Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY**
Name of the head of the Institution	**Dr.S.Saravanan M.E., Ph.D., MISTE.,**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**04290233333**
Mobile no.	**9442273721**
Registered Email	**principal@dgct.ac.in**
Alternate Email	**office@dgct.ac.in**
Address	**Opposite Salem Airport**
City/Town	**Salem**
State/UT	**Tamil Nadu**
Pincode	**636309**
2. Institutional Status	

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr.S.Venkatesh M.E, Ph.D, MIE.,**
Phone no/Alternate Phone no.	**04290233333**
Mobile no.	**9444822188**
Registered Email	**venkatesh.ece@dgct.ac.in**
Alternate Email	**office@dgct.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://dgct.ac.in/AQAR2017-18.pdf
4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://dgct.ac.in/naac/academic-calendar/

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B+**	**2.58**	**2017**	**09-Jun-2017**	**08-Jun-2022**

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

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
NBA Awareness Program	**07-Nov-2019 2**	**95**
Workshop on Teaching and Learning Methods	**29-Jun-2019 1**	**105**

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
No Data Entered/Not Applicable!!!				

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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**2**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

NBA Process started for all Departments

15 Value Added Programs conducted in the Academic year 201819

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

Plan of Action	Achivements/Outcomes
Value Added Program(VAP)	**• Conducted 15 Value added programs • Nearly 450 students have completed and certified in VAP**
Placement and Training	**• 90% of the willing students got placed**
Teaching and Learning	**• Conducted workshop on Teaching and Learning methodologies for faculty**

	members on 29.06.2019
NBA process	• Conducted NBA awareness program for Faculty members on 07.11.2019 and 08.11.2019
Plan for Research and Development	• Faculty members have attended 23 Seminars/Workshops and presented 20 papers
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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2018
Date of Submission	01-Jan-2018
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Our College Dhirajlal Gandhi College of Technology having centralized Management Information System (MIS) for its various processes. The MIS is developed for an optimum distribution of resources and services to yield maximum benefits to students, teachers, and the management alike. This MIS is a central data repository capable of not only gathering, organizing and storing data but also processing and analyzing it and generating various reports from it. It is specially designed to monitor the performance of education programs offered by the institute and to manage the distribution and allocation of educational resources. The major benefits of student, teachers and management by the MIS are as follows: For the Students: MIS stores crucial student data such as personal data, exam records, and even hostel, library details. Additionally, it keeps track of the daytoday progress of students which is eventually used to analyze, monitor the improvements or retrogression in students overtime.

This is a comprehensive approach as compared to the legacy database where the stored data was incapable of providing realtime crucial insights and consequently aiding the institution in better and timely decision making. For the Teachers: In our institution, the progress of educators is equally imperative for them as well as the institution itself. Educators need to deploy technology to gain indepth knowledge about student behavior and make the most out of the time and resources available to provide maximum aid to the students. Our MIS helps track faculty data such as attendance, and performance. But, more importantly, an MIS reduces the workload on teachers by providing quick access to data on any student or a group of students which can be drilleddown, filtered, and arranged accordingly within a few clicks. For The Management: The MIS makes our institute to ease of tracking and analyzing resource distribution, expenditures. By resources, the management can invests in right from assets and infrastructure to study aids and educators.Additionally, the management can fully control which teacher, faculty, staff has access to what kind of data. For instance, sparing the staff incharge of finances, the management can lock the students financial records from all the other users or alternatively, academic performance data can be hidden from the staff. The various modules of MIS are as follows: 1.Admission Automation System Registration, Certificates Copy Manager, Student Discontinue, Student ID Card Printer, Various Reports 2.Accounting Software Student Fees Calculation and allocation, Fees Paid manager (Fees Billing), Fees Collection (University Exam / Answer Script / Revaluation), Various Reports 3.Administrator Student Roll Number Generation, Registration Number Allocation, Student Batch wise List, Section Division, Bonafide Certificate, CC Certificate, TC, Student various Reports, ID card 4.Student Information System a.Personal Details Scholarship, Bus/Hostel, Admission b.Academic Details Internal Marks, AnnaUniversity Marks, Attendance c.College particulars 5.Staff Information System Personal

	Details, Profiles 6.Outcome Based Education CO Manager, PO Manager, COs POs Mapping, Internal Mark Entry, University Attainment Fixing and Calculation 7.College Management Event: Club activities, Seminars, Conference Advertisement Circulars 8.Course Management System 9.Department Information System 10.TimeTable Management System 11.Social Responsible Programs 12.Sports Achievements 13.Office management

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

Dhirajlal Gandhi College of Technology (DGCT) continuously evolves strategies to provide quality education to fulfill the aspirations of the students and strive hard to achieve excellence in technical education. The institute has well qualified faculty members to impart technical and value-based knowledge in a conductive learning environment. The curriculum and the syllabus of the UG and PG programs are designed by the affiliating University Anna University, Chennai. The Choice Based Credit System (CBCS) was introduced from the academic year 2017 with new curriculum and syllabus as R2017. The University is instrumental in deciding the common subjects of first year and the number of credits to be allocated to each semester, the number of open electives and the mandatory courses. The curriculum and teaching methodologies are designed to enhance employability and the spirit of entrepreneurship among the students. The University brings out reforms in curricular aspects to meet the challenges as posed by industry and society. As part of this the university has introduced courses in various subject areas like Humanities and social Sciences (HS), Basic Sciences (BS), Engineering Sciences (ES), Professional Core (PC), Professional Electives (PE), Open Electives (OE) and Employability Enhancement Courses (EEC). Also the University provides curriculum to enroll the students in Personality and Character development programs like NCC, NSS, NSO, and YRC and the new regulation provides Value Added courses with credentials to enhance the students in technical skill developments. For implementing effective delivery of the curriculum, the following processes are adopted: • As per the university prescribed curriculum, the subjects are allotted to the faculty based on their specialization, experience, last time results and students feedback. • The concerned faculty prepares log book which consists of Course plan and Delivery details, Internal / External Audit details, and Course assessment plan. • Also the faculty prepares course file includes lecture schedule, tutorial sheets, assignments and Question bank and keys for objective as well as subjective, before commencement of the Class work to meet effective deliverance of curriculum. • The curriculum mapping for all programs are well prepared and explained to the students to understand the relevance of courses to the program. • The lectures are delivered with help of ICT tools and teaching aids. • The syllabus coverage is reviewed and assessed on monthly basis by the Programme • Assessment Committee to ensure coverage of syllabus in time. • Tutorial classes are conducted, especially in mathematics and analytical courses. • Regular assignments are given to the students on the extended topics of the syllabus. • Class committee meeting has been conducted

by Head of the department twice in a semester, the feedbacks have been collected through the meeting and the collected feedback is shared with the faculty members to identify improvement areas to work on. • Most of the laboratories are designed to promote conduction of experiments individually and the similar log book is used to assess the curriculum delivery. • Additional remedial classes are engaged for the slow learners. • Blooms taxonomy is implemented

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
IIRS		04/09/2018	10	Remote sensing and Digital Image Analysis	Understanding and Knowledge about Remote sensing and Digital Image Analysis
PCB Design (Salieabs)		17/09/2018	7	Focus on employability	Designing Knowledge
NX		08/10/2018	220	Automotive Industries Design and analysis	3D Modelling, Drafting, Assembly and Simulation
AUTOCAD		05/11/2018	75	Automotive Industries Manufacturing Industries Design and analysis industries	3D Modelling and Drafting.
Creo		08/11/2018	15	Automotive Industries Manufacturing Industries Design and analysis industries	3D Modelling, Assembly, Drafting, Animation
Java Programming(CS021118)		23/11/2018	6	Focus on employability	Programming
CATIA V5		10/12/2018	15	Automotive Industries Manufacturing Industries Design and analysis industries	3D Modelling, Assembly, Drafting, Animation
Big data analytics		17/12/2018	5	Focus on employability	Cloud services and Management

