Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**DON BOSCO INSTITUTE OF TECHNOLOGY**
Name of the head of the Institution	**Prasanna Nambiar**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**02268878700**
Mobile no.	**9820080079**
Registered Email	**dbit@dbit.in**
Alternate Email	**principal.dbit@dbclmumbai.org**
Address	**Premier Automobiles Road Opp. HDIL Premier Exotica,**
City/Town	**Mumbai**
State/UT	**Maharashtra**
Pincode	**400070**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr. Sudhakar Mande**
Phone no/Alternate Phone no.	**02268878701**
Mobile no.	**9867285270**
Registered Email	**dbit@dbit.in**
Alternate Email	**iqac.dbit@dbclmumbai.org**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://www.dbit.in

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.dbit.in

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**B++**	**2.87**	**2019**	**28-Mar-2019**	**27-Mar-2024**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**17-Jul-2017**

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
Initiative to improve quality of MIS system.	**03-Dec-2019** **21**	**82**

Mapping of various process on the requirements of NBA and ISO 9001:2015		29-Aug-2019 89		20
How to improve the quality of framing Course Outcome.		03-Dec-2019 46		82
How to improve quality of writing a technical paper.		01-Jun-2020 197		430
[View File](#)				

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Don Bosco Institute of Technology - BHS - Sameer U Hadkar	Minor Research Grant	UGC	2019 280	50000
Don Bosco Institute of Technology - Mechanical - Nakka Muralidhara Rao	Minor Research	UGC	2019 280	35000
Don Bosco Institute of Technology - BSH - Kartiki . Anilkumar.Bhave	Minor Research	UGC	2019 280	55000
Don Bosco Institute of Technology - Mechanical - Sheravi Sachin Satapa	Minor Research	UGC	2019 280	35000
Don Bosco Institute of Technology - Mechanical - Mahesh M Rajwade	Minor Research	UGC	2019 280	55000
Don Bosco Institute of Technology - Computer - Kalpita Ajinkya Wagaskar	Minor Research	UGC	2019 280	15000
Don Bosco	Minor Research	UGC	2019	20000

				280	
Institute of Technology - Computer - Mayura Harshal Gavhane					
Don Bosco Institute of Technology - Information Tech. - Uday Nayak	Minor Research	UGC	2019 280	34000	
Don Bosco Institute of Technology - E & TC - Sudhakar Mande	Minor Research	UGC	2019 280	35000	
Don Bosco Institute of Technology - E & TC - Satishkumar S Chavan	Minor Research	UGC	2019 280	25000	

View File

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

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

1) Quality Improvement of the Teaching Learning Content to be uploaded on the LMS Moodle.

2) Quality Improvement of mentoring process .

3) Quality Improvement of the Final year project related Technical Paper.

4) Quality Improvement of students and faculty entrepreneurship through training and internship.
5) Improvement of students problem solving ability through problem based learning (PBL).

No Files Uploaded !!!

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
Design of Formal course onProblem Solving Techniques for students of first year and second year.	Improvement in student performance in End - Semester exam.
Creation of formal course on Research and Technical Paper .	Technical magazine comprising of papers based on students' projects.
SOP for content creation on moodle was created and shared with faculty.	Standardization of moodle content and adherence to curriculum.
Creation of website on mentoring	Easy access to mentors and mentees. Confidentiality of data, availability of mentors even after college hours.
Training on Entrepreneurship for students and faculty.	Students participation in Hackathons. Prizes won by student teams.
No Files Uploaded !!!	

14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
College Development Committee	19-Mar-2021

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	19-Nov-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	18-Jan-2020
17. Does the Institution have Management	Yes

Information System ?	
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	The institute has a fully functional Management Information System (MIS) which provides the following features: 1. The HOD and class teachers have the right to assign the students to create practical batches 2. This system captures the lecture/lab/ tutorial attendance of the students and providing a report regarding the same. The irregular student list is generated. 3. The staff biometric attendance module is interfaced with this system and it provides a monthly report. 4. The staff leave module allows the staff to apply for various leaves and get them sanctioned. 5. The teaching , lesson and practical plan module allows the teachers to prepare their course plans. 6. It also provides a facility to enter the student marks of the internal assessment test. 7. MIS facilitates to collect teachers feedback from students.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

The Planning of curriculum begins with review of the syllabus and mapping of the Course Outcomes with the Programme Outcomes. The GAPS in the curriculum are identified and activities are planned at First to Final Year Programme level to bridge the gaps. The process followed after this is as follows: • Each faculty member plans curriculum delivery by preparing Teaching, Lesson and the Practical plan at the beginning of the semester. • Faculties prepare the course plan with various curricular and co-curricular activities to address the gaps. • Faculties upload their course material like Teaching Plan, Assessment Plan, Lecture Notes, etc. on the Learning Management System MOODLE site for students for e-learning, self study and on the institute's MIS portal for academic monitoring. The process for curriculum delivery is as follows: • In the very first session the students are explained the importance of the course and course outcomes are shared • A pre-requisite test is conducted to assess students preparedness for the new course • Different pedagogies are adopted to make the classroom sessions interesting, lively and interactive • Attainment of learning outcomes is measured at the end of every class, formally or informally, and bright and weak students are identified • Individual and group assignments are given to the students. Bright students are given challenging assignments and assessed regularly and feedback is given to the students. • Expert lecture sessions are organised by inviting senior faculty, alumni or industry experts to give students an understanding of industrial applications • Internal Assessment tests are conducted twice every semester as per the University norms. • Remedial classes are conducted for students performing poorly in the tests are counselled and mentored and extra sessions are

