
between real-
world
economic
variables

Introduction
to MS office

04/09/2019

30

Employabilit
y Skill

At the end
of this
course, The
students
were able to
understand
the office
packages for
applying
their day to
day work.

Professional
Skill
Development

02/03/2020

30

Employabilit
y Skill

At the end
of this
course, the
students
were able to
exhibit
their talent
in soft
skills,

				emotional intelligence, telecommunication and presentation skills
IoT based Home Automation	08/07/2019	45	Employability Skill	At the end of this training, students learn the roles, responsibilities of an IoT Developer and ready for implementation.
Robotics-Intelligent Machining	26/08/2019	39	Employability Skill	At the end of this training, students Learn robotics by exploring the history, anatomy and intelligence of robots and test drive robots using exciting simulations
VLSI-FPGA Design and its applications	27/01/2020	42	Employability Skill	At the end of this training, students learn how to model gates and synthesize their physical layouts as well as how to validate complex hardware and software systems.
Embedded systems-Microcontroller and Embedded	09/03/2020	48	Employability Skill	At the end of this training, students learn the

Driver
Development

types of
hardware and
software
tools
available.
Also learn
the
operating
systems
required to
build
embedded
systems and
to maintain
control.

Networking
and Security
Architecture
with VMware
NSX

04/07/2019

30

Employabilit
y Skill

At the end
of the
session, the
student was
able to
Implement
Networking
and Security
Architecture
with VMware
NSX

Design
Patterns in
C# and .NET

05/08/2019

32

Employabilit
y Skill

At the end
of the
session, the
student was
able to
Implement
Design
Patterns in
C# and .NET

Learn HTML,
CSS, and
JavaScript
from Scratch

06/01/2020

35

Employabilit
y Skill

At the end
of the
session, the
student was
able to
Implement
HTML, CSS,
and
JavaScript
from Scratch
Language.

2D and 3D
Graphics
Design

03/02/2020

31

Employabilit
y Skill

At the end
of the
session, the
student was
able to
Implement 2D
and 3D
Graphics
Design using
Rasters,

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
MBA	MASTER OF BUSINESS ADMINISTRATION	01/07/2019
MCA	MASTER OF COMPUTER APPLICATION	01/07/2019
ME	APPLIED ELECTRONICS	29/01/2020
BE	MECHANICAL ENGINEERING	01/07/2019
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	01/07/2019
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	01/07/2019
BE	COMPUTER SCIENCE AND ENGINEERING	01/07/2019
BE	CIVIL ENGINEERING	01/07/2019
View File		

1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	CIVIL ENGINEERING	01/07/2019
BE	COMPUTER SCIENCE AND ENGINEERING	01/07/2019
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	01/07/2019
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	01/07/2019
BE	MECHANICAL ENGINEERING	01/07/2019
ME	COMPUTER SCIENCE AND ENGINEERING	12/09/2019
ME	APPLIED ELECTRONICS	12/09/2019
ME	VLSI DESIGN	12/09/2019
ME	EMBEDDED SYSTEM TECHNOLOGIES	12/09/2019
ME	ENGINEERING DESIGN	12/09/2019
ME	INDUSTRIAL ENGINEERING	12/09/2019
MBA	MASTER OF BUSINESS ADMINISTRATION	12/09/2019
MCA	MASTER OF COMPUTER APPLICATIONS	01/07/2019

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

	Certificate	Diploma Course
Number of Students	1094	0

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
Data Analytics tools and techniques using Python	11/09/2019	30
Web Programming using Struts and Hibernate.	09/10/2019	26
Advanced Deep Learning and Computer Vision	14/02/2020	15
Simulation of Power Electronics circuits using MATLAB	03/09/2019	20
Ownership Identification of Signaling of Multimedia Content Components	03/09/2019	51
Core idea of Industrial Inter of Things	19/08/2019	48
Querying and managing Data using SQL	20/01/2020	62
Structure Analysis of Building by ETABS	02/09/2019	24
BIM with Revit Architecture	12/08/2019	26
Steel Designing and Detailing by Tekla	22/01/2020	28
View File		

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	CIVIL ENGINEERING	116
BE	COMPUTER SCIENCE AND ENGINEERING	170
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	214
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	191
BE	MECHANICAL ENGINEERING	269
MCA	MASTER OF COMPUTER APPLICATIONS	32
MBA	MASTER OF BUSINESS ADMINISTRATION	82
View File		

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

Feedback Mechanism is a well organized system in our college for all the courses. The system of feedback collection is done 360 degree online feedback through <http://gct.Kredovoiceout.in>. Feedback are collected from students through online about the teacher's performance at the middle and the end of each semester. Feedback is also collected from the students on teaching learning process. The students are asked to respond to a feedback questionnaire with 10 questions about performance of the faculty members. The performance percentage of each faculty member is calculated with the help of the feedback collected from the students. The average of the overall feedback is calculated. If a feedback score is good, he/she will be appreciated and guided further to extend their teaching learning methods. If a faculty member score is low, he/she will be counselled by senior professors to overcome his/her lacking and also advised to attend various Faculty Development Programs, Seminars, Workshops etc. A feedback on facilities is collected from all teachers and students. The teachers and students are requested to register their feedback through online about the facilities provided to them during the course of their study period. All the feedback given by the teachers and students will be consolidated and analyzed at the end. If a particular facility is satisfactory, then that facility is maintained and improved for further utilization. In case any particular facility is not satisfactory, it will be noted as a remark and brought to the knowledge of the Principal for the further enhancement. Feedback from the employers are collected in order to gather information's regarding the interpersonal skills of students should improve to enhance their employability skills. This also helps the institution in organizing various motivational programs or crash courses regarding the professional skills development. The valuable feedback is also collected from the Alumni who play an important role in the overall development of the institution. Using these feedback, necessary actions /implementation on curriculum development, introduction of new software(s) in each program, value added course, etc are planned and executed for the benefits of the students. Feedback collected from the parents is an important inputs for a success of our institution. The feedback on the institution's infrastructure, the academic performance and discipline of their ward is collected. The feedback on the placement and training activities is also collected from the parents. Their continuous support helps the institution to excel more and glorify in the field of education.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	CIVIL	120	25	22

BE	COMPUTER SCIENCE AND ENGINEERING	120	110	105
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	120	65	57
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	120	90	87
BE	MECHANICAL ENGINEERING	120	85	80
ME	COMPUTER SCIENCE AND ENGINEERING	24	6	4
ME	APPLIED ELECTRONICS	24	2	1
ME	VLSI	24	9	6
ME	EMBEDDED SYSTEM AND TECHNOLOGY	24	10	4
ME	ENGINEERING DESIGN	24	7	0
View File				

2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	2398	53	168	42	210

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
210	210	10	56	1	10

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

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

Functions of Mentoring System Student Mentoring Online: It primarily focuses on strengthening the relationship between students and staff members. All sorts of academic grievances of students are addressed during mentoring, and measures are taken by the mentors to make them focus on their academic. ERP online tool is adopted in our institutions to effectively follow the students counselling details. All the details of the students are recorded in the portal and can be viewed by the mentors at any time for further improvement of the mentees. Student Profile: It provides us to know about the entire history of the students. A separate booklet is prepared

and issued to the students to maintain their whole records such as name, address, personal details and previous academic records. These records help the mentors to identify the students' qualities and proper guidance is given to them according to their need. Faculty members are assigned as Mentors for a group of 12 to 15 students. All the mentors maintain student's details such as parents name, addresses, contact numbers, details of their assessment marks and their progress in Curricular and Co-curricular activities. Mentors are monitoring and guiding their students continuously and counseling them to improve their attendance, individual talents / skills etc. All the mentors act as good motivators to inculcate and develop their co-curricular, extracurricular and other activities along with the regular academic works. The students are always free to approach their mentor for any type of help and guidance. Mentors are always available to attend any kind of needs arising from students end. Providing suggestion for student's issue is a vital part of the mentors and these reports are shown to parents during the parents' meet. Parents' meeting is a part of mentoring system to make connectivity between mentors and parents to provide a healthy environment to the students both inside and outside of the campus. Parents' meeting is a significant one in which parents obtain their ward's attendance and academic performance, achievements and so on. The Mentoring details are viewed by the HOD and the Principal to check the effectiveness of the system. This mentoring system in Gnanamani College of Technology is found to be very useful and effective for the development of students' community in all aspects. Motivational programs are conducted periodically to stimulate the mindset of students to get success in academic and personal life.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2451	210	1:11