Professional in Product Design and Analysis	01/06/2018	50	Design a product on materials, processing, economic and aesthetic decisions.	Designing, Analysis.
Industrial Automation using PLC	04/06/2018	10	Programming of New automatic cutting and grinding tools. Maintenance and repairing of automatic cutting and grinding tools.	Knowledge about Industrial Automation
IIRS	23/07/2018	5	Geospatial input for enabling master plan formulation under AMRUT Sub- Scheme	Knowledge about Geospatial input for enabling master plan formulation
IIRS	06/08/2018	5	Advanced Geospatial Modelling tools and techniques	Knowledge about Geospatial Modelling tools and techniques
Introduction to Electrical and Electronics Engineering(LIVEWIRE)	20/08/2018	7	Focus on emp loyability	Core Fundamentals
CATIA V5R20	03/09/2018	12	Automotive Industries M anufacturing Industries Design and analysis industries	3D Modelling , Assembly, Drafting, Animation
NPTEL	26/01/2019	28	Electronic Waste Management- issues and challenges	Issues and challenges about electronic waste management.
NPTEL	01/02/2019	56	Plastic Waste	Knowledge about

			Management	Plastic Waste Management
E-CAD	18/02/2019	10	ECAD is used to create and modify both diagrams and layouts, including both 2D and 3D, in order to design, assess and document electronic (PCB).	Knowledge about to Design Electrical components
Data Science	24/02/2019	1	Focus on employability	Data analysis
App Development	24/02/2019	1	Focus on employability	Web development
C Programming (CS010519)	25/05/2019	24	Focus on employability	Programming
AUTO CAD	28/05/2019	5	Auto CAD Essential	With ability drafting tools, productivity tools,door,window architectural symbol creations,plan,elevation and section creation

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
No file uploaded.		

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
ME	CAD / CAM	01/06/2018
BE	CIVIL ENGINEERING	01/06/2018
BE	COMPUTER SCIENCE AND ENGINEERING	01/06/2018
BE	ELECTRONICS AND	01/06/2018

	COMMUNICATION ENGINEERING	
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	01/06/2018
BE	MECHANICAL ENGINEERING	01/06/2018
ME	STRUCTURAL ENGINEERING	01/06/2018
ME	COMMUNICATION SYSTEMS	01/06/2018
ME	COMPUTER SCIENCE AND ENGINEERING	01/06/2018

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

	Certificate	Diploma Course
Number of Students	579	13

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
Java Programming (CS021118)	23/11/2018	67
Estimation and Costing of Construction Materials	05/12/2018	32
STADD PRO	23/01/2019	32
MATLAB/SIMULINK for Electrical Simulation	15/02/2019	35
NI Lab View Core I	19/03/2019	37
NI Lab View Core II	22/04/2019	35
C Programming (CS010519)	20/05/2019	37
Tessolve Test Engineering Course	05/07/2018	30
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	CIVIL ENGINEERING	60
BE	COMPUTER SCIENCE AND ENGINEERING	53
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	38
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	123
BE	MECHANICAL ENGINEERING	89
ME	STRUCTURAL ENGINEERING	13
ME	COMMUNICATION SYSTEMS	1
ME	COMPUTER SCIENCE AND ENGINEERING	1
ME	CAD / CAM	1

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained
The institution collects the feedback on curriculum aspects, courses and syllabus which is prescribed by the university from different stakeholders such as the Students, Teachers, Employers, Alumni and Parents, further college website invites all stakeholders to provide feedback through online also. The Institution collects all feedbacks and communication in the form of questionnaires and comments and analyzes to develop areas of improvement on it. Student's Feedback: Based on the analysis of feedback received from stack holders some of the needs and improvements required are derived. Some of the important observations from the analysis of student's feedback are as follows. Flexibility in curriculum and need for skill oriented courses were suggested. •The curriculum should include advanced learning modules. •Need for job Oriented courses, industry based training for facing interviews during campus selection. •Needs more career Guidance and expert talks by industrialists. •Research manuscript quality check can be made free access. •Faculty-student interaction may be enhanced. Smart class programs may be made effective. •Demo based, Project based learning and more industrial visits are to be provided. Teacher's feedback: Some of the important observations from the analysis of Teacher's feedback are as follows. •Suggestions from all faculties regarding curriculum revision are considered. •Case study approach may be introduced. Group assignments and projects to be given. •E- Waste recycling must be encouraged among student community. •Evaluation of departmental activities and action plans may be implemented with inputs from subject experts to improve the curriculum. •Refresher courses to enrich the learning experience of the faculty may be organized. •Research quality may be enhanced by collaborative research with other institutions/industries in India and abroad. •University examination questions to be covered in the given syllabus only. Parents Feedback: Some of the important observations from the analysis of Parent's feedback are as follows. •Make the teaching more practical based and interesting. •Learning strategies to expose the students the latest developments in industries/society. •Practical Knowledge to be imparted which will help them to face real life situations. •Apart from regular teaching, Social awareness and human values to be imparted to students. •Special coaching needed for competitive exams to get government jobs. Alumni Feedback: For example the important points to be improved from Alumni's feedback are as follows. •Focus more on inter-disciplinary activities of many courses and on practical aspects. •Projects should be given more weightage as evaluation component. •Industrial experts must be invited to give guest lectures. •Involve alumni in BOS and take their suggestions to revamp the curriculum to cater to the needs of the job market. •Gender awareness programs and Capacity building programmes are to be organized. •Employability skills and Training programme may be organized to improve the placement opportunities. •Entrepreneurship development programmes may be conducted. Employers Feedback: For example the important points to be

improved from Employer’s feedback are as follows. •The recruiters from IT companies and other industries suggested that the students need to be more participate and work with teams more effectively. •Students need to be aware of Industry Exposure and future needs.

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
ME	CAD/CAM	24	15	8
BE	Computer Science and Engineering	144	160	145
BE	Electronics and Communication Engineering	144	145	125
BE	Electrical and Electronics Engineering	144	156	118
BE	Mechanical Engineering	144	164	135
ME	Computer Science and Engineering	24	20	6
ME	Communication Systems	24	10	5
ME	Structural Engineering	24	36	23

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	2048	56	120	16	16

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
136	136	14	10	5	9

View File of ICT Tools and resources

View File of E-resources and techniques used

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

Yes, there are three stages of mentoring system following in each department of DGCT. The class advisor, programme coordinator and all faculty members of the department are acting as mentors. The students are categorized as Advance Learners (A), Normal Learners (B) and Slow Learners (C). The students are distributed to all the faculties of the department with combination of three categories and all year students. The Class advisor mentoring the students in various aspects like daily class attendance, Continuous Internal Evaluation (CIE) test attendance, and analysis of test marks. The mentor mentoring the students in attentiveness in class, academic performance, attitude, discipline and personal matters. The program coordinator mentoring the students in academic achievements, co curricular, extracurricular activities and other special skill maters. The following are the major activities of mentoring system, • On an average of 15-20 students are allotted for each faculty. All mentors are responsible for the academic and emotional needs of the students allotted to them. • The mentor and students meet at least twice a month. The student shares the academic difficulties / emotional challenges and the class counselor is available at any time for any help or support for their needs. • The mentor maintaining the Counselling record, action taken / corrective measures / help offered to the student and also have a regular follow-up. • Any indicators like sudden dip in academic performance, change in behaviour, regular absenteeism, being inattentive in the class, not concentrating / taking part in the class activities, self-talk, self-harm or causing harm to others, suicidal thoughts / speech, need to be immediately addressed and referred to the Student mentor. • The mentor gives individual care to the students to improve their academic progress and provides support on personal issues, to think and take important strategic decisions. • Mentoring towards moral, ethics, self discipline, addiction, habits, behavior and Psycho social counselling is also focused by senior faculty and with the help of parents. • Whenever the mentor have difficulty in counselling or no effects of counselling or if the student is undergoing any negative emotions or a trauma or a loss of loved members of the family and the student is finding difficult to handle it, those students can be referred to the Program coordinator and HoD. • The students those who are interested in pursuing their higher studies are provided career counselling and the job seekers are assisted with job search strategy by the Placement department and Life-long Learning Cell and Institute Industry Partnership Cell (IIPC) respectively