conducted for them • Student attendance is continuously monitored and uploaded on MIS. Students with poor attendance are counselled. Parents are also informed about their ward's attendance. Disciplinary action is taken in cases of chronic absenteeism • Course exit survey is carried out to gather student's feedback about the course content, delivery, use of different pedagogies, types of assignments, etc. and is crucial in improving the course delivery in subsequent sessions • Institute's academic calendar is prepared according to the notices and circulars received from the affiliating university and the students are notified about the probable teaching days and dates of internal examinations, extension related activities and co-curricular activities. • Every department maintains the record of the lectures conducted, student attendance, assessments, co-curricular activity, departmental activity, audit reports etc. • Faculty feedback is gathered through an online feedback document. Faculty classroom engagement is also gathered through PEER REVIEW and suggestions are given for improving classroom teaching • Academic Monitoring Committee meets every fortnight to monitor the academics and deliberate on better methods to improve student engagement. The committee also keeps a vigilant eye on the results, departmental proceedings and student needs and also keeps record of the different activities regarding teaching-learning, development and improvements of different methods of effective curriculum delivery.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Practical Web Development (UDEMY)	NA	14/05/2020	14	Employabil ity	Skill Enhancement
Data Collection and Processing with Python (Coursera)	NA	16/05/2020	21	Employabil ity	Skill Enhancement
Foundation course in Mathematics	NA	31/08/2019	15	Employabil ity	Developing skills required for aptitude and competitive exams
Android Course	NA	05/09/2019	15	Employabil ity	Android Technology
Responsive Website Basics (Coursera)	NA	09/06/2020	14	Employabil ity	Skill Enhancement
The Complete JavaScript Course 2020 (UDEMY)	NA	13/02/2020	28	Employabil ity	Skill Enhancement
Learn Python Programming	NA	23/03/2020	21	Employabil ity	Skill Enhancement

Masterclass (UDEMY)					
Scrum Cert ification	NA	01/04/2020	28	Employabil ity	Skill Enhancement
SOC design	NA	19/02/2020	14	Employabil ity	Skill Enhancement
Entreprene urship development programme	NA	26/01/2020	14	Entreprene urship	Idea generation, feasibility of idea, lean canvass model
Machine Learning A-Z ™ - Hands-on Python R in Data Science (UDEMY)	NA	05/04/2020	25	Employabil ity	Skill Enhancement
Responsive Website Basics: Code with HTML, CSS, and JavaScript (Coursera)	NA	09/05/2020	14	Employabil ity	Skill Enhancement
Web Design: JS , CSS,HTML(Cou rsera)	NA	13/05/2020	14	Employabil ity	Skill Enhancement
Python Classes and Inheritance (Coursera)	NA	04/05/2020	21	Employabil ity	Skill Enhancement
Introduction to Web Development (Coursera)	NA	14/04/2020	42	Employabil ity	Skill Enhancement
Responsive Web Design (Coursera)	NA	30/04/2020	28	Employabil ity	Skill Enhancement
App development (Coursera)	NA	06/04/2020	56	Employabil ity	Skill Enhancement
Introduction to Meteor.js Development(Coursera)	NA	05/05/2020	28	Employabil ity	Skill Enhancement
the data scientists toolbox (Coursera)	NA	06/12/2020	28	Employabil ity	Skill Enhancement

Course		Date	Duration		
The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert (UDEMY)	NA	06/05/2020	28	Employability	Skill Enhancement
Introduction to data science in python (Coursera)	NA	07/12/2020	28	Employability	Skill Enhancement
Python Functions, Files, and Dictionaries (Coursera)	NA	07/05/2020	28	Employability	Skill Enhancement
SQL for data science (Coursera)	NA	04/05/2020	28	Employability	Skill Enhancement
Introduction to Machine Learning(Coursera)	NA	04/05/2020	28	Employability	Skill Enhancement
Fundamentals of Graphic Design(Coursera)	NA	05/05/2020	28	Employability	Skill Enhancement
HTML, CSS, and Javascript for Web Developers (Coursera)	NA	08/05/2020	35	Employability	Skill Enhancement
Programming Foundations with Javascript, HTML, CSS (Coursera)	NA	15/05/2020	28	Employability	Skill Enhancement
Neural Networks and Deep Learning (Coursera)	NA	16/05/2020	28	Employability	Skill Enhancement
Machine Learning For All(Coursera)	NA	16/05/2020	28	Employability	Skill Enhancement

Python (UDEMY)	NA	24/05/2020	14	Employability	Skill Enhancement
Programming for Everybody (Getting Started with Python)(Cour sera)	NA	19/04/2020	49	Employability	Skill Enhancement
Data Science Math Skills(Cours era)	NA	11/05/2020	28	Employability	Skill Enhancement
Natural Language Processing in TensorFlow (Coursera)	NA	15/05/2020	28	Employability	Skill Enhancement
Introduction to Tensorflow for Artificial Intelligence, Machine Learning and Deep Learning (Coursera)	NA	18/05/2020	28	Employability	Skill Enhancement
Introduction to Cybersecu rity Tools Cyber Attack s(Coursera)	NA	26/05/2020	21	Employability	Skill Enhancement
Python Data Structures (Coursera)	NA	20/05/2020	35	Employability	Skill Enhancement
Fundamentals of digital m arketing(Goo gle-Digital Unlocked)	NA	05/06/2020	21	Employability	Skill Enhancement
Fundamentals of UX/UI (Coursera)	NA	02/06/2020	28	Employability	Skill Enhancement
Visual elements of	NA	02/06/2020	28	Employability	Skill Enhancement