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
186	210	0	51	1

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Dr.K.BHARATH	Associate Professor	ESN awards -Best Teacher
2019	Dr.K.BHARATH	Associate Professor	ESN Awards, Chennai- Best Teacher
2019	Dr.R.C. KARPAGALAKSHMI	Professor	Chhatra Vishwakarma Awards-2019
2019	Dr.R.C. KARPAGALAKSHMI	Professor	Distinguished Professor Award from Vedant Academics Bangkok Awards - 2019 in Association with Kasetsart University, Bangkok, Thailand
2019	C.THIRIVASAGAM	Assistant Professor	ESN awards -Best Teacher
2019	S.SARAVANAN	Associate Professor	ESN awards -Best Teacher

2019	M.SELVARAJ	Assistant Professor	ESN awards -Best Teacher
2019	SACHIN S RAJ	Assistant Professor	ESN awards -Best Teacher
View File			

2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	103	VIII/ IV	28/09/2020	17/10/2020
BE	104	VIII/ IV	28/09/2020	17/10/2020
BE	105	VIII/ IV	29/09/2020	17/10/2020
BE	106	VIII/ IV	29/09/2020	17/10/2020
BE	114	VIII/ IV	28/09/2020	17/10/2020
ME	401	IV / II	21/09/2020	17/10/2020
ME	405	IV / II	21/09/2020	17/10/2020
ME	408	IV / II	21/09/2020	17/10/2020
ME	409	IV / II	21/09/2020	17/10/2020
ME	419	IV / II	21/09/2020	17/10/2020
View File				

2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Our Institution policies: Our institution has adopted various reforms on continuous internal evaluation. Three Internal Assessment Test (IAT's) are conducted every semester. The internal assessment tests are conducted as per the scheduled of institutions academic calendar. The internal exam cell prepares the schedule based on the institutions academic calendar and frames format to set the question paper from the prescribed syllabus for each test. All the faculty members are asked to set the question paper based on bloom's taxonomy and each question is mapped with particular CO and the same is verified by the course coordinator and HOD. Internal exam question pattern (R2013 and R2017): Unit Test Syllabus Pattern Marks IAT I -2 UNITS - 5 Two marks, 2 Thirteen marks and 1 Fourteen marks TOTAL equal to 50 marks IAT II - 2 UNITS - 5 Two marks, 2 Thirteen marks and 1 Fourteen marks TOTAL equal to 50 marks IAT III - 5 UNITS 10 Two marks, 5 thirteen marks, 1 fifteen marks TOTAL equal to 100 marks The answer scripts are evaluated by the concerned faculty member within 3 days from the date of the concerned subject's test. During evaluation, obtained marks are mapped with CO and calculate the marks for each CO. The evaluated answer scripts are distributed to the students and the answer key for the questions are discussed in classroom. The result analysis report is submitted to the HOD Concerned. After completion of every IAT marks are uploaded in the ERP and university web portal. The remedial classes are conducted for the weak students and absentees. The relevant test progress report of each student is sent to their parents by post. Bright and average students have the option of adopting student centric evaluation like assignments, mini projects, seminars, practical sessions etc. Lab Courses: Lab courses provide students firsthand experience with course concepts and provide

the opportunity to explore the methods in their discipline. Students are given practical training in the laboratory to expertise in the respective lab. Students are also motivated to attend workshop, Industrial visit, Inplant training etc. periodically according to demand in the field. CO PO Attainment: Course outcome is framed based on the syllabus prescribed by Anna University. While formulating courses outcomes action verbs are used from Blooms Taxonomy. It helps to layout clear course outcomes. All the course outcomes are mapped with programme outcomes. Then, the programme outcomes are completed with its correlation level to show the output of the graduates. Internal/External Evaluation: Internal assessment tests are meant to encourage students to keep up with course content. Three IATs are conducted for each course in a semester. The questions are set based on Blooms Taxonomy. The quality of the questions papers are ensured by the course coordinator and the HOD. Twenty marks weightage is taken in the internal examination and eighty marks weightage is taken in external examination for CO attainment and finally PO attainment is calculated.

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

Our institution is affiliated to Anna University Chennai and therefore the detailed curriculum and the academic calendar is provided by the university, based on which the institution calendar is framed semester wise. The IQAC will review and approve the academic calendar to enhance the quality of Teaching and Learning Process. The schedule for unit completion, class committee meeting, Internal Assessment Test(IAT), parents meeting, symposium, conference, University lab and theory commencement dates ,other programs like Annual day, Sports day, Graduation day, Placement day, Alumni meet etc and details of public holidays, working days are included in the academic calendar. Based on the institution calendar, the department calendar is framed wherein the departmental activities like guest lecture, workshops, seminars, Industrial Visits, Department staff meeting, project reviews for final years, University lab and theory commencement date are included .All the staff members are asked to follow the department calendar and the copy of the same is circulated among the students and staff. All the activities mentioned in the academic and department calendar are adhered 95 approximately. There may be a 5 deviation due to some unexpected reasons such as natural calamities, sudden declaration of public holidays by Government , our institution and some unavoidable circumstances. If necessary the deviation in the unit completion can be compensated by arranging extra classes. Any other events scheduled are postponed to the next working day in case of deviations.

2.6 – Student Performance and Learning Outcomes

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

http://gct.org.in/gct_new/AQAR1920/Co_Po_Attainment.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
103	BE	CIVIL	88	85	97
104	BE	CSE	93	93	100
105	BE	EEE	109	107	98

106	BE	ECE	136	127	93
114	BE	MECHANICAL	233	226	97
401	ME	APPLIED ELECTRONICS	2	2	100
405	ME	CSE	8	8	100
419	ME	VLSI	6	6	100
409	ME	IE	6	6	100
431	ME	EST	12	12	100
View File					

2.7 – Student Satisfaction Survey

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

http://gct.org.in/gct_new/AOAR1920/Student_Survey.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	732	AICTE – MODROBS	1566667	1253334
View File				

3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Seminar on IPR and Patents	CSE	24/02/2020
Webinar on Importance and scope of IPR in academic research	CSE	29/05/2020
Seminar entitled, "Digital Marketing"	CSE	27/02/2020
Webinar on Role of An Engineer in EPC Industry	ECE	30/05/2020
Entrepreneurship Awareness Programme	EDC	12/03/2020
Webinar on Current Trends and career Opportunities for IT	MCA	02/06/2020
Research methodology	MECH	31/05/2020
Webinar on How to identify the right journal and self-indexed	MECH	03/06/2020

3.2.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Iot Based smart and Economical Irrigation System to Reduce the Power Water Consumption	Dr.R.C.Karpagal akshmi	AICTE Sothern Region	18/12/2019	ChhatraVishwaka rmaAwards-2019
Teaching	C.Thiruvassagam	ESN awards	28/09/2020	Best Teacher
Teaching	S.Saravanan	ESN awards	28/09/2020	Best Teacher
Teaching	M.Selvaraj	ESN awards	28/09/2020	Best Teacher
Research	Sachin S Raj	ESN awards	28/09/2020	Young Researcher
Teaching	Dr.K.Bharath	ESN awards	28/09/2019	Best Teacher
Iot Based smart and Economical Irrigation System to Reduce the Power Water Consumption	Bharathkumar	AICTE Sothern Region	18/12/2019	ChhatraVishwaka rmaAwards-2019
Iot Based smart and Economical Irrigation System to Reduce the Power Water Consumption	M.Yogaraj	AICTE Sothern Region	18/12/2019	ChhatraVishwaka rmaAwards-2019
Iot Based smart and Economical Irrigation System to Reduce the Power Water Consumption	R.Vignesh	AICTE Sothern Region	18/12/2019	ChhatraVishwaka rmaAwards-2019
Iot Based smart and Economical Irrigation System to Reduce the Power Water Consumption	A.Naveenkumar	AICTE Sothern Region	18/12/2019	ChhatraVishwaka rmaAwards-2019

[View File](#)

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	Gnanamani Rural Entrepreneurship And Technology	Institution	LED light installation	Energy Conservation	08/01/2020