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2104	136	1:17

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
136	127	9	9	13

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
2018	Mr.P.Balamurugan	Assistant Professor	Young scientist awards
2018	Mr.S.Gobinath	Assistant Professor	Out Standing Master Thesis
2018	Dr.S.Saravanan	Principal	Bharat Gaurav Ratan Award for Education Excellence - Global Society for Education Growth and All India Business

			Development Association, New Delhi
2018	Dr.M.Rameshkumar	Associate Professor	Bharat Gaurav Ratan Award for Computer and IT - Global Society for Education Growth and All India Business Development Association, New Delhi
2018	Ms.J.Vaijayanthimala	Assistant Professor	Innovation technologist Dedicated Teaching Professional Award - Innovation Scientific research Professional Malaysia
2018	Dr.S.Saravanan	Principal	Integrated Intelligent Research - Global Society for Education Growth and All India Business Development Association, New Delhi

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	104	II / I	18/05/2019	16/06/2019
BE	104	I / I	11/01/2019	02/02/2019
BE	103	VIII / IV	13/04/2019	16/06/2019
BE	103	VII / IV	29/11/2018	12/01/2019
BE	103	VI / III	29/04/2019	16/06/2019
BE	103	V / III	23/11/2018	12/01/2019
BE	103	IV / II	22/05/2019	16/06/2019
BE	103	III / II	15/11/2018	12/01/2019
BE	103	II / I	18/05/2019	16/06/2019
BE	103	I / I	11/01/2019	02/02/2019

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

DGCT follows guidelines of Anna University, Chennai for internal evaluation and assessment procedure. For undergraduate programs, the institute conducts two mid-exams of 60 marks for each course, comprising Part-A (ten - two marks questions – 20 marks), Part-B (two-thirteen marks questions – 26 marks), Part-C (one-fourteen marks questions – 14 marks) for descriptive, and three assignment for ten marks each. The average marks of both examinations are considered as final mid-marks. One intensive coaching test for 60 marks and a end semester exam (model exam) for 100 marks are conducted. All the exam marks and assignment marks are converted for 20 marks and given as internal assessment marks to University in three phases. End semester examination is for 100 marks which are conducted by the university and the scored mark is converted for 80 marks. The same system of Continuous Internal Evaluation (CIE) system is followed for PG programs. In this CIE system, DGCT follows an efficient method such that, the question paper is prepared by a staff rather than the subject handling staff and the answer scripts are evaluated by another staff like a University examination and Evaluation process to get realistic exam outcome. The question papers are checked for the CO coverage and knowledge level by the course coordinator, module coordinator and approved by the HoD. After evaluation, the answer scripts are distributed to the students for doubt clarifications and re-correction. The faculty submits the re-corrected scripts to the examination cell and marks are displayed on the notice board. The consolidated mark list for all courses is prepared and submitted to the exam cell by the Class counselor. The Principal conducts meetings with HODs to understand student's performance and necessary action plan for further improvement. For laboratory evaluation for UG and PG the institution conducts two model practical for 25 marks. The internal mark is calculated for 20 marks from the two model tests of 25 marks and performances in practical classes. External lab-examination is conducted for 100 marks and converted to 80 marks. Project Work: As per the Anna University regulations, the major project consists of 100 marks, of which the continuous internal assessment carry 20 marks while the end semester examination will carry 80 marks. Mini projects are mostly carried out at industries and carries 100 marks of internal assessment only. The Project Review Committee (PRC) consisting of one Project Coordinator and three to four senior faculty members. Students' performance is evaluated by the PRC based on the following parameters: Technical novelty, presentation skills, use of modern tools, critical thinking skills, problem-solving skills, ability to work in teams, and leadership qualities. Strategies adopted for student improvement: All the test questions are solved and discussed during the distribution of the answer scripts. Remedial classes are organized to clarify doubts, review of critical topics for improved performance. Poor performance due to frequent absenteeism is dealt by sending SMS and registered letters to parents of such students. Appropriate counseling with additional teaching eventually helps students to attend classes regularly.

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

The academic year starts on the date as prescribed by Anna University. The university publishes the academic schedule in advance, such as commencement of classes and end date of the semester and CIE tests duration, schedule for submission of internal marks in three phases and attendance in four phases. The institution academic calendar for each semester is designed to meet the university academic schedule and distributed to the departments. Before the commencement of the semester, the time-table coordinator circulates the course option form which has details of faculty competency to each faculty member. Based on that, the HOD will allocate appropriate courses to all the faculty. Based on the course allocation, the time table coordinator will frame the time

table for all the classes. For the interdisciplinary courses, the respective departments will be requested through proper channel to handle the respective courses. In addition, value-added courses are also conducted to enhance the knowledge, bridge the gap in the curriculum and to meet the industry expectations. Slow learners are closely monitored and in addition to the regular classes, weekend classes are being handled to cater to their needs. Bright students are motivated to score high grades and to secure university ranks through some special classes. The Head of the Department verified the course delivery plan to complete the subject within the prescribed duration in academic calendar and finally approved by the Principal. Every course has five units as prescribed by the Anna University curriculum. During the semester, after every planned unit completion, the Lesson delivery plan is monitoring by the HoD and if any discrepancy is found in completion, the HOD will discuss the matter with the individual faculty. The lesson plan follow-up is then submitted for Principal's review. There is a academic coordinator appointed by the HoD for each year of the program who monitors the day-to-day conduct of the lectures based on the time table.

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://www.dgct.ac.in/naac/academic-planner/index.php

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
413	ME	STRUCTURAL ENGINEERING	13	11	84.6
402	ME	CAD / CAM	1	1	100
114	BE	MECHANICAL ENGINEERING	134	101	75.4
106	BE	ELECTRONICS AND COMMUNICATION ENGINEERING	98	85	86.7
105	BE	ELECTRICAL AND ELECTRONICS ENGINEERING	100	72	72
104	BE	COMPUTER SCIENCE AND ENGINEERING	108	75	69.4
103	BE	CIVIL ENGINEERING	139	86	61.9
403	ME	COMMUNICATION SYSTEMS	1	1	100
405	ME	COMPUTER SCIENCE AND ENGINEERING	1	1	100

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2.7 – Student Satisfaction Survey

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

http://www.dgct.ac.in/naac/student-satisfaction-survey/

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
Industry sponsored Projects	365	Mukesh and Associates, Salem	8.5	8.5
Industry sponsored Projects	365	Mukesh and Associates, Salem	6.5	6.5
Industry sponsored Projects	365	Mukesh and Associates, Salem	4	4
Industry sponsored Projects	365	Mukesh and Associates, Salem	7	7
Industry sponsored Projects	365	Mukesh and Associates, Salem	10.3	10.3

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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Seminar on Standard Penetration Test	CIVIL ENGINEERING	01/03/2019
Seminar on Total Station	CIVIL ENGINEERING	01/03/2019
Seminar on Oracle Programming using PL/SQL	COMPUTER SCIENCE AND ENGINEERING	20/08/2018
Seminar on Debugging	COMPUTER SCIENCE AND ENGINEERING	10/10/2018
Workshop on Python Programming	COMPUTER SCIENCE AND ENGINEERING	15/10/2018
Seminar on Development Programme on Python Programming	COMPUTER SCIENCE AND ENGINEERING	09/11/2018
Two days National Level Workshop on Mobile and Web Application development	COMPUTER SCIENCE AND ENGINEERING	24/06/2019
Seminar on career at Government Sectors by	ELECTRONICS AND COMMUNICATION ENGINEERING	07/09/2018

Mr.A.Prakasam JTO/BSNL,		
Seminar on current Technology by Mr. Sathish, Livewire,	ELECTRONICS AND COMMUNICATION ENGINEERING	23/02/2019
A seminar on Innovative Design for Engineers	MECHANICAL ENGINEERING	30/08/2018
A seminar on Materials Processing Using Lasers	MECHANICAL ENGINEERING	11/09/2018
A seminar on Renewable Energy Sources	MECHANICAL ENGINEERING	15/10/2018