UI design (Coursera)					
Machine Learning Foundation: A Case Study Approach (Coursera)	NA	22/05/2020	42	Employability	Skill Enhancement
Introduction to html5 (Coursera)	NA	14/06/2020	14	Employability	Skill Enhancement
Discrete Math and Analyzing Social Graphs(Coursera)	NA	25/05/2020	42	Employability	Skill Enhancement
Complete Python Bootcamp: Go from zero to hero in Python 3(UDEMY)	NA	29/12/2019	14	Employability	Skill Enhancement
The Ultimate guide to game development with Unity (UDEMY)	NA	18/12/2019	21	Employability	Skill Enhancement
Machine Learnong A-Z: Hands on Python R in Data Science (UDEMY)	NA	18/12/2020	21	Employability	Skill Enhancement
Growth Hacking with Digital Marketing (Version 7.1)(UDEMY)	NA	12/03/2020	10	Employability	Skill Enhancement
Python A-Z Course for Beginners (UDEMY)	NA	08/04/2020	4	Employability	Skill Enhancement
The complete cyber security course: Network Security	NA	24/12/2019	12	Employability	Skill Enhancement

(UDEMY)					
c# Unity Developer 2D:Learn to Code making games(UDEMY)	NA	07/12/2019	28	Employabil ity	Skill Enhancement
Python A-Z Course for Beginners (UDEMY)	NA	08/04/2020	4	Employabil ity	Skill Enhancement

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	Mechanical Engg	01/07/2019
BE	Information Technology	01/07/2019
BE	Electronics and Telecommunication	01/07/2019
BE	Computer Engg	01/07/2019
	View File	

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

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Computer Engg	01/07/2019
BE	Electronics and Telecommunication	01/07/2019
BE	Information Technology	01/07/2019
BE	Mechanical Engg	01/07/2019

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

	Certificate	Diploma Course
Number of Students	161	Nil

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
Machine Learning using Python	05/09/2019	33
Basic PLC and Sensors	05/09/2019	40
FPGA Based Digital System Design Using Xilinx	03/09/2019	20
Red Hat Linux System Administrator	03/09/2019	13
	View File	

1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Electronics and Telecommunication	43
BE	Information Technology	26
BE	Mechanical Engg	70
BE	Computer Engg	20
[View File](#)		

1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

The institute has been able to set up a robust feedback system by which feedback is gathered from all stakeholders which includes students, parents, teachers, alumni and employers. The institute follows the PDCA cycle (Plan-Do-Check-Act) to use feedback as a tool to improve the academics on campus. The parameters that are assessed during the feedback are as follows: • Classroom teaching learning: By students and Peer faculty • Classroom facilities and Lab equipment: Students, alumni, Industry Employers Academic Advisory Committee • Infrastructure and other facilities: Students, parents, employers, faculty • Curriculum : Students, alumni, Academic advisory board, parents • Co-curricular and extra-curricular activities and placement: Students, parents, Academic Advisory Board, Employers • Programme outcomes: By employers, alumni, parents Formats are designed for each of the above and the data is analyzed to further improve the systems The feedback form for parents and students is made available on the DBIT website (https://www.dbit.in). Analysis and Utilization of feedback: The student's feedback is taken twice a semester for all the theory and practical courses taught in the semester. The parameters included are: • syllabus and its adequacy • teaching methodologies adopted by the teachers • Breadth of knowledge of teacher and ability to relate with practical w • teachers approachability and response towards students • teachers ability to teach a subject and control the class • syllabus coverage and the organisation of lectures • use of modern tools of pedagogy etc. Student feedback is analyzed and utilized for the following: • Setting institute benchmarks for teaching-learning • Counseling below average performers and motivating and assisting them to improve their classroom engagement • Improving laboratory facilities • Motivating faculty to engage better with industry. Parental feedback: • The feedback from the parents helps the Institute immensely in reorienting the administration, the skill development, appropriateness of the courses for career growth of their ward, overall progress of their ward, adequacy of facilities like canteen, toilets, drinking water, etc. Alumni feedback: • The Feedback from Alumni is sought (after graduation) about the role played by the institute for the progress of students in their career • the impact of training provided by the college • the enhancement in their maturity and confidence levels • refinement in their

technical, decision-making and presentation skills at the workplace. The Employers feedback: • underlines the assessment parameters of the student in the form of subject knowledge, attitude, behaviour, maturity, motivation, creativity, presentation skills and ability to get along with others. • The analysis of this feedback helps the institute in reviewing the various certificate courses value added courses and skill development training.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	EXTC(320837210)	Nill	Nill	Nill
BE	COMP(320824510)	Nill	Nill	Nill
BE	IT(320824610)	Nill	Nill	Nill
BE	MECH(320861210)	Nill	Nill	Nill
MMS	MB3208	Nill	Nill	Nill
View File				

2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	1113	60	76	6	Nill

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
82	82	74	17	2	25
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)

DBIT established a formal student mentoring system in 2015-16, though informal mentoring on a case to case basis was being done since the inception of the college in 2001. A Mentoring Committee has been constituted at the institute level to monitor the mentoring activities in the individual departments and to ensure that information is shared as also the best practices. The objectives of the mentoring committee are as follows: • To support students emotionally and academically as they make the transition from a exam centric educational system in their STD 12 to a knowledge and skill based education in Engineering • To understand students aspirations and aptitude • To follow up on the students academics and attendance • To encourage them to seek help for

personal issues like relationships, peer and parental pressure, addiction, stress, etc. • To help students identify support systems for their academic progress and overall development so that they excel as engineers The campus has a priest who is named as the CAMPUS MINISTER. Two professional psychologists are appointed on part time basis as COUNSELLORS. At the beginning of the Academic Year the Counsellors meet with the members of the Mentoring Committee to plan the activities for the year. The mentoring process adopted is as follows: 1. Allotment of mentees to faculty mentors. Usually 20 mentees are allotted to each mentor 2. Refresher session by the Campus Minister to all faculty on the need for mentoring, mentoring process, need for confidentiality, setting aside biases, etc. 3. Classroom sessions by the Counsellors to appraise students of the need for mentoring and the mentoring process. Special sessions on the following are organised for students in smaller batches: • Peer pressure and addiction • Goal setting, time management and motivation • Professional life skills, attitude building and team building 4. Regular mentoring of students by the faculty mentors to address their issues. If the concerns are serious the student is referred to the Counsellors 5. Counsellors try to resolve the issue and involve parents if required. If the matter cannot be resolved at the counsellors' end the student is advised to seek professional help. Improvements introduced in the mentoring system in 2019-20. 1. A platform has been developed in the Institutes MIS for documenting the relevant details and processes of the mentorship programme - it is operational since January, 2020 2. Audit of the mentoring process has been introduced to ensure that processes are followed 3. Mentee feedback introduced in April 2020 to assess student satisfaction with the mentoring process 4. Sessions by expert psychologists and counselors for faculty and students