	Incubator (GREATi)				
1	Gnanamani Rural Entrepreneurship And Technology Incubator (GREATi)	Institution	Robotic Process Automation	Robtoics	19/01/2020
1	Gnanamani Rural Entrepreneurship And Technology Incubator (GREATi)	Institution	E Cart	Green Vehicle Technology	06/01/2020
View File					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
	6000	

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

Name of the Department	Number of PhD's Awarded
CSE	2
Mechanical Engineering	2
Library	1

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CSE	3	0.33
International	EEE	3	0.90
International	MECH	14	0.8
International	ECE	1	1.61
National	MECH	12	4.6

[View File](#)

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

Department	Number of Publication
EEE	2
Mech	5
CSE	12

[View File](#)

3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
A retrieval queueing -inventory system with service option on arrival and Multiple vacations0	Kathiresan . J	Africa Statistnka	2019	0	GCT	0
An exploration of ECG signal feature selection and classification using machine learning techniques	Gowrishankar	IJITEE	2020	0	GCT	0
Design and implementation of PV fed cascaded H bridge inverter using different filters	R.Nagarajan	International Journal of advanced science and technology	2020	0	GCT	0
Predicting Diabetes meletus using modified support vector machine with clud security	Valanrajku mar	IETE journal of research	2020	0	GCT	0
A Novel hybrid optimized and adaptive r econfigurable framework for the im plementati	Prabhu Ram amoorthy	Microprocesors and micro systems	2020	0	GCT	0

on of hybrid bio-inspired classifiers for diagnosis						
An inventor system with retinal demands, multiple vacations and two supply modes	Kathiresan . J	International Journal of Operational Research	2020	0	GCT	0
Removal of cadmium(II) from water using modified citrus limettioides peels: The thermodynamic and Isotherm studies	Sudha.R	Asian Journal of Chemistry	2020	0	GCT	0
View File						

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Heterogeneous Distort-Prevention Mechanism for Cloud Management	Dr R C Kar pagalakshmi	Journal of Adv Research in Dynamical Control Systems	2020	1	0	GCT
Iot Based Plants Disease Detection Using Convolution Neural Network	M.Ramkumar	International Journal of Advanced Science and Technology	2020	1	0	GCT

(CNN) and Support Vector Machines (SVM)						
Convolutional Neural Network Classification On 2d Craniofacial Images	M.Ramkumar	International Journal of Grid and Distributed Computing	2020	1	0	GCT
Effect of wood particle size on the mechanical properties of PLA bio composite	Sachin S Raj	Pigment Resin Technology	2020	1	0	GCT
Effect of wood particle size on the mechanical properties of PLA bio composite	T.K.Kannan	Pigment Resin Technology	2020	1	0	GCT
View File						

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	1	234	128	12
Presented papers	19	19	0	0
Resource persons	0	0	4	0
View File				

3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharat Awareness Programme	NSS	5	200
Blood Donation Camp	NSS	6	60
Plastic Awareness	NSS	5	350

Programme			
Dengue Awareness Programme	NSS	5	275
Blood Donation Camp	NSS	5	65
Donation to the Indian Blind Association	YRC	6	5
Tree Plantation	NSS	10	200
Tobacco awareness rally	NSS	12	290
Voter ID awareness program	NSS	8	210
Corona Awareness program	NSS	3	50
View File			

3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Dengue Awareness Programme	Award	Pachal village	100
Blood Donation Camp	Award	Government Hospital, Rasipuram	20
Plastic Awareness Programme	Award	Nainamalai, Namakkal	100
Blood Donation Camp	Award	Salem Blood Bank	65
Donation to the Indian Blind Association	Award	Indian Blind Association	10
View File			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharath	NSS	Swachh Bharat Awareness Programme	5	200
Social Service	NSS	Blood Donation Camp	6	60
Swachh Bharath	NSS	Plastic Awareness Programme	5	350
Epidemic Awareness	NSS	Dengue Awareness Programme	5	275
Social Service	NSS	Blood Donation	5	65

		Camp		
Social Service	YRC	Donation to the Indian Blind Association	6	5
Awareness Program	NSS	Tree Plantation	10	290
Awareness Program	NSS	Tobacco awareness rally	12	200
Awareness Program	NSS	Voter ID awareness program	8	210
Awareness Program	NSS	Corona Awareness program	3	50
View File				

3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
FDP	N.Balakrishnan	Institution	14
FDP	S.Saravanan	Institution	14
FDP	C.Thiruvassagam	Institution	14
FDP	Sachin S Raj	Institution	14
STTP	A.D.Dhivya	Institution	5
STTP	Sasi priya	Institution	5
STTP	Gladson	Institution	5
STTP	Ranganathan	Institution	5
View File			

3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industrial Visit	Industrial Visit	Kodaikanal Solar Observatory, Indian Institute of Astrophysics , Kodaikanal - 624 103	31/01/2020	31/01/2020	23
Industrial Visit	Industrial Visit	Hykon India, Trissur	01/02/2020	01/02/2020	38
Industrial	Industrial	Alees	31/01/2019	31/01/2019	38

Visit	Visit	Infomedia Pvt.Ltd, Thrissur, Kerala			
Internship	Internship	Rasipuram PCARD Bank Ltd., Rasipuram - 637 408, Ph.No:04287 - 223160	24/06/2019	27/06/2019	7
Internship	Inplant Training	Bharat Sanchar Nigam Limited, Virudhunagar - 626 001	17/06/2019	21/06/2019	1
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Ui path Academic alliance	10/03/2020	Value Added Courses	30
Studymong	10/02/2020	Value added courses	40
Constuction management training institute	18/08/2020	Industrial Visit	98
Caliber Virtual Technologies	07/11/2019	Industrial Visit	92
Prayoga Virtual technologies	20/02/2020	Guest lecture	84
Ohmtronixs complete lab solutions	06/01/2020	Guest lecture	112
E trainers, coimbatore	03/02/2020	Guest lecture	98
Yezdi fire suppression private ltd, Coimbatore	10/02/2020	Inplant training	11
BITA(Banking Institute and TNPSC Academy)	06/09/2019	Placement	50
View File			

CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
--	--

140	112.68
-----	--------

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
LIPS (DOLPHIN SOFTWARE)	Fully	5.0	2008

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	27765	7291362	2516	575940	30281	7867302
Reference Books	3330	1325813	234	122850	3564	1448663
e-Books	0	0	5506	72954	5506	72954
Journals	0	0	101	178474	101	178474
e-Journals	0	0	894	141424	894	141424
Digital Database	3	50000	0	0	3	50000
CD & Video	2531	0	46	0	2577	0
Library Automation	1	25000	0	0	1	25000
Weeding (hard & soft)	0	0	0	0	0	0
Others (specify)	0	0	1	1400	1	1400

[View File](#)

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Dr.R.Umamaheswari	Restoring Algorithm	Computer Architecture	15/07/2019
R.Lakshminarayanan	CPU Scheduling Algorithms	Operating Systems	16/07/2019
S.Muthuraj	Euler and Homiltonian Graph	Graph Theory and Applications	16/07/2019
V.Jegan Raja	Knapsack Problem	Design and Analysis of Algorithms	16/07/2019
Dr.R.Umamaheswari	Basic concepts	Object Oriented Programming System	17/07/2019
Dr.R.Umamaheswari	Constructor Concept	Object Oriented Programming System	17/07/2019
Dr.R.Umamaheswari	Method overloading	Object Oriented Programming System	17/07/2019

[View File](#)

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	723	569	30	32	61	11	10	70	10
Added	70	70	0	0	0	0	0	0	0
Total	793	639	30	32	61	11	10	70	10

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

70 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
CSE	http://gct.org.in/cse_Teaching_Learning_Practice.html
EEE	http://gct.org.in/eee_Teaching_Learning_Practice.html
ECE	http://gct.org.in/ece_Teaching_Learning_Practice.html
MECH	http://gct.org.in/mech_Teaching_Learning_Practice.html
CIVIL	http://gct.org.in/civil_Teaching_Learning_Practice.html

	ng Practice.html
MBA	http://gct.org.in/mba Teaching Learning Practice.html
MCA	http://gct.org.in/mca Teaching Learning Practice.html