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
Bharat Gaurav Ratan Award	Dr.M.Rameshkumar	Global Society for Education Growth and All India Business Development Association, New Delhi	30/11/2018	Computer and IT
Bharat Gaurav Ratan Award	Dr.S.Saravanan	Global Society for Education Growth and All India Business Development Association, New Delhi	30/11/2018	Education Excellence
Cardiac Sciences	Ms.S.Sridevi	IISc, Bangalore	28/11/2018	Young Scientist
Integrated Intelligent Research	Dr.S.Saravanan	Global Society for Education Growth and All India Business Development Association, New Delhi	30/11/2018	Special Award - Best Industry Partnership
Out Standing Master Thesis	Mr.S.Gobinath	Indian concrete institute and Ramco cements	18/12/2018	Research scholars

View File

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
EDTIC CELL	Mr.S.Mothilalnehru	DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY	ELITE LIGHTS	Fabrication and testing of LED Luminaries	08/09/2018
Mobile Application Center	Learn flow Eduguru	Learn flow Eduguru	Android APP Development	Mobile APP Development	08/10/2018

View File

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
1500	2500	5000

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

Name of the Department	Number of PhD's Awarded
ELECTRONICS AND COMMUNICATION	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	ELECTRONICS AND COMMUNICATION ENGINEERING	1	3
International	ELECTRICAL AND ELECTRONICS ENGINEERING	1	0.5
International	COMPUTER SCIENCE AND ENGINEERING	2	1.8

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
MECHANICAL	2
ELECTRICAL AND ELECTRONICS	1
COMPUTER SCIENCE	2
CIVIL	5

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
3-10 GHZ Ultra Wide band low noise amplifier using integrated resonant scheme for multimode circuit	Dr.S.Venkatesh	IJMTER	2019	1	Dhirajlal Gandhi College of Technology	1

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
A Hybrid Swarm intelligence based optimization on approach for solving minimum exposure problem in wireless sensor networks	Mr.S.S.Aravind	Concurrency commutations Practices and Experience	2019	3	1	mentioned
Synthesis score level fusion based multifarious classifier for multi bio metrics applications	Mrs.J.Vaijayanthimala	Medical imaging and Health informatics	2019	1	0	mentioned

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	3	8	20	2
Presented papers	7	13	0	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
Guest Lecture on ‘How to get Success in life through Meditation’	Dhirajlal Gandhi College of Technology/ Flow link Systems Pvt. Ltd., Coimbatore	18	387

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
Swash Bharat Yatra	Best College award	Food Safety Department, Government of Tamilnadu	200

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 activites	Number of students participated in such activites
DST-Indian Innovation Challenge Design Contest-2017	Indian Railway	Project-Automated Safety System to Avoid the fire Accidents and Derailing of trains in india	1	4
PALS	Think Create Engineer	Seminar	2	2
Entreprenuership Awareness Camp	DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY	Workshop	2	6
Rotary Club of salem	RYLA	RYLA	1	1
Engineers World Record Attempt	Karpagam Collge of Engineering	World Record	0	3
ICTACT	ICTACT	Youth Talk	2	2
ADITI	DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY	WOMEN EMPOWERMENT	2	50
Smart India Hackathon	IIT-Roorkee	Hackathon	1	5

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
Guest Lecture on “ Recent Technologies in IT company” By Mr.Pravinkumar Rajappan, Technology Lead,Infosys	Students	DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY	1

Guest Lecture on “Python programming” Mr.J.Asaithambi, Managing Director, Aaron Technologies	Students	DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY	1
Faculty Development Programme Oracle Programming using PL/SQL by Mr VTL Rao	Faculty & students	DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY	5
Guest Lecture on Python programming by Mr.S.Kumar, Senior Software Developer, C Cube Technology	Faculty & students	DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY	1
Faculty Development Programme Python Programming by Mr.A.J.Joel, Sr.Software Engineer L T Infotech	Faculty & students	DHIRAJLAL GANDHI COLLEGE OF TECHNOLOGY	1
Dr.S.Saravanan, Participation of full time teachers to Aaron Technologies,Salem	Company Employees	Aaron Technologies,Salem	1
Dr.M.Rameshkumar, Participation of full time teachers to microsun technologies	Company Employees	microsun technologies	1
Mr.S.S.Aravindh, Participation of full time teachers to Accel frontline global IT services	Company Employees	Accel frontline global IT services	1
Dr.M.Rameshkumar, Participation of full time teachers to Accel frontline global IT services	Company Employees	Accel frontline global IT services	1
Dr.S.Saravanan,, Participation of full time teachers to Accel frontline global IT services	Company Employees	Accel frontline global IT services	1

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	Name of the	Duration From	Duration To	Participant

	linkage	partnering institution/ industry /research lab with contact details			
Inplant Training	Hands on training on Advanced surveying instruments	Toset Land Surveying Institute	20/05/2019	31/05/2019	Students
On-the-job training	Internship	PVS Constructions	21/01/2019	22/01/2019	Students
Internship	Internship	URC Constructions	03/09/2018	15/09/2018	Students
Internship	Internship	Indium Software	27/02/2019	12/03/2019	Students
Internship	Internship	Greefi Technologies	13/03/2019	13/03/2019	Students
Internship	Internship	Venpa Technologies	04/02/2019	04/02/2019	Students
Internship	Internship	Jaro Education	04/02/2019	04/02/2019	Students
On the job training	On the job training	Aaron Technoogies, Salem	16/12/2019	20/12/2019	Students
Industrial Field Training	Industrial Field Training	Sidssol Technologies	14/09/2019	14/09/2019	Students
Internship/Project	Internship/Project	Tessolve Semiconductor	07/11/2018	15/02/2019	Students

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
Skyfi Labs	16/02/2018	To provide workshops and online courses for the students	433
Aaron Technologies	04/07/2018	Placement Drive and sharing of resource and knowledge	433
Tessolve Semiconductor Pvt. Ltd., Bangalore	04/04/2019	Placement Training	22
Flow Save Pvt. Ltd., Coimbatore	06/12/2019	Training, Guest Lectures and Placement	220

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
350	371.23

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

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
Autolib	Fully	6.0	2011

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	16265	5178157	1235	340276	17500	5518433
Reference Books	832	208000	73	18250	905	226250
e-Books	0	0	1456	13570	1456	13570
Journals	467	1231780	54	156800	521	1388580
e-Journals	0	0	54	13570	54	13570
Digital Database	1	0	0	0	1	0
CD & Video	1030	0	120	0	1150	0
Library Automation	1	0	0	0	1	0

Weeding (hard & soft)	25	0	0	0	25	0

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.S.Rajendran	Rectifiers	Youtube https://www.youtube.com/watch?vn5c_AdNBYWQ	16/06/2018

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	655	12	65	1	1	45	610	65	0
Added	40	0	0	0	0	0	40	0	0
Total	695	12	65	1	1	45	650	65	0

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

65 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Video Recording Centre	http://dgct.ac.in/naac/e-content/lecture-video.php
Video Recording Centre	http://dgct.ac.in/naac/e-content/recording-centre.php

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
5	4	30	26

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)

Policy for infrastructure management: DGCT is committed to provide the best infrastructure to all its departments and other functional areas to ensure that the infrastructure meets and exceeds the requirement of teaching learning and other processes as specified by the statutory bodies both in terms of quantity

and quality. This policy for Infrastructure, Management of DGCT has been formulated for planning infrastructure through need analysis considering the guidelines of statutory bodies and development in technology including educational technology procurement of infrastructure ensuring its quality and cost industry standard equipments, up gradation from time to time proper accounting and safe guarding by putting inventory numbers on each equipment and maintaining asset register, upkeep of the equipment through regular cleaning, preventive and corrective maintenance including Annual maintenance contracts insurance against damage and theft and writing off of obsolete equipment. DGCT have very good physical and support facilities like RO plant, Sewage Water Treatment plant and rain water harvesting. Creation of infrastructure: To ensure the adequacy of the infrastructure including land, buildings, equipment, computer hardware and software, the norms of the statutory bodies like All India council for Technical Education (AICTE), Affiliating University (Anna University, Chennai) with regard to resource requirements shall be adhered. Record of infrastructure: Records of all infrastructure including equipment, software, books and other items shall be maintained by all departments and sections of the institute. For this purpose a standard operating procedure (SOP) shall be prepared and circulated. This SOP shall provide definition of assets/piece of infrastructure which must be entered in the stock Register, the process of making entries in the stock Register, the coding of each item and marking of inventory numbers on pieces of infrastructure. The SOP shall also focus on depreciation, physical asset verification and its periodicity, transfer of assets from one to the other department, writing off of obsolete items and their disposal. Insurance: Items of infrastructure of all departments of the college costing above a specified amount shall be insured against damage and theft. Upkeep and maintenance: All departments shall strictly follow the laid down procedures and guidelines of the institute with regard to cleanliness, preventive and corrective maintenance of infrastructure. This shall include the following. Regular cleaning as per the checklists. Regular inspection and periodic maintenance of equipment including lubrication, wherever necessary . Annual maintenance contract and maintaining record of service / maintenance. Corrective maintenance and its records. Phasing out obsolescence and writing off Infrastructure rendered obsolete on account of change in technology, new product and process developments shall be phased out. Any one of a combination of the following shall be adopted Deploying old equipment on tasks of lower level utilization like computers from labs can be deployed on office work for word processing. Transferring assets to other institutes which can utilize the old equipments productively. Selling the old assets through auction or other arrangements. The assets thus transferred or disposed off shall be written off from the stock register by appropriate authority.