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1173	82	1:14

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
67	82	Nill	Nill	15

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Mr. Nilesh Ghavate	Assistant Professor	1st winner in Smart India hackathon 2020, organized by MHRD AICTE, for the problem statement under Tripura Institute of Technology
2020	Dr. Amiya Kumar Tripathy	Professor	Dr. APJ Abdul Kalam National Award for Teaching Research by IISER Bengaluru
2019	Mrs. Namita Agrawal	Assistant Professor	Secured Elite Gold award for NPTEL Online Certification Course on "Stress Management"
2019	Mrs. Namita	Assistant	Secured Elite

	Agrawal	Professor	Gold award for NPTEL Online Certification Course on "Accreditation and Outcome Based Learning"
2019	Mrs. Pratibha Dumane	Assistant Professor	Secured Elite Silver award for NPTEL Online Certification Course on "Patent Drafting for Beginners"
2019	Mrs. Freda Carvalho	Assistant Professor	Secured Elite Silver award for NPTEL Online Certification Course on "Microwave Theory and Techniques".
2019	Mr. Jithin Isaac	Assistant Professor	Secured Elite Silver award for NPTEL Online Certification Course on "Demystifying Networking"
2019	Mr. Jithin Isaac	Assistant Professor	Secured Elite award for NPTEL Online Certification Course on "Python for Data Science".
2019	Mrs. Gejo George	Assistant Professor	Secured Elite Silver award for NPTEL Online Certification Course on "Soft Skills".
2019	Ms. Lakshmi Iyer	Assistant Professor	Secured Elite award for NPTEL Online Certification Course on Introduction to IoT
[View File](#)			

2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination

BE	1T01213	III / Second Year	28/11/2019	18/01/2020
BE	1T01013	III / Second Year	26/11/2019	24/01/2020
BE	1T01423	III / Second Year	26/11/2019	30/01/2020
BE	1T01223	III / Second Year	26/11/2019	18/01/2020
BE	1T00723	III / Second Year	26/11/2019	18/01/2020
BE	1T01023	III / Second Year	26/11/2019	24/01/2020
BE	1T01812	II / First Year	18/12/2019	01/02/2020
BE	1T01822	II / First Year	18/11/2019	23/01/2020
BE	1T01811	I / First Year	29/11/2019	30/01/2020
BE	1T01821	I / First Year	29/11/2019	24/12/2019

[View File](#)

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

The Internal Evaluation mandated by the University of Mumbai comprises of the following: • Internal assessment tests: These are conducted twice a semester. The first test is conducted after completion of 40 of the syllabus and the second test is after completion of at least 70 of the syllabus. The Internal Assessment tests are a separate head of passing and have 20 weightage in the total marks for the subject. • Assessment of term-work: Term work comprises of all the assignments and practicals conducted in the given subject. - Assignments are given to the students regularly to assess the learning outcomes. These are either numerical problems, case- studies, descriptive questions, which the student has to solve and submit within the stipulated time. These are either class assignments or home assignments. Assignment data is varied to ensure that students work on their own without copying from their classmates. Some assignments are team activities like seminars or presentations on the subject. Grades or marks are assigned to each assignment and the cumulative grade is assigned at the end of the term - Quizzes are conducted by the subject teacher at regular intervals to assess learning outcomes. These are either oral or written quizzes and are graded. The online learning platform MOODLE is used to conduct these quizzes - Practicals are conducted in the laboratories. Students work individually or in a team. The faculty evaluates the students for their practical knowledge during the course of the lab work. Students are expected to submit their journal work before the next session. They are graded for their lab work after every practical session and a cumulative grade is assigned at the end of the term. - The term work marks are a separate head of passing. A student who fails to score the minimum marks for passing is detained for that year and has to repeat her term. - In addition, expert lectures, industry visits, seminars, etc , are conducted to broaden the understanding of the course. At the end of each such session, a quiz is conducted to assess student learning. - Students are given a feedback on their performance and are provided all support through remedial sessions, individual counseling to improve their academic grades

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

> The Academic Calendar is prepared at the Institute level at the start of each semester. The advantages of a well planned calendar are : • Semester –level activities are visible at a glance • Balance between curricular, co-curricular and extra-curricular events • Allotment and sharing of resources for various activities • Academic discipline • Adequate budgetary provisions with no wastage of resources • Sharing with all stakeholders While preparing the calendar the following inputs are taken: • Dates prescribed by university for the beginning and end of term • Public holidays prescribed by the university • Dates for the end of semester exams as declared by the university A meeting of the Heads of Department, Deans, Student Council members, IQAC in-charge and CDC representative, Controller of Exams is organised to decide the dates for various academic, co-curricular and extra-curricular activities which are as follows: • Orientation for the newly admitted students • Schedule for the internal assessment tests • Schedule for students feedback • Internal Assessment schedule like conduct of practical exams and viva-voce • Project exhibition • Curricular events of the various clubs and student chapters including technical and cultural festivals • Meeting with parents • Faculty development programmes schedule • Peer review schedule • Meetings of IQAC, CDC, Governing Board • Meetings of the Academic advisory board On the basis of the institute level calendar, the various departments prepare their individual calendars. Likewise the various institute level committees, the exam department and the Students Council prepare their event calendars. Adequate care is taken to ensure that a balance is maintained between the curricular and extra-curricular events. The events are spaced out to ensure participation and reduce crowding of activities. No events are conducted close to the Internal Assessment and Exam dates.