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
2	1.49	200	186.32

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

INFRASTRUCTURE: To ensure adequacy of the infrastructure including land, buildings, equipment, computer hardware and software, the norms of the statutory bodies like UGC, AICTE and Anna University with regard to resource requirements shall be adhered. The masonry and plumbing works are done with local skilled persons through our Estate office. **CLASS ROOMS:** The classrooms are equipped with an array of HiTech equipment which enables the competent teachers to conduct classes. In this very special learning environment, LCD projector. The well furnished class room facility for the strength of 60 is there in each class. **LABORATORY:** Lab equipment are serviced by manufacturers and service personnel during odd and even semester. Stock register and maintenance register is also maintained regularly as per our institution norms. Lab equipment are calibrated once in an academic year. The entire labs' Components are internally and financially audited. As per Anna University's norms a batch of 30 students can utilize the lab facilities. **CAMPUS SURVEILLANCE SAFETY:** Campus Surveillance Cameras, CCTVs, other security equipment are maintained by the equipment providers. Fire Extinguishers in various blocks, classroom, labs, hostels, offices, etc. are set and maintained. **COMPUTERS:** The college has 723 computers with high speed internet connections, WIFI facilities and the software are distributed in different locales like office, laboratories, library and departments. Computers are maintained by internal staff. Each laboratory has an assistant, who ensures the proper use of the computers. **LIBRARY:** The working hours of the library is from 9.30 a.m to 10.00 p.m on all working days and from 9.30 a.m to 4.00 p.m. on holidays. Maintenance activities are made by the college management regularly and digital library have high speed internet connectivity. Library stocks are audited once in a year. **PLACEMENT AND TRAINING CELL:** Special Training is provided by experts in the software domain such as C, C++, JAVA, Python and Dot Net to the students and aptitude and communication training for competitive examination such as GRE, GATE are also provided to them. **SPORTS FACILITIES / ACTIVITIES:** Excellent infrastructure is provided for sports with outdoor Courts and running track which are also maintained regularly. The college uses some labourers for daily wages to keep the playground with clean and good condition during the tournaments and sports day celebrations. **POWER SUPPLY / ELECTRICAL MAINTENANCE / GARDEN MAINTENANCE:** A power generator (485KVA) is installed in the campus to handle the occasional power shutdown. The maintenance of Generator Set is undertaken as per their preventive maintenance schedules and guidelines by the equipment supplier. Tree plantation and garden maintenance are done by the gardener through Estate office. and the volunteers of NSS and YRC. **TRANSPORT FACILITIES:** The College runs a fleet of 39 buses and vans for providing

transport facility to the students from various places in and around the campus. A full fledged transport department functions in the College to provide transport facility to students and staff from various places. Regular maintenance of buses is monitored by the transport division of our institution.

<http://gct.org.in/facilities.html>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Christian Educational Development Trust Scholarships	639	6363100
Financial Support from Other Sources			
a) National	Government	2079	136101870
b) International	NIL	0	0
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Soft Skills	26/06/2019	2466	Department of Placement and Training Cell Faculty members and Face Academy
Language Lab	08/08/2019	351	English Department faculty members And Department of Placement and Training Cell Faculty members
Life skills(Yoga)	12/07/2019	385	Mr.K.Pannerselvam, Dhyana Maharishi,Prabancha Dhyana Kendra,Dindugal
Personal Counselling	26/06/2019	2466	Faculty members and HoD of each department
Remedial Coaching	24/08/2019	265	Faculty members of each department
View File			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited	Number of benefited	Number of students who	Number of students placed

		students for competitive examination	students by career counseling activities	have passed in the comp. exam	
2019	Competitive Exam coaching and Career Counselling	203	757	0	382

[View File](#)

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
3	3	1

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
GNANAMANI COLLEGE OF TECHNOLOGY	709	358	OTHER INSTITUTIONS	163	24

[View File](#)

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2020	2	BE	ECE	MUTHAYAMMAL ENGINEERING COLLEGE	ME-VLSI DESIGN
2020	2	BE	MECH	MUTHAYAMMAL ENGINEERING COLLEGE	ME-THERMAL ENGINEERING
2020	1	BE	CSE	KSR COLLEGE OF TECHNOLOGY	ME-COMPUTER SCIENCE AND ENGINEERING
2020	3	BE	MECH	GNANAMANI COLLEGE OF TECHNOLOGY	MBA
2020	15	BE	MECH	GNANAMANI COLLEGE OF TECHNOLOGY	ME-INDUSTRIAL ENGINEERING
2020	10	BE	ECE	GNANAMANI COLLEGE OF TECHNOLOGY	ME-VLSI DESIGN

2020	8	BE	EEE	GNANAMANI COLLEGE OF TECHNOLOGY	ME-POWER ELECTRONICS AND DRIVES
2020	10	BE	CSE	GNANAMANI COLLEGE OF TECHNOLOGY	ME-COMPUTER SCIENCE AND ENGINEERING
2020	9	BE	CIVIL	GNANAMANI COLLEGE OF TECHNOLOGY	ME-CONSTRUCTION ENGINEERING AND MANAGEMENT
2020	11	BE	CIVIL	GNANAMANI COLLEGE OF TECHNOLOGY	ME-ENVIRONMENTAL ENGINEERING

[View File](#)

5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	0
SET	0
SLET	0
GATE	0
GMAT	0
CAT	0
GRE	0
TOFEL	0
Civil Services	0
Any Other	0

No file uploaded.

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

Activity	Level	Number of Participants
Cultural	Institution	173
Competition	Institution	451
Sports	Institution	953

[View File](#)

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Nil	National	0	0	Nil	Nil
2020	Nil	International	0	0	Nil	Nil

No file uploaded.

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

STUDENTS SUPPORT AND PROGRESSION: Gnanamani College of Technology has students from various disciplines and constitutes students' participation committee. It endeavors to take advantage of every opportunity to create and sustain an environment that nurtures life in its fullness, for every member of its community and set it on the path of excellence. The Student Participation Committee believes that progress is possible only with the involvement of all the stakeholders in the institute such as students, staff, faculty and management. The association includes the representative body of students along with members from management and staff members. The student body is formed with the class representatives from every class. Student coordinators are members of the disciplinary committee and the core committee of the college association.

CLASS COMMITTEE To take a review on the student's performance, academic plan execution of every subject in a semester and for corrective measures for further enhancement ALUMNI ASSOCIATION Interaction between the Alumni and the students are made to make it mutually beneficial. All alumni under one roof to support the present students are united for better placement in the job market.

THE NATIONAL SERVICE SCHEME AT GCT (NSS) To find the problems and needs of the community. It involves the NSS volunteers are involved in problem solving process. It develops a sense of social and civic responsibility among themselves.

ASSESSMENT COMMITTEE Coordinating assessment activities, providing support and encouragement for the use of assessment techniques and for implementation of changes are made as a result of assessment.

MULTIPRONGED CAPABILITY ENHANCEMENT AND DEVELOPMENT SCHEMES Personal mentoring, student development programmes, and academic programmes which are designed to learn to live and work together for achieving excellence in personal and academic areas.

STUDENT ACTIVITY CLUB It creates interest in both technical and nontechnical activities of the students and promoting their latent skills for fittest in the world. Students are motivated to participate in Spoken Tutorials, NPTEL online courses and certification programs.

WOMEN EMPOWERMENT CELL: It inculcates entrepreneurial attitude among young girls, scientists at the earliest so that they could be "job givers" rather than "job takers".

TRAINING AND PLACEMENT CELL: It provides training in aptitude, technical and personal competencies and facilitates the students to get placement in top notch companies and get through GATE, CAT, and UPSC.

ENTREPRENEURSHIP DEVELOPMENT AND INCUBATION CENTRE: Students are encouraged to bring out their business ideas and enable them to kick start their own ventures with the help of the training and the seed money is sanctioned from the incubation centre.

COUNSELLING SERVICE: Students are counselled to address the pressures of family expectations, personal expectations, academic pressure, social pressure, psychological adjustments, and identity formation is counselled to concentrate on their academic developments.

HEALTH CARE UNIT: Focus on students' health related issues, annual medical checkups are conducted. Yoga and meditation are offered.