http://www.dgct.ac.in/facilities.php

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	Management Meritorious Scholarship	973	18597250
Financial Support from Other Sources			
a) National	FG, SC/ST, BC/MBC, MINORITY	2172	40518950

b)International	0	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 implemetation	Number of students enrolled	Agencies involved
Language lab 1.Japanese Lab 2.Communication Lab	18/06/2018	818	INSTITUTIONAL LEVEL
Soft skill development	21/05/2018	418	INSTITUTIONAL LEVEL
Personal Counselling and Mentoring	26/07/2018	1533	INSTITUTIONAL LEVEL
Yoga	21/06/2018	1200	INSTITUTIONAL LEVEL
Bridge courses	08/06/2018	500	INSTITUTIONAL LEVEL
Remedial coaching	16/10/2018	176	INSTITUTIONAL LEVEL
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 students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	Career Counselling through Placement Department, Dhirajlal Gandhi College of Technology, Salem	0	139	0	80
2018	Career Counselling through Aaron Technologies, Salem	0	54	0	54
2018	Guidance for Competitive Examinations Banking	1	0	1	0
2018	Guidance for Competitive Examinations – GATE	24	0	1	0

	Coaching				
2018	Industrial Based Training	0	54	0	48
2018	Career Counselling by J.P.Gandhi	0	190	0	0
2018	Personality Development-Placement Department	0	85	0	0
2018	Guidance for Competitive examination	1	0	0	1
2018	Awareness for Higher Education & Life Long Learning	10	0	1	0

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
5	5	3

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Please refer attachment	1886	237	Please refer attachment	376	46

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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	1	BE	Civil Engineering	Delft university of Technology, Netherlands	Master of Business Administration
2018	1	BE	Civil Engineering	Sona College of technology, Salem	Master of Engineering

2018	1	BE	Civil Engineering	Kumaragur college of technology	Master of Engineering
2018	1	BE	Civil Engineering	Anna University, Tirunelveli	Master of Engineering
2018	2	BE	Computer Science and Engineering	Muthayammal Engineering College	Master of Engineering
2018	1	BE	Computer Science and Engineering	Annamalai University	Master of Business Administration
2018	1	BE	Electronics and Communication Engineering	Jayalakshmi Institute of Technology	Embedded System
2018	2	BE	Electrical and Electronics Engineering	Government college of Engineering ,Salem	Master of Engineering
2018	1	BE	Electrical and Electronics Engineering	SONA College of Technology, Salem	Master of Engineering
2018	1	BE	Electrical and Electronics Engineering	SONA College of Technology, Salem	Master of Business Administration

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
GATE	1
Any Other	7

View File

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

Activity	Level	Number of Participants
Nakshathra	Inter College	120
Culturals day	Inter College	200
Sports day	Inter College	143

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

2018	Third	National	1	1	610515103036	JEEVANANDHAM M
2018	PARTICIPATION	National	0	0	610515103023	GHANESH KUMAR M
2018	PARTICIPATION	National	0	0	610518413019	SHANMUGA PRIYA K

View File

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

In our DGCT, each department and each class having class committee meeting in three times a semester as per the Anna University regulations. The class committee consists of Six to Ten students from the class of various diversity like advanced and slow learners, English and Tamil medium students, day scholar and hosteller and boys and girls. The class committee meeting is conducted with the student members, subject handling faculties, class advisor and a Chair person of the committee. During this committee meeting various aspects like syllabus completion, student's feedback on teaching learning process, COs and POs mapping, books / course material and class attendance and staff feedback on regular academic activities are discussed and noted. The major issues are discussed with the HoD and remedial / corrective actions are taken. Every department starts their own association for do efficient technical activities and social activities too. The Association consists of elected office bearer like Student Chairman, Secretary and Treasurer from Final year, Student Vice Chairman, Joint Secretary and Joint Treasurer from third year, and four executive members from second year. The major activities of the association is to conduct Guest Lecture, Technical workshops, Symposium, Conference, Engineers day technical events and any special projects. Also the association doing many Social responsibility programs like Blood donation Camp, Tree Plantation, Awareness program in rural areas, Clean and Green campus maintenance. Also the some of the students are becomes of member of Ragging / Discipline committee, Transport department, Sports committee, Hostel committee, Scholarships and other welfare committee, and mentoring system. Institute having many clubs, each club is headed by a faculty advisor and constitutes President, Vice President, Secretary, Treasure and members of each class. The major cubs are YRC, Aditi, JCI, Nakshtra, Film Photography Club, etc., Sports club is responsible for providing opportunities to practice various sports and motivating students for participation, fostering healthy competition. Film Photography Club bring out the creative skills of photography and film making. The members of the club shoulder the responsibility of capturing and documenting various events happening in the institute. The following are the committees/ bodies where students are become part of it and representations like ISTE/IETE/IEEE/SAE/CSI/ASSE, student activity club, anti-Ragging Committee, Grievance and Redressal Committee, entrepreneurship development cell, IIIPC cell and Alumni association. The students are member of NAAC – IQAC to represent their vision in quality improvement activities of the Institute.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

602

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

301000

5.4.4 – Meetings/activities organized by Alumni Association :

1

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 Dhirajlal Gandhi College of Technology follows the policy of decentralization and Participative management in every aspect of institution functioning. The Governing Body delegates all the academic and non-academic decisions based on policy to the college Committee headed by the Principal. The college Committee formulates common working procedures and entrusts the implementation through departments. The department coordinator manages the day to day activities of the department and keeps a track of co-curricular and extra-curricular activities in the College. Other units of the college like sports, arts, library etc. have operational autonomy under the guidance of the various committees/clubs/associations and students are involved from various departments in the decision-taking process.

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	**Curricular aspects of courses at Dhirajlal Gandhi College of technology are governed by Anna University, Chennai. Multilevel systems have been evolved in the college for planning and implementation of the curriculum in a transparent and effective manner. The courses, pedagogy and infrastructure have been regularly upgraded to remain responsive to changing needs. The curriculum has been regularly upgraded and elective papers have always been retained to maintain flexibility and responsiveness to changing environments. The curriculum has always incorporated cross-cutting issues of human values, gender, environment and sustainability in the core courses and stand-alone papers have also been created around these issues in the various UG and PG programmes. The college has a history of strong community outreach component which has enabled these issues to be richly transacted in various curricular and co-curricular activities. The college**