2.6 – Student Performance and Learning Outcomes

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

> https://www.dbit.in/index.php?option=com_content&view=article&id=117&catid=2

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
MB3208	MMS	MMS	59	59	100
320861210	BE	MECH	149	149	100
320824610	BE	IT	80	80	100
320824510	BE	COMP	72	72	100
320837210	BE	EXTC	73	73	100
View File					

2.7 – Student Satisfaction Survey

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

> https://www.dbit.in/index.php?option=com_content&view=article&id=119&catid=2

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
Any Other (Specify)	280	IEEE RAS Chapter	1.43	1.43
Any Other (Specify)	280	IEEE SIGHT MTT-S	3.08	3.08
Minor Projects	280	University of Mumbai	4.14	0
Any Other (Specify)	280	EXIM Bank Mumbai	5	5
		View File		

3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
one week Short Term Training Programme on "ADVANCED MACHINING" was organized by Department of Mechanical Engineering, DBIT	Mechanical	07/09/2019
1 day training program ACRE-SERVEconducted by DBIT ISHRE for service technicians service executives in association with industry experts	Mechanical	10/08/2019
Seminar on The Importance of Cold Chain In India by Mr. Pranav Shah, Sr. Manager at M/s Blue Star Ltd.	Mechanical	30/07/2019
Seminar on Industry 4.0 Decoding the industry norms by Nayan ingole by Mnaging Partner,ETC enginnering Technology LLP	Mechanical	21/08/2019
Seminar on Industry 4.0 Decoding the industry norms by Mahesh kshirsagar, Chief Technology officer,Tata Consultancy Services	Computer	21/08/2019
Seminar on Industry 4.0 Decoding the industry norms by Mahesh	IT	21/08/2019

kshirsagar, Chief Technology officer,Tata Consultancy Services		
Seminar on Industry 4.0 Decoding the industry norms by Hitesh meheta, Managing Derctor ,Fiber Optika,IEEE photonics Society	Electronics and Telecommunication	21/08/2019
e-Innovex Final year Project Exhibition and Compitition in association with industry experts	Mechanical	30/05/2020
e-Innovex Final year Project Exhibition and Compitition in association with industry experts	Computer	31/05/2020
e-Innovex Final year Project Exhibition and Compitition in association with industry experts	IT	31/05/2020
e-Innovex Final year Project Exhibition and Compitition in association with industry experts	Electronics and Telecommunication	30/05/2020
4 days Training Program conducted on "Red Hat Linux System Administrator"in association with Telenetworks Technologies	Electronics and Telecommunication Engineering	07/09/2019
4 days Training program on Basic PLC and Sensors in association with Siemens Ltd., SITRAIN India, Navi Mumbai	Electronics and Telecommunication Engineering	09/09/2019
5 days Certification Course in VLSI Design was conducted in collaboration with EICT Academy, IIT Guwahati from February 19-23, 2020.	Electronics and Telecommunication Engineering	23/02/2020
5 days Certification Course on Artificial Intelligence using Deep Learning' conducted by Research Scholars from IIT Ropar	Electronics and Telecommunication Engineering	24/12/2019

Acadamic Advisory Meeting in association with stakeholders the board Members Dr. R.Balasubramaniam, Head, Precision Machining Section, BARC, Mumbai, Dr. T. A. Dwarakanath,Division of Robotics and Remote Handling, BARC, Mumbai, alumni Mr. Harsh Gulat	Mechanical	20/02/2020
Acadamic Advisory Meeting in association with stakeholder 1. Dr. Radha Shankarmani, Sardar Patel Institute of Technology 2. Mr. Chetan Modi, Vice President at Credit Suisse	IT	19/08/2019
Acadamic Advisory Meeting in association with stakeholder,Mr. Atul Gandre, Global Technology Head - IBM Mr. Sujeetkumar Sinha, Sr. Technical Analyst Colgate Global Business Services Pvt. Ltd. Mr. Thomas Lobo, Founder CEO at Roots2Wings Training So	Computer	10/08/2019
Acadamic Advisory Meeting in association with stakeholder,. Mr. Atul Gandre, Global Technology Head -IBM 2. Dr. S. Biswas, Professor, IIT, Bombay 3. Mr. Thomas Lobo, Roots2Wings Training Solutions 4. Mr. Sujeet Sinha, Colgate Global Business Service	Computer	15/02/2020
Acadamic Advisory Meeting in association with stakeholdersDr. Nitin S. Kale CTO, NanoSniff Technologies Pvt. Ltd., Mumbai.Mr. Abhay Phansikar Director, Azilen Technologies. Startupbootcamp FinTechMumbai ,Chair, IEEE Bombay Section,	Electronics and Telecommunication	10/08/2019
Acadamic Advisory Meeting in association with	Electronics and Telecommunication	15/02/2020