GRIEVANCE REDRESSAL CELL: The cell is addressing the students' grievances and to redress them immediately whenever it is required.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The college has a registered alumni association named as Gnanamani College of Technology Alumni Association. Efforts were taken to register the association and registered in the year of 2019 with registration number SRG/Namakal/167/2019. The alumni meet provides a good opportunity for the institution to take inputs from alumni for preparing students for industry

ready. Key objectives

- To bring the old students of Gnanamani College of Technology, Namakkal under one forum for sharing of experience and dissemination of knowledge. Talents amongst its members and also for the furtherance of fellowship, advancement of scientific knowledge in general of the members of the Association.
- To conduct seminars, conferences, workshops, endowment lectures and other academic activities.
- To create and establish Alumni endowments for granting scholarships, prizes and medals to the students showing high proficiency in their studies and honor former students of the College.
- To advise and interact with State and Central Government Bodies, Universities and Associations of other academic institutions on matters relating to promotion of higher education, training and management systems and thereby promote the welfare and status of the College.
- To render financial aid to deserving alumni in cases of extreme compassionate circumstances.
- To organize cultural and educational programmes and also to conduct Alumni Day celebrations every year.
- To help the Alumni to get advice from the College on various technical problems and job opportunities that they may come across in their work and real life.
- Role model and inspiration: Alumni is an effective role model and can be easily accepted by students. With the return of the alumni to support the college, they bring with them credibility and justification as part of a successful college, having breathed the same air and encountering similar challenges faced by the students. Experiences that are shared by the alumni with students are highly useful to enhance their skills.
- Career mentor: Competition in entering the work force is becoming more intensive as a result of a higher number of graduates compared with a limited number of job opportunities. Job availability is more critical in certain sectors. In the final year of their studies, students must identify seriously their career prospects. This is the right time for alumni to support the students by mentoring them on their career opportunities in the industry and opening channels for the students for acceptance, either in undergoing practical learning or work experience in the institutions where the alumni reside in. Alumni can be a reference for the faculty concerned in meeting the needs of students and graduates in obtaining work in selected fields.

The Name and Designation of the members

1. Sachin S Raj, President
2. S. Charanya, Vice President
3. G. Vidhya Krishnan, Secretary
4. B. Gopala Sutharsan, Joint Secretary
5. C. Kumaresan, Treasurer

5.4.2 – No. of enrolled Alumni:

755

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

100000

5.4.4 – Meetings/activities organized by Alumni Association :

Webinars and workshops organized by our alumni students in various departments.
Alumni students take part in advisory committee for benefit of our students

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

The Philanthropic Founder and Chairman, Dr.T.Arangannal has the deep vision of serving the society with the motto "Education is the foundation upon which we build our future". His vision has been the heritage statement for the functioning of the institution. The Chief Executive Officer and Chief Administrative Officer are the learned academicians in guiding the administration of the institution and making the council of principal, faculty

and students work towards the vision of the institute. Based on the recommendations of the Governing Council, the commencement of new courses, expansion of infrastructure, implementation of strategy and other vital decisions are approved by the Chairman and peer team, implementation process discussed with the Principal and Heads of the departments for execution. The top management headed by the Chairman, Chairperson, Chief Executive Officer, Chief Administrative Officer, Principal and Vice Principal ensures that periodical meetings of the Governing Council are conducted to monitor the progress. The college delegates authority and provides operational autonomy other departments/ units of the institution and work towards decentralized governance system. People who have authority and autonomy: • Chief Administration Officer • Principal • Vice Principal • Dean • HODs • Committee Coordinators • Project coordinators • Class in charges • Lab incharges

Decentralization - Various committee

Name of the Committee	Name of the Faculty Coordinator
University Examination Cell	Mr.S.Gopinath, AP
EEE Internal Examination Cell	Ms.C.Hemalatha, AP
HOD/ Physics Anti - Ragging Committee	Dr.K.Mohanapandian
Professor / EEE Womens' Protection and Anti Harassment Cell	Dr.M.Malarvizhi
Department HOD Counsellors Counseling Cell	Vice Principal
All HODs Grievance Redressal Cell	Vice Principal
All HODs Discipline Committee	Mr.K.Sridhar, AP
EEE Alumni Association Cell	Dr.P.Arulmozhi, Professor
Mechanical Industry Institution Interaction Cell	Mr..A.Venkatesh, AP
EEE Higher Education Cell	Mr s.Rajasekar, AP
Maths Library Committee	Dr.N.Balakrishnan, HOD
Mech. Bus Transportation Cell	Dr.K.Chandramohan, Vice Principal
Hostel Advisory Cell	Dr.R.UmaMaheshwari, HOD
CSE Software Development and Website Management Cell	Mr.S.Gopinath, AP
CSE Social Media Cell	Mrs.S.Lalitha, AP
CSE Gnan Resource Center.	Dr.R.Nagarajan, HOD
EEE Training Cell	Mr.R.Prabhu, AP
ECE Placement Cell	Dr.K.Mohanapandian, HOD
Physics NSS / Youth Red Cross / Red Ribbon Club	Dr.G.Ranganathan, HOD
ECE Recruitment Committee	Dr.R.Umaheshwari, HOD
CSE Academic Year Plan and Time Table Committee	Mrs.B.Vanitha, HOD
Chemistry Cultural Cell	Mr.K.NandhaKumar, AP
ECE Right to Information Cell	Dr.K.Chandramohan, Vice Principal
Staff welfare committee	Dr.R.C.Karpagalakshmi, Professor
CSE Internal Quality Assurance Cell	Mr.S.Muthuraj, AP
CSE NPTEL Study Centre	Dr. M. AsokRajkumar, Professor
Dean / Mechanical Research Development Cell	Mr.B.Manikandan / EDC Coordinator
Entrepreneurship Development Cell	Formation of different sub committees under the supervision of IQAC comprising representative of all stakeholders of the college for coordinating important academic activities of the college.

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	University curriculum is divided in to various domains such as Mathematics, Basic Sciences Humanities, Basic Engineering Courses, Inter Disciplinary Courses, Professional Core, Electives, Management and Project Work. The Department Assessment Committee (DAC) members analyze the curriculum gap if any based on the mapping of COs with POs PSOs of all subjects and also considering the feedbacks received from internal and external stakeholders. If

there is no curriculum gap, the curriculum is implemented. If there is curriculum gap, it is referred to the Department Advisory Committee and then its suggestions and guidelines are followed by the department in order to attain POs and PSOs.

Teaching and Learning

Faculty members provide quality study materials to enrich student's performance. Mode of teaching in this institute is not only limited to the traditional Chalk Talk methods, but also an amalgamation of the modern technology (e.g. power point presentation, audiovisual teaching, etc.) The learning materials for every course are available in the content server of the college which can be accessed by the students through the intranet facilities. Course materials, question bank, PPT and lab manuals are periodically uploaded in the Intranet portal GRC (Gnanamani Resource Centre <http://193.193.193.193/grc/loggingrc.aspx>) to develop the students self learning. 125 WiFi routers enhance the utility of internet and intranet facilities to the students and staff round the clock at the speed of 70mbps. The biggest resource for self learning is obviously the college library. The college library not only possess plenty of books to meet the students' syllabus oriented needs, but it also houses numerous books by eminent national and international authors on a variety of topics which students may regularly access to sharpen and broaden their knowledge. The library subscribes number of printed journals and magazines related to each programmes of science and technology which the students may easily access. OPAC (Online Public Access Catalog <http://192.168.77.250/DOLPHINOPAC/>) allows the users to browse the abstract of entire library collections via intranet facilities. The digital library (<http://192.168.77.52>) provide IP based facility to access e resources (SPRINGER, DELNEL, NDL) intranet facility which is often used by the students and staff to access various materials like journals, eBooks, videos and conference proceedings for their self development. Students are encouraged to attend Massive Open Online Courses (MOOC). Expert video

lectures delivered by the various eminent resource persons are readily available in the digital library and it facilitates the faculty and students to utilize NPTEL lectures (<https://nptel.ac.in/>) and SWAYAM lectures (<https://swayam.gov.in/courses/public>) to enhance their knowledge. Mock placement and mock Online tests are conducted online with different company perspective for the students to learn the interview process and skills. Students are asked to complete the task by role play and by interacting with their peers and try to complete the task assigned to them in their specific role. Tutorial classes are conducted by giving more practice to enhance analytical skills of the students. Seminars, workshops and conferences are conducted which improves students communication and learning skills. Guest lectures are conducted by inviting eminent persons from industry and academics. Industrial visits and implant training provide the students to easily understand the engineering concepts. Class committee is constituted. The meeting is conducted thrice in a semester to discuss the course delivery and to solve the issues. The faculties are encouraged to participate / present papers in international / national conferences and publish their articles in journals which improve their knowledge and communication skills. Career guidance interaction programmes are conducted for plus two students. Orientation programs are conducted for the first year engineering students.