	conducts a range of Value Added courses and organizes short-term add-on programs for self-development and professional skill enhancement of students. Students are encouraged to take up internships in various organizations involved in development related activities, schools, industries, hospitals etc. The faculty serves on a range of eminent bodies and remains abreast with changing academic scenario, industry and larger socio-economic environment. Their expertise has helped evolve responsive curriculums and teaching pedagogies. As a learning organization, we have always engaged in a continuous process of obtaining feedback from different stakeholders in a formal-informal manner and has enriched the teaching-learning processes. In recent years these have been standardized and regularized for all courses.
Teaching and Learning	The college caters to students from different backgrounds enriching the geographical, socio-economic and cultural diversity within the institution. Equal Opportunity Cell of the college strives to provide an appropriate learning environment for students with special needs. Students are familiarized with the program outcomes, mode of internal assessment as well as college facilities during the Orientation Program of the college. Teachers plan strategies to reduce the gap in knowledge and skills. Students are encouraged to think critically and be innovative and creative in tackling assignments, projects and other tasks assigned to them. A repertoire of instructional methods and active learning approaches are used to foster constructive participation. Extension activities, internships, and training ensure experiential learning for students. Library at the college is well equipped with books, journals and e-resources necessary for teaching, learning and research. Appropriate assessment is incorporated into the learning process to achieve the learning goals of the courses. Continuous Internal Evaluation is done periodically and transparency and fairness of evaluation system are ensured through Internal Assessment committee. The institution has an

	effective mechanism for redressal of grievances. Examination results display exemplary performance of the students who largely occupy the top merit positions in the University of Delhi. The biggest benchmark is our distinguished alumnae who are doing outstanding work both nationally and internationally.
Examination and Evaluation	The assessment for theory courses are carried out by three cycle tests, two intensive tests and one model examination. Four phases of marks uploaded in the university website during the predetermined period and the university computes the assessment marks for each student out of 20. The question papers are set to tests the various cognitive levels of the student (Bloom’s Taxonomy) and objective type questions are included in the pattern. A detailed scheme of evaluation is prepared prior to valuation of answer scripts for every test and the answer books are evaluated. Complete transparency is ensured while returning the answer books to the students.
Research and Development	The faculty members are encouraged to write articles for publication in journals and to present papers in National and International Conferences. The institution extends the support required to take up. Projects in which both faculty and students are involved. The institute identified several research centers based on the area of expertise and faculty members are made in-charge for such centers. The college conducts national level conferences and workshops every year to encourage faculty members and students to present and publish papers.
Library, ICT and Physical Infrastructure / Instrumentation	The central library has a large volume of books, magazines, National and International Journals related to all the branches of Science and Engineering is subscribed. Handbooks, standard books, manuals, Encyclopedias, Technical Reports, Project Reports, periodicals, Non book materials, and conference proceedings are also available to the faculties and students. A separate section for research is allotted in the library which contains collective thesis reports, exclusive journals and conference proceedings. Digital library

	service is also available for aiding the researchers. ICT The faculty members use ICT resources for effective teaching and learning. Faculty members are provided with computers and internet facilities for preparation of teaching/learning materials in their respective departments. All departments are provided with audio-visual aids like LCD Projectors and PAC Systems which facilitates multimedia teaching. Physical Infrastructure The infrastructure and maintenance committee meets once in a semester and any requirements given by departments are scrutinized in-line with the infrastructure policy and the approved requirements are sent to the governing council for budgetary approval. This ensures that the available infrastructure is in-line with the academic growth and optimally utilized.
Human Resource Management	Providing staff orientation programmes for newly joined faculty members. Encouraging the faculty members to appear GATE exam and avail financial grants from the managements. Encouraging and facilitating faculty for emerging technologies and certifications. Enriching the faculty for innovational practices for better career endeavor. Providing permissions to participate in university / Industrial forums by giving On-Duty like Special OD, Exam OD for attending conferences, seminar, workshops, invited lectures, research activities and university exam duties. Providing a better pedagogical method of teaching in the institution by smart class room.
Industry Interaction / Collaboration	The Main aim of the education system is to provide the students to meet the industrial needs. In this process, college adapts the following actions ? To establish the quality of MoU’s / Collaborations with different industries to improve the job opportunities of the graduates ? Inviting Strong technical Experts from leading Industry for conducting Guest Lecture and special Motivational Talk ? To promote industrial projects ? To encouraging industrial Research Consultancy ? Mutual Sharing of knowledge between industrial academia. ? Industrial Tour, Industrial Visits and Internships

Admission of Students	**? Dhirajlal Gandhi College of Technology is a self-financing Engineering College established in 2011 a nd Approved by AICTE, Affiliated to Anna University, Chennai. ? The College ensures publicity through prospectus, Institutional website and advertisements in leading national and regional daily English and Tamil newspapers. ? Admission notification is hosted on Anna University website during TNEA Admission previous year cut off details, percentage of seats filled for each Courses are displayed on the college notice board. ? The notification contains detailed information about programmes offered by the college, eligibility criteria and process of admission as well as academic support facilities. ? Admission details are hosted through institutional website (www.dgct.ac.in) about the UG and PG courses ? Publicity through TV Channels and educational fairs. ? The college also organized "Engineering Counseling Guidance Programme for 2 students" about TNEA counseling on career growth, latest technologies, and options for higher studies etc., related to each program This enables the students to choose the suitable course based on their interest.**

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

E-governace area	Details
Student Admission and Support	**With this admissions management and support software both students and parents can easily apply for college and university admission process. Entire flow of Admission is taken care in this application right from beginning of filling up form to selection for admission and managing their details like MQ/GQ,scholarships, education loan and other relavent documents for Admission to payment of Fees for Admission. The following are the modules deals with student admission process, ? Easy Registration Process. ? Previous Record Data ? Academic Yearly Management ? Accepted/Rejected Forms ? Student Photos ? Documents Uploading ? Customized Reports ? Admission Approval**
Planning and Development	**The college has planned to maintain all the details of our admission process,**

	accounts management, library management and also maintain all the documents as digital content. We created and implemented software named as DGCT-MIS (Management information system) for managing e-governance in our institution. A management information system (MIS) is a computer system consisting of hardware and software that serves as the backbone of an organization’s operations. An MIS gathers data from multiple online systems, analyzes the information, and reports data to aid in management decision-making in various fields. Our college separately maintains software for Library management system which deals all the activities happened in the library in a digital way. It is used to help the faculty members and students for efficiently utilize the library in a broad way.
Administration	It has two modules 1. User Module 2. Admin Module. User Module: In this module, there are three Section 1. Dashboard: In this section, user can see the status of his application. 2. Admission Form: In this section, user can fill the form and check his / her application form is selected or rejected (which is done by admin). 3. Upload Docs: In this section, user can upload own document if his/ her selected by admin(rejected user cannot upload their document) A user can also update his/ her profile. Admin Module: In this module, there are eight sections 1. Dashboard: In this section, admin can see all the detail in brief. 2. Reg Users: In this section, admin can view user detail and update user detail. 3. Admission Application: In this section, admin can view all application. Admin can view application and documents on the basis of status (pending application, approved an application and reject application). Admin also can approve pending application. 4. Search Application: In this section, admin can search application on the basis of user name, email id, and contact number. 5. Course: In this section, admin can manage courses (add and update). 6. Notice: In this section, admin can manage notice (add and update) and anybody see this notice on the website. 7. Notification: In this section, admin

	gets the notification if any users apply for admission.
Finance and Accounts	1) Ledger creation You can easily create ledger accounts for all the suppliers and vendors of the school or college. 2) Posting Accounting entries You can create following accounting transactions in this software: Accounts Vouchers: Receipt Payment Debit/credit note Detail payment/ Receipt Bank Reconciliation 3) Reports Following are the reports that are generated automatically by accounting module: Ledger: Trial Balance Income/ expenditure statement Books of accounts: Ledger (multiple accounts) Cash/bank book Sale register Purchase register Bank Reconciliation Statement Outstanding collection Analysis: Receivable amount Payable amount Collection Sheet Outstanding aging analysis Cash receipt report
Examination	Examination system manages examination work and conduct that has to be executed before the start of the examination process. With the use of examination management system, examination management related arrangements like time-table, hall tickets, allotments and attendance sheets can be organized efficiently. Examination module manages post-exam work routine also this is inclusive of mark entries, reports and valuations. The following are the important modules of examination automation software, ? Students data entry ? Exam Seat Allotment ? Subject-wise registration of students ? Examination timetable and hall ticket ? Student count reports ? Seat arrangement ? Entry of absenteeism and unfair means entry ? Result analysis reports

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Dr.S.Sridevi	Recent trends in Nanophotonics	Mahendra Engineering College	300
2018	Mr.B.Prasad	International Test Conference	ITC India, Bangalore	6700