stakeholdersDr. Nitin S. Kale CTO, NanoSniff Technologies Pvt. Ltd., Mumbai.Mr. Abhay Phansikar Director, Azilen Technologies. Startupbootcamp FinTech Mumbai Mentor. Chair, IEEE Bombay Section,Mr.			
Make A Thon	Mechanical		04/10/2019
The Facebook Event (Talk on UI, UX and React (Facebook Technologies))Artificial Intelligence Club(DBIT) and the Department of Information Technology(DBIT), in association with Developer Circles Mumbai from Facebook.	Information Technology		30/07/2019
A webinar on Fighting Financial Crimes was conducted by Mr. Mr. Mustafa Fatakdawala. TCS Mumbai	Computer		17/06/2020
Seminar on MEMS and its Applications conducted by Dr. Nitin Kale,Nanosniff Technologies	Electronics and Telecommunication Engineering		30/08/2019
Seminar on Industrial Approach: FPGA and CPLD conducted by Mr. Shirish Joshi,Director, Applied Digital Micro-Systems Pvt. Ltd.	Electronics and Telecommunication Engineering		30/09/2019
Guidance for Start-Up conducted by Mr. Abhay phansikar,Director, Azilen Technologies	Electronics and Telecommunication Engineering		19/09/2019
Seminar on Cyber Security, GRC Information Security Services, Conducted by ,Dr. Nareshkumar Harale,Assistant Vice President, Development Bank of Singapore, Mumbai	Electronics and Telecommunication Engineering		11/10/2019
Seminar VLSI Design Using Open Source,Conducted by Mr. Kunal Ghosh,Director, VLSI System Design Pvt. Ltd	Electronics and Telecommunication Engineering		14/10/2019
Workshop on Fusion	Electronics and		23/09/2019

Splicing and OTDR demo in association with Aditya Infonet, Mumbai	Telecommunication Engineering	
Seminar on Expectations of Corporate Foreign Universities from UG students conducted by Mr. Swapnesh Joseph, AMD, Austin, Texas, USA and DBIT Alumni 2008	Electronics and Telecommunication Engineering	11/07/2019
Seminar on Problem Solving and Stress Management conducted by Mr. Haresh Thakur,Associate Vice President, Wartsila India Pvt. Ltd	Electronics and Telecommunication Engineering	09/08/2019
Seminar on Sequel Circuit Simulation App coducted by Prof. M.B. Patil , IIT, Bombay	Electronics and Telecommunication Engineering	21/08/2019
Seminar on Approach towards the Project Work and its Significance for Placement and Startups conducted by Mr. Kelvin Lewis ,Trainee Engineer at QDnet, Marol, Mumbai	Electronics and Telecommunication Engineering	23/08/2019
Seminar on Mobile Communication: An Industry Perspective (Job Opportunities and Skill Requirements), conducted by Mr. Yogeh Hudale, TeleNetworks Technologies Private Limited, Vashi.	Electronics and Telecommunication Engineering	29/08/2019
Webinar on Critical Media Literacy by Mr. Sagar Gangurde, Director Indian Programs, Seeds of Peace,Mumbai	Electronics and Telecommunication Engineering	27/05/2019
Seminar on Metrics for Enhanced Efficacy, Conducted by,Mr. Abhay Phansikar, Director, Azilen Technologies	Electronics and Telecommunication Engineering	08/11/2019
WEBINAR ON PHYSICS AND ENGINEERING by Satyanarayana Bheesette TIFR,Mumbai	Electronics and Telecommunication Engineering	21/05/2020
"An Expert session on Adaption of Enjoyment in Learning through Gamification and Visual	Electronics and Telecommunication Engineering	16/10/2019

aids was conducted by Dr. Fakhrul Hazman Yusoff, faculty of Computer and Mathematical Science (FSKM) from Universiti Teknology MARA (UiTM) (Malaysia)		
A comprehensive session on Amortized and Probabilistic Analysis and Randomized Algorithm was conducted byby Dr. Supratim Biswas, IIT Bombay	Computer	11/09/2019
"A session on Relationship between RE and compiler design and use of tools to implement FA was conducted by Dr S. Biswas IIT Bombay	Computer	21/08/2019
A session on AI and its Applications and Opportunities in the Industry was conducted by industry expert Mr. Ganesh Bhaskaran	Computer	19/07/2019
Cyber Security and Demonstration of Cyber Security Tools was conducted by Mr. Vicky Fernandese from QRC Consulting and Pvt. Ltd.	Computer	10/09/2019
4 days workshop on Flutter was conducted in association with Vlink India Private Limited, Mumbai	Computer	27/09/2019
Two day workshop on 'TCS – DBIT Techvibes' was organized in collaboration with TCS, Mumai.	Computer	09/01/2020
Seminar on "Life Post Covid" under Webinar Series called "Gain Momentum: Unlock your potential" conducted by Ravish Sahay, SEQUELSTRING SOLUTIONS AND CONSULTANCY PRIVATE LIMITED	Computer	14/06/2020
Seminar on Software carrier option,Mastering the digital transformation Journey by	Computer	17/06/2020

Mr. Shirish Sawant, senior technology leader , Independent Consultant and Former Head of Testing Practise at Majesco MCS Offshore			
Seminar on Mobile Forensics : Opportunities and Challenges by Rizwan Ahemad Industry Expert	Computer	20/06/2020	
Boosting Employability Post Covid by Mr. Rayner DSouza	Computer	21/06/2020	

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
"Pirates of the Paradigm" in KIRAN 2019	Mr. Harshal Rathod, Mr. Cromwel Mendes and Mr. Bhushan Kolhe	Kishinchand Chellaram College, Mumbai	19/09/2019	2nd Rank
International Competition CANSat-2020,	Mr. Sahil Narkar (Dept. Mech Engg.) (9 students from all Department)	American Astronautical Society (AAS) in collaboration with NASA.	14/06/2020	40th Rank ,Globally
QUAD-The Off-Road Championship", held at Bijnor, UP.	Team Xanthium(20 students of Mechanical Department)	6th Edition of Quad Torc organised by ISNEE INDIA at Garage 1 Race Track, Bijnor	11/09/2019	6th Rank in "QUAD-The Off-Road Championship"
Dr. APJ Abdul Kalam National Award	Prof. Amiya Tripathi	International Institute for Social and Economic Reforms (IISER) ,Bengaluru	29/02/2020	Life Time Achievement National Award
Smart India Hackathon 2020	Viraj Tandel,Winston Sequeira, Saurabh Kumar,Sanket Deshmukh,Afif Ahmed, Priya Singh	MHRD-MIC	03/08/2020	Winner of Smart India Hackathon 2020
National Level Poster Competition on Innovative Ideas.	Brayan Dialle, Kevin Dsouza, Ryan Fernandes	IEEE Pune	20/05/2020	Consolation Prize for innovative idea
NPTEL Online Certification	Mrs. Namita Agrawal	NPTEL	16/10/2019	secured Elite Gold award