Examination and Evaluation

The Internal Exam Cell plans the test schedule based on the college's academic calendar and frames a format to set the question paper and from the prescribed syllabus for each test. All the faculty members are asked to set the question paper based on Bloom's Taxonomy ensuring the following factors
a) Testing of Knowledge of the relevant subject (b) Testing of CO Attainment and it is verified by course coordinator, and then approved by the HOD. The answer scripts are evaluated by the faculty member concerned within 3 working days from the date of the concerned subject's internal assessment test conducted. During evaluation, the

obtained marks are mapped with the course outcomes and calculated the percentage of marks for each CO. The evaluated answer scripts are distributed to the students. Answer key for the questions are discussed in the class and then the result analysis report is prepared and submitted to the HOD concerned. After completion of every Internal Assessment Test (IAT), marks are uploaded in the ERP and University's web portal. The remedial classes are conducted for the weak students and the absentees. The relevant test's progress report of each student is sent to their parents by post. The evaluation of final year projects UG/PG is carried out in a transparent manner with the student progress, marks allotted and any issues being documented in the project review sheet after each periodic review.

Research and Development

The process of promoting research culture among faculty and students is ensured by facilitating participation in research and related activities, providing resources and other facilities. Modernizing the existing laboratories with additional experimental setup/instruments and technology for utilizing the labs for research activities. Arranging guest lecture under Institute to Industry interaction program to promote research on industry needs. Conducting various programs to promote IPR activities. Faculty members are motivated by the HODs and the Principal to submit research proposal to various funding agencies like AICTE/DRDO/ISRO/CSIR/TNSCST/DST Etc. The College has also received workshop grant for organizing seminars/workshops for the benefit of faculty members and research scholars. To conduct or participate in workshops, training programmes and sensitization programmes on capacity building in terms of research and consultancy and imbining research culture among staff and students. The college deputed faculty to present papers in National and International conferences. For the effective research, the library provides IEEE, DELNET, which contain more than 895 eJournals also the library provides free research data base like e PATCHALA facilities through

the library webpage. The library has membership with Anna University Library, BCL (British Council Library) membership and American Library. Under this membership's staff and students can access all the facilities of the member library by the direct visit for their research activities. The institution collaborates with other agencies, institutions, research bodies for sharing research facilities and undertaking collaborative research.

Library, ICT and Physical Infrastructure / Instrumentation

The Institution has provided all infrastructures which in turn provide a good physical ambience for the Faculty and Students in terms of adequate library, research laboratories, ICT, Computing facilities and allied services. Library Library has been computerized with bar code system. Digital library is equipped with high speed internet connectivity. OPAC with intranet facilities also available in the library. Library has Membership with NPTEL, NDL, BRITISHCOUNCIL LIBRARY, AMERICAN LIBRARYANNAUNIVERSITY LIBRARY for enriching the knowledge of our students and faculty members. Electronic Database like IEEE, DELNET was subscribed for the knowledge up gradation of our students and staff. Interlibrary loan facilities are also available. Costly Reference books and journals are subscribed every year for the benefit of staff, students Research Scholars. Library best utilize award has been given to the student every year for encouraging our students to use library resources up to the maximum level. Library is kept open from 8.45am to 10 pm. ICT facilities such as Document scanner, printer, head phone, Reprographic are available in the library for effective function of the library. CCTV Camera Surveillance and digital display board, WiFi connectivity are also available in the Library. ICT Infrastructure • Wifi enabled campus with 70Mbps • Digital library is equipped with high speed internet connectivity. • Firewall with 3000 users • All system are connected with internet • All class rooms are equipped with LCD projectors • Course materials are uploaded in Gnan Resource Centre as per Curriculum, student can download for further reference Physical Facilities • Various

function halls like Michel Faraday Hall (400 seating capacity), Ramanujam Hall (300 Seating Capacity), seminar hall (150 seating capacity) are available for department events. • A medical centre with all the facilities is maintained for the benefit of students and staff of all institutions. Physicians are visiting the centre in the evenings. • Laboratories are created with futuristic vision to meet the changing requirements of the industry with modern equipment's and machineries with good power backup. • An enviable Training and Placement cell equipped with conference hall, group discussion hall and an interview panel is functioning round the clock in training the students for placements. • RO Drinking Water Facility in all places. • An Excellent and Hygienic Canteen available in the College Campus. • WiFi enabled with 24/7 surveillance under CCTV. • High Speed Internet Facility in the entire campus including the Hostels. • Sewage Treatment Plant. • A Full-fledged transport department functions in the College with buses to provide transport facility to students and staff from various places. • Our Hostel has a modernized kitchen with full fledged cooking machines and equipment's along trained chefs and workers, and gym facility also available for physical fitness. • Green Campus to make a sustainable and environmentally friendly institution. • 3D MAX theatre also available for students entertainment.

Human Resource Management

We strictly believe in the motto of team building and collective decision making. • The Institute organizes various orientations and enriches mentprogrammes for the staff members for upgrading their skills in the latest technology. • Institute grants Casual Leave, On Duty and Special Leave to the Faculty members. • The faculty and staff members are entitled to avail summer and winter vacations as per norms. • 50 fee concession for their wards if they study in this group of institution. • 100 fee concession for staff member to use college bus facility in any operating routes.

Industry Interaction / Collaboration

The institution emphasizes upon career development of the students. This can

be achieved by establishing MoUs with reputed core industries to enhance Industry Institute Interaction activities like Internships, Industrial Visits, In plant Trainings, Value Added Courses, Industrial Projects, Guest Lecturers etc., for the benefit of students. Collaboration with the industry for R D Projects. Conduct awareness programmes on entrepreneurship skills. Corporate professional are invited to create awareness with regard to technological advancements and skills to be acquired for carrier development. The cell invites experienced academicians, leading professionals with extensive corporate experience and entrepreneurs to address the students and thereby facilitate practical learning.

Admission of Students

Admissions are made upon the basis of Tamil Nadu Engineering Admissions-single window system procedure for the government quota students and through the consortium of self financing engineering colleges for the management quota students.

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

E-governance area	Details
<p>Planning and Development</p>	<p>The ERP system of the Institute helps in planning academic calendar which includes Timetable, Recording of Lectures and attendance, Feedback by students. This ERP helps in distributing students in batches through batch management, the faculty subject allocation, and other important academic activities are planned. It allows students to select Choice Based Electives. Allotment of students 'mentors and the related information are properly maintained. The ERP system has students Grievance module which helps in overall development of the Institute.</p>
<p>Administration</p>	<p>Administrative ERP system of the institute helps in keeping students information system and the service records of the employees maintaining service books. Notice Board announcement display system for students, faculty and other stake holder are displayed in website. College planners and common activities and events are also circulated.</p>

Finance and Accounts	Functions of the finance and accounts are precisely defined and are strictly followed with proper accounting practices which records of each financial transactions using e-governance mechanism. This helps in keeping records of receipt of funds, staff salary, all types of purchases and payment of various utility bills and taxes. It also helps to maintaining the college accounts through Tally.
Student Admission and Support	Admitted students Applications are submitted through the online admission portal which maintaining all UG and PG student's database in our college ERP system. Email ids and contact numbers of all members of Anti Ragging Committee, Anti Ragging Squad and Internal Complaints Committee have been uploaded to the college website and students can communicate to the members through email.
Examination	ERP of the institute has well defined information system for collecting the data related to marks is updated and evaluated. Performance of the students in defines tests and internal examinations are entered in ERP and the consolidated reports of examinations are periodically sent to the parents through SMS. Student's academic improvements are monitored through this system.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	Dr.K.Chandramohan	International Conference on Recent Trends in Computers	N.A	750
2020	Dr.K.Chandramohan	International Conference on Recent Advancements in Wireless Communications	N.A	750
2020	Dr.Umamaheswari	International Conference on Recent Advancements in	N.A	750