2018	Dr.S.Venkatesh	AICTE Stack holds workshop	AICTE, Chennai	400
2018	Mr.Karthick	Build Expo	Civil Engineers Association, Salem	3700
2019	Dr.S.Venkatesh	National Conference on Indian Higher Education : Challenges of Quality Brand Building	EPSI, Bengaluru	400
2019	Mr. B.Prasad	National Seminar on Smart Materials	CSIR	300
2019	Dr.S.Venkatesh	Workshop on AICTE Hand Book 2019-2020	Anna University, Chennai	700
2019	Mr.Sankar	AICTE Hand Book 2019-2020	Anna University, Chennai	700
2019	P.Balamurugan	2ndInternational Conference on New Frontiers in Chemical, Energy and Environmental Engineering (INCEEE-2019),	Department of Chemical Engineering, NIT Warangal	800
2019	Mr.R.Prabhakar	Artificial Intelligence	Bennet University, Noida – Rajalakshmi Engineering College, Chennai	1200

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Faculty Orientation Programme	-	05/06/2018	06/06/2018	82	0
2018	Pedagogy Training Programme	-	06/08/2018	06/08/2018	82	0

2018	-	Supporting Staff Orientation Programme	06/07/2018	06/07/2018	0	23
2018	-	MIS Skill Training Programme	06/08/2018	06/08/2018	0	23
2019	Pedagogy Training Programme	-	08/01/2019	09/01/2019	86	0
2018	Inaugration of IE(E) students Technical Association	-	10/09/2018	10/09/2018	15	0
2018	Internal FDP	-	04/12/2018	06/12/2018	15	0

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Train the Trainer program for STE SDC course by Tessolve Semiconductor Pvt. Ltd., Bangalore	1	06/05/2019	10/05/2019	5
Big Data Analytics Approach for efficient information retrieval of network flow data using Deep learning technique – A Survey	2	04/01/2019	05/01/2019	2
PCB Design	2	14/11/2018	15/11/2018	2
RTL Design Functional Test Webinar - Maven Silicon	2	01/07/2018	02/07/2018	2
Deep Learning Using Tensorflow with	1	20/09/2018	20/09/2018	1

Keras				
Nano Technology for Industrial Applications	1	02/08/2018	02/08/2018	1
Short Term Training Program	1	21/11/2018	21/11/2018	1
Micro Machining and its Optimization	1	04/12/2018	05/12/2018	2

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
17	17	2	2

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Financial support for attending Workshop/ Seminar/Conference etc. PF	PF	Insurance

6.4 – Financial Management and Resource Mobilization

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

? The institution has a pre-defined mechanism for the effective deployment of financial resources. ? There is a completely-computerized accounts department in the college which careful handles the collection of tuition fees through Demand Draft, salary distribution, tax payment, loan distribution, purchase orders for the laboratory equipment, teaching aids, furniture, payment of bills and maintaining the department budget allocation and expenditure etc. ? Every financial transaction is supported by the vouchers. ? All the collections are deposited in the banks through authorized persons and the expenditure both recurring and non-recurring are incurred through cheques. ? A transparent procedure is adopted by the account section of institution where each credit and debit is recorded. ? The college has a systematic mechanism for auditing the accounts. ? The accounts and procedures of internal control of finance are carried out by the Accounts Department on a day to day basis and annual audit is done by the legal auditor. ? Mr. R. Suresh and Mr. G. Ranganathan from Ranganathan Company are the authorized auditors of the institution. The auditor ensures that all payments are duly authorized. ? The audit of accounts and submission of income tax returns are being carried out regularly each year. ? Last audit was done in the month of August 2019 and there were no audit objections since the institution follows a organized system of internal control. ? After the audit, the report is sent to the Management for review and later the Balance sheet is submitted to the respective government authorities in order to maintain the transparent financial transactions.

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

Dhiraj Foundation	18597250	Students Scholarships
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6.4.3 – Total corpus fund generated

44216699

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	No		Yes	Dr.S.Rajendran
Administrative	Yes	Mr. Ranganathan	Yes	Ms.Rajeshwari Mr.Mahendran

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

The PTA also aims at enhancing the interaction among the various stakeholders. Providing important implication for development of the institution Pointing out the weaknesses of the college related Departments and suggesting rectification. Communicating views which the students feel shy to communicate directly to the teachers about the College and the department. Conducted Parent – Teacher meeting (1st years) on 25.11.2018 Conducted Parent – Teacher meeting (2nd to 4th year) on 09.09.2018 Conducted Parent – Teacher meeting (2nd to 4th year) on 05.09.2019

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

Training program conducted on servicing on ECE Equipments on 27.04.2019
Training program conducted on servicing on ECE Equipments on 15.07.2019
Training program conducted on Rectifier unit for EEE staff on 14.05.2019
Workshop conducted on networking for CSE staff on 21.12.18 22.12.18

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

1. Various batches of alumni have been contacted for strengthening the alumni contribution. 2. Up gradation of present syllabus to suit the need of employability through board of studies is sought for. 3. Planning is underway to adopt nearby villages to enhance water conservation, social upliftment etc.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	No
b)Participation in NIRF	No
c)ISO certification	No
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	NBA Awareness Program	07/11/2019	07/11/2019	08/11/2019	45
2019	Teaching Learning Methods	29/06/2019	29/06/2019	29/06/2019	50

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
NAKSHATRA '19	13/01/2019	13/01/2019	19	31
BRAVE	11/09/2018	11/09/2018	5	5
RACE	05/09/2018	05/09/2018	7	5
EMPAZER	07/09/2018	07/09/2018	8	10
FLAME	30/08/2018	30/08/2018	1	9
SCYPEE	10/09/2018	10/09/2018	3	10

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
20.62 Power requirement met by renewable energy sources - 25KW Total power requirement - 87.27 KW Renewable energy source - 25 KW Renewable energy generated and used - 18 KW Energy supplied to the grid - NIL

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	No	0
Rest Rooms	Yes	1
Scribes for examination	No	0
Special skill development for differently abled students	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	18/12/2019	3	State level Enrichment Program for	Enrichment	120

					school Teachers		
2019	1	1	02/02/2019	1	Blood Donation camp	Health	100
2019	1	1	26/06/2019	2	12th New Text book Teachers Training program	New Syllabus Issues	163
2019	1	1	04/07/2019	1	12th New Text book Teachers Training program	New Syllabus Issues	161
2019	1	1	23/10/2019	2	12th New Text book Teachers Training program	New Syllabus Issues	109
2019	1	1	29/10/2019	2	12th New Text book Teachers Training program	New Syllabus Issues	121
2019	1	1	31/10/2019	2	12th New Text book Teachers Training program	New Syllabus Issues	108

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

Title	Date of publication	Follow up(max 100 words)
Fresher’s Guide – B.E. Program (Code of Conduct - Rules Regulations)	06/08/2019	Fresher’s Guide was provided to the students in order to know the Vision and Mission of our Institution. Fresher’s Guide composed of the detailed flowcharts towards the Academic Schedule, Curriculum and Scheme of internal assessment existed in the Institution. Introduction to the Management, Principal, and Heads of various departments, Faculties and the responsibilities of the Faculty Members are also entitled. Apart from curriculum, Various Clubs

		and Cells activities are mentioned with the respective in charges which creates the students to participate enthusiastically. This guide helps to know the role of an Engineer, a set of Rules and Regulations also dress code to be followed by the students with in the campus. More information's like Career guidance, Learning pyramid, Bloom's Taxonomy etc… are also explained in this guide, which is very much helpful to the student's community.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Mind with values	24/10/2018	24/10/2018	254
Cyclathon	06/11/2018	06/11/2018	186
Blood donation	02/02/2019	02/02/2019	106
Inaugurate and Installation of 3rd Rotract Club	18/10/2019	18/10/2019	50

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

• Plastics are banned inside the campus • Rain water harvesting • Greeneries • Recycled water used for lawns/ plants / trees • LED lights with solar power