Course on "Stress Management"				
NPTEL Online Certification Course on "Patent Drafting for Beginners"	MrsMrs. Pratibha Dumane	NPTEL	24/10/2019	secured Elite Silver award
NPTEL Online Certification Course on "Microwave Theory and Techniques".	Mrs. Freda Carvalho	NPTEL	24/10/2019	secured Elite Silver award
NPTEL Online Certification Course on "Demystifying Networking"	Mr. Jithin Isaac	NPTEL	24/10/2019	secured Elite Silver award

[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
NIL	NIL	NIL	NIL	NIL	Nill

[View File](#)

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
2	13	0

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

Name of the Department	Number of PhD's Awarded
No Data Entered/Not Applicable !!!	

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 Telecommunication Engineering	3	4.8
International	Information and Technology01	1	0.15
International	Computer Engineering	1	3.96
International	Basic Sciences and Humanities (BSH)	3	3.01

[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
Electronics and Telecommunication Engineering	7
Mechanical Engineering	2
IT	4
Computer Engineering	34
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
Design of a Sampler circuit for Flash ADC using 45nm Technology	Dr. S.S. Mande	International Journal of Engineering Advanced Technology (IJEAT)	2019	1	Don Bosco Institute of Technology,Mumbai.	1
Recent advances in nano-photocatalysts for organic synthesis	Selvin Rosilda	Arabian Journal of Chemistry	2019	1	Don Bosco Institute of Technology,Mumbai.	21
Enhanced Photocatalytic Behavior of (GO/Cu2O) Composite with Cu2O Being Synthesized Through Green Route	Selvin Rosilda	Journal of Nanoscience and Nanotechnology	2019	1	Don Bosco Institute of Technology,Mumbai.	9
Cu-Doped SnO2 Nanoparticles: Synthesis and Properties	Selvin Rosilda	Journal of Nanoscience and Nanotechnology	2020	1	Don Bosco Institute of Technology,Mumbai.	8
Detecting deviations	Dr. AmiyaKumar Tripathy	Springer Journal of Journal of	2020	1	Don Bosco Institute	1

from activities of daily living routines using kinect depth maps and power consumption data.		Ambient Intelligence and Humanized Computing, 11, 1727-1747			of Technology,Mumbai.	
Computational Techniques for Machine learning	Uday Nayak, Mahalakshmi Sridhar	American journal of Engineering Research	2019	0	Don Bosco Institute of Technology,Mumbai.	Nill
Performance Analysis of Index Modulation	Namita Agrawal	SSRN	2019	0	Don Bosco Institute of Technology,Mumbai.	Nill
Semi-Autonomous bot with PID controlled line following algorithm and Omnidirectional Drive with Electro-Pneumatic Mechanical subsystems	Yogesh Gholap	International Research Journal of Engineering and Technology(IRJET)	2019	0	Don Bosco Institute of Technology, Mumbai	Nill

[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
Recent advances in nano-photocatalysts for organic synthesis	Selvin Rosilda	Arabian Journal of Chemistry	2019	12	21	Don Bosco Institute of Technology, Mumbai.
Enhanced Photocatalytic	Selvin Rosilda	Journal of Nanoscience and N	2019	12	9	Don Bosco Institute

Behavior of (GO/Cu2O) Composite with Cu2O Being Synthesized Through Green Route		anotechnology				of Technology, Mumbai.
Cu-Doped SnO2 Nanoparticles: Synthesis and Properties	Selvin Rosilda	Journal of Nanoscience and Nanotechnology	2019	12	8	Don Bosco Institute of Technology, Mumbai.
Detecting deviations from activities of daily living routines using kinect depth maps and power consumption data.	Dr. AmiyaKumar Tripathy	Springer Journal of Journal of Ambient Intelligence and Humanized Computing, 11, 1727-1747	2020	13	1	Don Bosco Institute of Technology, Mumbai.
Computational Techniques for Machine Learning	Uday Nayak, Mahalakshmi Sridhar	American journal of Engineering Research	2019	Nill	Nill	Don Bosco Institute of Technology, Mumbai.
Performance Analysis of Index Modulation	Namita Agrawal	SSRN	2019	Nill	Nill	Don Bosco Institute of Technology, Mumbai
Semi-Autonomous bot with PID controlled line following algorithm and Omnidirectional Drive with Electro-Pneumatic Mechanical	Yogesh Gholap	International Research Journal of Engineering and Technology(IRJET)	2019	Nill	Nill	Don Bosco Institute of Technology, Mumbai.

subsystems						
Design of a Sampler circuit for Flash ADC using 45nm Technology	Dr. S. S. Mande	International Journal of Engineering Advanced Technology (IJEAT)	2019	5	1	Don Bosco Institute of Technology, Mumbai.