		Wireless Communications		
2020	Dr.Umamaheswari	International Conference on Recent Trends in Computers, Electronics Electrical Engineering (ICCEEE2020)	N,A	750
2020	Dr R C Karpagalakshmi	International conference on Recent Advancements in Wireless Communications, Signal and Image Processing	N,A	750
2020	Dr R C Karpagalakshmi	International Conference on Recent Trends in Computers, Electronics Electrical Engineering (ICCEEE2020)	N.A	750
2020	Dr R C Karpagalakshmi	International Conference on Recent Trends in Computers	N.A	750
2020	Dr R C Karpagalakshmi	International Conference on Recent Advancements in Wireless Communications, Signal and Image Processing" ICWCSIP 2020	N.A	750
2020	S.Lalitha	International conference on Engineering and Technology(ICET -2020)	N.A	750
2020	S.Lalitha	National Conference on Challenges and opportunities in industry 4.0, (COIN - 2020)	N.A	750
View File				

teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Image Processing and its Real time Application	-	25/02/2020	26/02/2020	35	0
2020	Introduction to construction and Management	-	07/02/2020	08/02/2020	7	0
2020	Solid waste Management	-	27/01/2020	28/01/2020	8	0
2020	Recent trends in Medical Electronics	-	20/01/2020	21/01/2020	15	0
2019	Advanced Tools for Web page development	-	21/10/2019	24/10/2019	7	0
2019	Recruitment scenario of IT Core biggies.	-	22/10/2019	23/10/2019	30	0
2019	-	Training program on Road Safety Awareness.	11/10/2019	16/10/2019	0	30
2019	-	Training programs for Quality Maintenance of Laboratories	09/07/2019	10/07/2019	0	15
2019	Advanced Surveying using total station and GIS		03/10/2019	04/10/2019	6	0
2019	Trends in		01/10/2019	03/10/2019	85	0

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP on Recent Trends In materials Science	9	10/02/2020	14/02/2020	5
FDP on Advanced Mathematical Pedagogy	8	21/10/2019	25/10/2019	5
FDP On Mathematical Modeling And Computational methods In Science And Engineering	7	04/11/2019	08/11/2019	5
FDP on Students Induction Program	10	15/07/2019	19/07/2019	5
CFD Simulation Of Thermal Management Of Batteries And Power Converters	5	28/05/2020	01/06/2020	5
Emerging Effective Digital Tools For Teaching Pedagogy	6	25/05/2020	29/05/2020	5
Engineering And Management Teaching Pedagogy- An Industry Perspective	3	11/05/2020	16/05/2020	5
"Introduction To Finite Element Analysis"	4	11/05/2020	15/05/2020	5
Recent Trends In Driverless Electric Vehicle Technologies	4	25/11/2019	07/12/2019	14

Research Methodology-Webinar	1	25/11/2019	07/12/2019	14
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
51	51	5	5

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
5	5	2

6.4 – Financial Management and Resource Mobilization

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

Internal Audit is conducted by officials deputed from Trust office periodically and the reports are obtained before conduct of the external audit which is normally done after the annual closure of the accounts in all respects. External Audit is conducted by the Statutory Auditors after 30th June and the reports are prepared and updated by 30th September of the subsequent year and records are disclosed in the website. During the course of Internal Audit, all required steps are taken to regularize the accounts and to obtain confirmations for the credit balances, to collect documentary evidences wherever inadequate in respect of payments, compliance of T.D.S. and Statutory Formalities and Reconciliation of Unit wise balances with the Control Accounts and Bank Reconciliations. The copy of the internal audit report covering all matters related to maintenance of accounts is prepared. Subsequently, External Statutory Audit is conducted by the auditors and the final audit report with audit findings are submitted to the Management. The consolidation of the findings of the Institutions with Trust Central office has been completed and the annual returns have been submitted to Income tax Authorities and to the other relevant authorities concerned.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Management	910541	ALGAE FARM WORK
No file uploaded.		

6.4.3 – Total corpus fund generated

61835904.35

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ANNA UNIVERSITY/ISO	Yes	IQAC
Administrative	Yes	ANNA UNIVERSITY/ISO	Yes	IQAC

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

Parent Teacher meeting is conducted periodically to know about the students' progress. The meeting is a platform to offer suggestions for further improvement and development of the students. The faculty coordinators and other faculty members are often in touch with the parents. Additionally, when there is a disciplinary problem or if there is poor performance in the examinations, the parents are contacted over the phone for corrective measures and counselling is held along with parents. There is constant interaction between counsellors and parents, which helps to provide timely support and encouragement to students in times of need. Parents take part in the stakeholders meeting and offer their valuable suggestion for the growth of our institution. Feedback from parents is collected in the prescribed format through department advisory committee (DAC), analyzed and used for further development. Interactions between the parents and the teachers regarding the support progression of their respective wards in academic personal aspects. Parents who are working in core sector support the co-curricular activities through their suggestion to the department by the career opportunities available in the current trends.

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

Staff Development Program (Guest Lectures/Workshops/Training Program) is conducted regularly in the individual departments to address their technical needs. The training includes: • Computer training. • Hands on Training • New laboratory practices. • Yoga and meditation. • Fire and safety. • Outcome Based Education Workshop. Apart from this, the support staffs members are encouraged to pursue higher studies.

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

Good numbers of programs are arranging to strengthen industrial institution partnership continuously 2. By conducting activities on incubation and other entrepreneurial programs are organized to transform students in to budding entrepreneur. 3. Information and Communication Technology tools are imparted to enhance teaching learning process.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Workshop on Robotics Process Automation by Center of Excellence, B OT Lab, Automation Anywhere Inc., USA.	25/06/2019	25/06/2019	27/06/2019	37
2019	Inauguration of Center of	25/06/2019	25/06/2019	25/06/2019	2398

	Excellence "BOT Lab" by Automation Anywhere Inc, USA.				
2019	Anna University recognized research center renewal for the department of EEE	12/07/2019	12/07/2019	12/07/2019	389
2019	Student Induction Program as Bridge course	13/07/2019	13/07/2019	31/08/2019	340
2019	National Board of Accreditation (NBA) peer team visit for CSE, ECE, EEE and Mechanical departments	19/07/2019	19/07/2019	21/07/2019	2021
2019	Motivation Programme on Learn to Learn for first year B E-Engineering Students	26/08/2019	26/08/2019	26/08/2019	830
2019	Inauguration of Institution Innovation Council (IIC) under MHRDs Innovation Cell	11/09/2019	11/09/2019	11/09/2019	2398
2019	Entrepreneurship Awareness Camp In association with EDII, Ahmedabad sponsored by the NSTEDB, Ministry of Science and	25/09/2019	25/09/2019	27/09/2019	101

	Technology, Govt. of India				
2019	Motivational program for first year students	01/10/2019	01/10/2019	03/10/2019	830
2019	Orientation program on NAAC Accredi tation Process	04/10/2019	04/10/2019	04/10/2019	215
View File					

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
GROUP DISCUSSION: ABOUT WOMEN RIGHTS	24/08/2019	24/08/2019	85	0
WOMEN'S MENTORING PROGRAM	20/09/2019	20/09/2019	80	0
WOMEN'S PERSONALITY DEVELOPMENT PROGRAMME	23/10/2019	23/10/2019	70	0
ORIENTATION PROGRAMME ON YOGA FOR WOMEN	10/02/2020	10/02/2020	96	147
WOMEN'S DAY AWARENESS PROGRAM	08/03/2020	08/03/2020	94	0

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

Percentage of power requirement of the University met by the renewable energy sources
42.10

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Rest Rooms	Yes	0

7.1.4 – Inclusion and Situatedness

Year	Number of	Number of	Date	Duration	Name of	Issues	Number of
------	-----------	-----------	------	----------	---------	--------	-----------

	initiatives to address locational advantages and disadvantages	initiatives taken to engage with and contribute to local community			initiative	addressed	participating students and staff
2019	1	1	24/07/2019	1	Income Tax Awareness Rally Program	Social Awareness	150
2019	1	1	27/09/2019	3	TRB EXAM	Communal	900
2019	1	1	01/10/2019	1	Voter ID Verification awareness program	Regional	200
2020	1	1	13/02/2020	8	Block Educational officer Exam	Communal	2000
2020	1	1	15/04/2020	135	Quarantine for COVID-19	Regional	0
View File							