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practices - 2018 – 19 Practice - 1: Ideation Innovation and Incubation Centre (IIIC) Objective: • To create an environment to enable students to ideate and innovate • To incubate the ideas into projects and further as products • To provide a supporting system to promote entrepreneurship culture in the campus • To enable students to participate in project contests and start ups The Context: Students are encouraged to apply the technical knowledge learnt in the engineering programs and provide solutions for societal needs and real time problems. An environment that encourages students to come up with innovative ideas is required. Further, support is required to turn these ideas into products or carry out research work. It is necessary to strengthen entrepreneurs through proper mentorship and networks. The Practice: • The IIIC centre was established with a focus to encourage ideation and innovation among students. Every year student project expo is conducted in the campus and best projects are identified to be displayed in the centre. Resource persons from industry and experts visit the centre, and give students guidance and suggestions. • Projects that can be converted into products are identified and funding is arranged through college or other agencies. • Seminars and workshops for entrepreneurship development are organized periodically in the campus,

wherein students are motivated to take up entrepreneurship and, opportunities for mentorship and networking is provided. • Support for identifying funding for the startups and a platform to promote their products is also given. • Students are encouraged to participate in project contests and symposiums organized by other institutes. Evidence of Success: • Project expo is being conducted every year and innovative projects being area displayed by the students. Resource persons from industry and experts evaluate the projects and also give suggestions to students. Some of the best projects identified and maintained in the IIIC. • Approximately 5 startups have been created in the past 3 years. • Funding for startup has been received from the management as well as venture capitalists. • Many entrepreneurial activities have been organized in the campus and students are also encouraged to participate in activities organized outside the campus. • Many students have participated and won accolades from other institutes for their projects every year. Problems encountered and resource required: • Getting funding for the startup ventures • Students balancing the academic activity with the co-curricular activity • Identifying resource persons and getting funds for the activities • Resource person for maintaining the IIIC cell which is interdisciplinary in nature Practice - 2: Green initiatives and usage of renewable energy Objective: • Recycling of sewage water and hence reduction in requirement of fresh water • Enhanced rainwater harvesting to supplement the water needs • Improved usage of green stationary (papers and note books) for office and students The Context: Considering the drastic decrease in ground water level in the recent past, measures are devised to minimize the demand of water. The Sewage Treatment Plant (STP) is set up to recycle the used water. Rainwater harvesting is carried out to meet the water requirements of the institution. With the procurement and usage of green materials carbon footprint is reduced. The Practice: STP with a capacity of 80,00,000 litres per annum is installed and the same is used for toilet flushing and gardening purposes. Excess water flow during rainy season is collected in rainwater harvesting units and stored which supplements the water needs. From this harvest we get 5.29 MLD from roof and this rain water which is collected is diverted to two areas, in which 2.5 MLD is let into the sump directly with screening for the daily usage purpose. Also by the surface rain water harvesting we are getting 10 MLD which is collected in the collection pond and it is used for the gardening purpose and other various purpose as well as for the groundwater recharging. Usage of green stationary for office and students minimizes the wastage of natural resources like water and wood, and also improves the brand images. Awareness among faculty and students created on usage of green materials. Usage of stainless steel plates for lunch incorporated in the canteen and hostels. Evidence of Success: • 30 of water requirement is met through recycled STP water. • Per year procurement of 3000 notebooks gives 50 saving of cost on stationary. • Procurement of plastic plates is avoided. Problems encountered and resource required: • Initial investment and operation cost for establishment and maintenance of STP and rain water harvesting. • Manpower requirement for operation and maintenance. • Identifying the suppliers for green materials.

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

http://www.dgct.ac.in/naac/best-practices/

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

Industry Institute Interaction- II DGCT was established in the year 2011 and in-line with the vision and mission of the institute there is a strong focus on Industry Institute interaction. All the engineering programs offered in the

campus have MoU’s with major industries such as Mukhesh Associates for Advanced Surveying and Highway Engineering, CISCO networking academy for Networking, SKYFi Labs for IoT, National Instruments Systems (India) Pvt. Ltd. for NI LabVIEW Academy, NIRT Renewable Energy Pvt. Ltd. for renewable Energy, Precision Camshafts Ltd., DMW CNC centre and Aero space Engineers Pvt. Ltd. for CNC, with a total of 22 MoU’s. The MoU’s are actively taken up and benefit the student community, institute and the industry. The various activities taken up as a result of the MoU’s are: - Establishment of industry based labs to train the students for specific skillset requirement of the industry. These labs also give the students awareness of industry practices. Some of the labs that have been established are Tessolve Semiconductor Test Engineering Lab in collaboration with Tessolve Semiconductor Pvt. Ltd., App Development Lab with LearnFlow Eduguru Pvt. Ltd., Advanced Surveying lab with Mukhesh Associates, Product design and Development Centre with Aero space Engineers Pvt. Ltd. and Precision Camshafts Ltd., _LED Luminaries, Fabrication and Testing Lab with Mega Tech Scientific Instruments Pvt. Ltd. and Texas Instruments Innovation Lab with Steps Knowledge Services Pvt. Ltd. - Provide training to the faculty members (train the trainer) by the industry - Offer value added programs to students and train them on the latest trends and requirements of industry - Organize guest lectures, seminars, workshops by industry experts, thereby giving students an exposure and awareness of latest industry trends - Enable students to participate in industry organized contests - Facilitate students to undergo internships and get hands on training in industries - Enable students to carry out industry based real time projects in the final year The outcome of the above mentioned practices has resulted in creating competent engineers who are industry ready and many students have been placed in core companies. The training to faculty members has enabled in empowering them to train students for industry needs and, in delivering courses with a better understanding and industry perspective as well. The institute had arranged various seminars and workshops programs by industry experts. Students have also participated in industry based contests. Students have the opportunity to undergone internships in industries and many have converted it into job opportunities.

Provide the weblink of the institution
http://dgct.ac.in/naac/institution-distinctiveness/

8.Future Plans of Actions for Next Academic Year

The major areas focused in future plan of our Dhirajlal Gandhi College of Technology are as follows: • Academics 1. Introduce Induction Programme/Bridge course for first year students to make the students feel comfortable in their new environment. 2. To organize interdisciplinary seminars, workshops, conferences. 3. Conducting more VAPs and extra courses pertaining to the industrial requirements. • Development programmes and collaborations 1. To increase the number of collaborations with industries and other universities. 2. To establish faculty and student exchange programmes with industries. 3. Each department should organize more Conference / workshops / FDP programmes. 4. More number of students should be encouraged to undergo implant training / internship / industrial projects. • Research and innovations 1. To explore possibilities for active industry participation. 2. To increase the number of patent applications. 3. To increase publication of research papers in reputed journals with good impact factor. 4. Search for funding from reputed industry and corporate houses related to research projects. 5. Increase the number of research proposals to funding agencies will be increased. 6. Each department should have ongoing industrial consultancy work. • Institutional social responsibility 1. Eco friendly measures to be adopted. 2. To organize more community service activities to contribute to the wellness of the society. 3. To implement the existing awareness programmes on environmental issues. • Welfare programmes 1. To increase number of student internships, to support financially weak students, help

students with very serious medical crisis. 2. In order to motivate students Socially Relevant Projects have been designed and initiated. 3. To improve the mentoring system in higher level to address student grievances and redressed the today’s issues affecting students activities, attitude and personal behaviors. • Administrative 1. To enhance infrastructural development. 2. Ensuring interactive feedback, analysis monitoring. 3. Offer specific and targeted training to teachers, staffs and students. 4. Academic audit (Internal/External) for continuous of academic up gradation. 5. To improve e-based system for different administrative processes like, admission, result publication, etc. • Placement and Training 1. The technical requirements and industrial expectations are to be highly focused and the training plan shall be derived. 2. More number of students should be placed with medium salary of 4 lakhs per annum 3. More students should get eligible scores in competitive examinations like GATE, Tofel, CAT, MAT, etc., 4. Some more students should be motivated / trained to become an entrepreneur. 5. Enhance the start-up activities and streamline a process for selection of start-ups. • Institution Accreditation status 1. The NAAC accreditation status is planned to upgrade by improving the qualitative and quantitative metrics. 2. Prepare the institution for obtaining autonomous status. Autonomous status gives Colleges the academic freedom to design their own course and assessment procedure.