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

Title	Date of publication	Follow up(max 100 words)
HR Policy for staff Memebers	02/07/2019	All the staff members in Gnanamani College of Technology are brought under HR policies framed in the institution. • The staff can avail a total of 12 Casual Leave (CL) in an academic year. • The staff members can avail one day Casual Leave (CL) per month normally. • A staff member can avail 12 days exam OD in a year in order to attend university duties like External Examiner, Central Valuation, etc. • A staff member can avail 12 days special OD in a year in order to attend various Conference/Seminar/Faculty development programs/Winter

		schools/Summer schools • Vacation Leave (VL) is three weeks per year to the faculty members.
HR Policy for Students	02/07/2019	<p>All the students in Gnanamani College of Technology are interwoven with HR policy structured in the institution. The management has drafted the HR policy against the benefit of students carefully keeping their future careers in their mind. Benefits 1. Providing the best conducive environment to the students. 2. Encouraging the students to join hands with social activities 3. Helping them to shine in their academic activities 4. Motivating to attend workshop, seminar, and conference being organized in other colleges. 5. Identifying their entrepreneurial skills and contour them to start own ventures.</p>
HR Policy for Parents	02/02/2019	<p>All the parents of our students in Gnanamani College of Technology are linked with HR policy. Benefits 1. Giving updates about their ward's academic progress by using technology such as ERP Software, Email etc. 2. Considering their feedback for the betterment of their wards and the institution. 3. Parents Meeting is conducted periodically to address the grievances of parents and students. 4. All the parents are informed by the staff what norms to be adopted by their wards in the institution. 5. Parents are intimated well in advance to pay their wards' fee dues if any before the due date.</p>

HR Policy for Employers	02/07/2019	<p>HR policy in institution is a general statement which is formulated by an organization for the development of the institution. The policy is framed in accordance with government norms to cover the entire programs in the institution. It helps to raise the standard quality of the organization.</p> <p>Stakeholders of Gnanamani College of Technology have also aligned with HR policy and extend their support to promote the institution. Benefits</p> <ol style="list-style-type: none"> 1. Creating the best environment in the institution. 2. Identifying all the stakeholders' issue through meeting. 3. Drafting Academic Plan by collecting feedback from stakeholders.
-------------------------	------------	--

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Road Safety Awareness Program	23/08/2019	23/08/2019	200
GNAN DIWALI BLAST 2K19	09/10/2019	11/10/2019	25
Workshop on personality development program	16/10/2019	16/10/2019	120
National Youth Day Celebration	28/12/2019	28/12/2019	100
Uzhavar Vizha	10/01/2020	10/01/2020	120
Opportunities for entrepreneurship	14/02/2020	14/02/2020	100
View File			

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

<p>BICYCLES PEDESTRIAN FRIENDLY ROADS PLASTIC FREE CAMPUS PAPERLESS OFFICE GREEN LANDSCAPING WITH TREES AND PLANTS WASTE WATER MANAGEMENT RAIN WATER HARVESTING</p>

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

<p>Best Practice: Title 1: Functions of Mentoring System Student Mentoring Online: It primarily focuses on strengthening the relationship between students and</p>
--

staff members. All sorts of academic grievances of students are addressed during mentoring and measures are taken by the mentors to make them focus on their academic. ERP online tool is adopted in our institutions to effectively follow the students counselling details. All the details of the students are recorded in the portal and can be viewed by the mentors at any time for further improvement of the mentees. These records help the mentors to identify the student's qualities and proper guidance is given to them according to their need. Faculty members are assigned as Mentors for a group of 12 to 15 students. All the mentors maintain student's details such as parents name, addresses, contact numbers, details of their assessment marks and their progress in Curricular and Co-curricular activities. Mentors are monitoring and guiding their students continuously and counseling them to improve their attendance, individual talents / skills etc. All the mentors act as good motivators to inculcate and develop their co-curricular, extracurricular and other activities along with the regular academic works. The students are always feel free and liberty to meet their mentor for any type of help and guidance. Mentors are always available to attend any kind of needs arising from students end. Providing suggestion for student's issue is a vital part of the mentors and these reports are viewed to parents during the parents meet. Parents obtain their ward's attendance and academic performance, achievements and so on. The Mentoring details are viewed by the HOD and the Principal to check the effectiveness of the system. This mentoring system in our Gnanamani College of Technology is found to be very useful and effective for the development of students' community. Motivational program are conducted periodically to stimulate the mindset of students to get success in academic and personal life.

Title 2: Slow Learners Coaching System: The slow Learners are identified at the beginning of academic session. The institution conducts remedial classes for them in different subjects to enhance their confidence skills and competence. Tracking the progress of students through Assignments. Define Test. Internal Test. Model Exams and Counseling. Rural student's lack of communication skills is a major concern in getting placement in top MNCs. The students are motivated to learn language with a varied range of vocabulary. In this coaching system, learning knowledge about a subject with basic concept and exam requirement. The students should gain adequate knowledge related to their subject. So that the slow learners also will participate in placement. The coaching classes for the slow learners are conducted from the first year onwards. As a beginning of the process domain wise guest lectures are invited for the slow learners to improve their, knowledge. At the end of the course the students are evaluated through by the internal test. The list of improved students is prepared and forwarded to the next level.

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

http://gct.org.in/gct_new/IOAC/Best_Practices.pdf

7.3 – Institutional Distinctiveness

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

Training and Placement cell is functioning effectively in our college to enhance the students' skills to face the current industrial demands. We have meticulously designed our own training modules with the support of senior faculty members and Corporate HRs by keeping in mind the ongoing industrial needs. The Training and placement cell has good infrastructure facilities and well trained faculty members to develop the student's knowledge in both technical and communication skills. Our prime objective is to train the students vigorously to get them placed in top notch MNCs. The prime objective of the Training Cell is To make students meet the industry requirements and to

get them qualified. To give 100 employment for all students. To train students with effective Career guidance Programmes. To develop students communicate effectively To motivate students to aim high and to guide them for competitive exams such as CAT, GATE, TOEFL, GRE, IES,UPSC,TNPSC etc. Soft skills provide students with a strong conceptual and practical framework to build,develop and manage teams. They play an important role in the development of the students' overall personality, thereby enhancing their career prospects. The soft skills orientation to the students help them in building and improving their skills in communication, the effective use of English, business correspondence, presentations, team building, leadership, time management, group discussions, interviews, and inter-personal skills. The training also helps them to envision their career and to plan an effective resume writing and to deal with placement consultants and headhunters.Skills are a cluster of productive personality traits that characterize ones relationships in a milieu. Soft skills are highly important in today's diligent world. Soft skills include social skills, graces, communicative abilities, body language and personal habits, cognitive or emotional empathy, time management, teamwork and leadership traits.Soft skills are commonly used to refer to the "emotional side" of human beings in opposition to the IQ (Intelligent Quotient) component related to hard skills" Hard skills are necessary for career employment and are generally quantifiable and measurable from an educational background, work experience or through interview. Soft skills that complement subject-specific knowledge and skills are commonly demanded by employers for entry-level employees and are therefore an important factor in increasing students' employability. However, soft skills are yet to be adequately taught in schools and universities. This might be due to the fact that the term soft skill is not so well- defined, especially in relation to the more widely used term 'competence'.Based on research with companies and best practices in universities and in halls of residence, we initiated certain guidelines to assist teachers and trainers at higher educational institutions to design and set up learning a environments that supports learning activities suitable for achieving the desired soft skills related learning outcomes. We focused on how soft skills can be mastered and took note of three main questions that interposed these presented guidelines:

Soft skills such as communication ability, aptitude for interpersonal relations, and emotional intelligence often are downplayed. With skills such as HTML coding increasingly valued for students.

Provide the weblink of the institution

http://gct.org.in/gct_new/IQAC/Institutional%20Distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

Establishing center of Excellence in interdisciplinary domain for research, product, development, patents. The Institution will strive to attain Autonomous and Deemed University status. Conducting Value Added Courses in cutting edge technologies to meet out the industry requirements and enhance the employability of the students. Encouraging EDC activities and startup company to improve real time internship in the campus to promote placement and entrepreneurship. The college will also sign more number of MoUs with Foreign/National Universities/Industries with a view to send students to abroad for initiating collaborative activities. Encouraging the faculty members in actively performing research in the emerging areas and contemporary concepts, and ushers in a culture of critical thinking, creativity and fosters an inspirational learning environment. The Institution will establish the Green renewable energy technologies in and around the campus to fulfill the requirements of the Society. The college will strive hard to get the NIRF rank. Encouraging the faculty PG / Research scholars for publishing papers in the reputed Journals Conferences at International National level. In the conclusion, the institution will disseminate astonishing development in all aspects in a meticulous way.