[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	10	54	54	54
Presented papers	22	1	Nill	Nill
Resource persons	4	4	2	5

[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
International Yoga Day 2019 at DBCL campus- "Healthy people Healthy campus	NSS	1	200
6 days Rural Internship program at Walwanda, Jawhar.	NSS	5	9
Technical Project work	NSS	1	1
Bamboo Rakhi project	NSS	1	1
Workshop on Disaster Management preparedness for students and staff	NSS	1	10
Healthy staff Healthy campus HEALTH CHECK-UP CAMP	NSS	1	19
3 Days, DBCL LEADERSHIP CAMP 2019	NSS	1	38

FOOTBALL COACHING	NSS	1	10
Road Safty and traffic control activity	NSS	1	12
Muskan Group career guidance program follow-up meeting	NSS	1	10

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
0	0	0	Nill

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
Swatch Bharat/Health Awareness	NSS	Skill training program for Adolescent girls (Sanitary Pad Making Training)	1	3
Swatch Bharat/Health Awareness	NSS	Distribution of 1000 sanitary pads to girl students in a nearby school as part of the Menstrual Hygiene Awareness Programme in September 2019.	2	8
Swatch Bharat	IEEE HAC (Humanitarian Activities Committee)	Talk by Ms. Freda Carvalho on "Sanitation and Menstrual Hygiene".	3	4
Gender Issue	DBCL	Sexual Harassment of Women at Workplace : A Socio Legal Perspective by Mr. Harish Sadani , Co-	7	181

		founder of MAVA (Men Against Violence and Abuse)		
Health Awareness	DBCL	Yoga, Pranayama and Meditation	7	47
Gender Issue	DBCL	Talk on Women Empowerment	7	81
Swachh Bharat (Community based project)	The Bombay Salesian and Society Department of Mechanical	To design a process that helps an organisation such as a temple manage their floral waste and generate income	1	4
Swachh Bharat (Community based project)	The Bombay Salesian Society ,and Department of Mechanical Engineering	To design smart incinerator with Catalytic Converter attachment, fabricate and test for exhaust emissions for maintaining hygienic living habits	1	4
Swachh Bharat (Community based project)	IEEE Bombay Section and Department of Electronics and telecommunicati on	LoRaWAN Enabled Remote Solar Photo Voltaic Energy Monitoring System	5	4
Swachh Bharat (Community based project)	The Bombay Salesian Society ,and Department of Computer	Solid Waste Management: Green Index Calculation and Route Optimization	1	3
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
Consultancy at Promethean Energy Pvt. Ltd., Turbhe, New Mumbai	1	Self Finance	120
Consultancy at	1	Self Finance	30

Sixth Energy Pvt. Ltd, Bengaluru				
Internship at Lungwa University, Taiwan	2	Self Finance		30
Industrial Visit at Society for Applied Microwave Electronics Engineering Research (SAMEER), Kharghar.	48	Self Finance		1
Consultancy at RadioJitter Pvt. Ltd, Bengaluru, November - December 2019.	2	Self Finance		30
Internship on research activities with our new Hot Stage Polarizing Microscope Department of Physics, Institute of Chemical Technology, Matunga, Mumbai.	2	Self Finance		15
Internship at Industrial Visit to Advantek Air Systems pvt Ltd Thane	13	Self Finance		1
Industrial Visit to Mitsubishi Electric India Pvt. Ltd.	28	Self Finance		1
Industrial Visit to Kruger India Pvt. Ltd on 25th January, 2020	25	Self Finance		1
Internship at Satellite Earth Station,BSNL,Yeoor	4	Self Finance		30
[View File](#)				

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant

Research	Research	SWAYAM NPTEL Local Chapter,IIT Bombay	13/02/2019	Nill	23
Research	Research	Coursera for Business	03/05/2020	03/08/2020	76
Internship Internship	Internship	IMRB International, 3rd Floor, Mhatre Pen Building, Senapati Bapat Road, Mumbai – 28-24323200	Nill	Nill	2
Field Trip /Research	Field Trip /Research	Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE)	Nill	Nill	12
Internship	Internship	Boston Iny Healthcare solutions, Prabhat colony santacruze east Mumbai-400055	Nill	Nill	1
Field Trip	Field Trip	BSNL Satellite earth station, Bendipada, Yeoor Hills, Thane West, Thane, Maharashtra 400610	Nill	Nill	48
Research	Research	School of Science Edith Cowan University, Joondalup Campus, Perth, WA 6027, AUSTRALIA	Nill	Nill	1

[View File](#)

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

Organisation	Date of MoU signed	Purpose/Activities	Number of

			students/teachers participated under MoUs
Radiojitter concepts Lab LLP,: 303 Butterfly Apartment, Panathur Main Rd, Mariyappa Layout, Kadubeesanahalli, Bengaluru, Karnataka 560103	23/02/2019	Guidance for Project Design and Implementation, Internship for students, Expert Lecture and student placement	4
Health Wheel Pvt Ltd,PARKSIDE, III C, 1006 RAHEJA ESTATES, KULUPWADI ,BORIVALI(EAST) MUMBAI Mumbai ,Maharashtra,India,400066	23/05/2019	Exchange of students and faculty,short term summer program, Joint cultural or research program	6
Sequelstrings ,DBCL Campus, Kurla(W), Mumbai	15/06/2019	Student and faculty internship, student and faculty projects	7
Shri Vithal Education and Research Institute's College of Engineering, Pandharpur	23/05/2019	To explore research in the area of microfluidics and develop the Advanced Micro-Machining lab in the department1	1
EICT Academy IIT Guwahati	28/11/2019	Students workshop (skill development) and internship opportunity	25
[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
73.5	147.47

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Others	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Seminar halls with ICT facilities	Existing
Seminar Halls	Existing

Laboratories	Existing
Classrooms with LCD facilities	Existing
Class rooms	Existing
Campus Area	Existing

[View File]

4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Koha	Fully	17.11	2018

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	17117	5118315	417	286028	17534	5404343
Reference Books	1200	4194418	20	107764	1220	4302182
e-Books	19	135361	Nill	Nill	19	135361
Journals	39	70686	19	30315	58	101001
e-Journals	284	675481	284	687512	568	1362993
Digital Database	1	69000	Nill	Nill	1	69000
CD & Video	1203	Nill	Nill	Nill	1203	Nill
Weeding (hard & soft)	183	Nill	Nill	Nill	183	Nill

[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. Ashwini Kotrashetti	Electromagnetic Engineering	Moodle	10/06/2019
Dr. Ashwini Kotrashetti	Antennas Radio Wave Propagation	Moodle	25/12/2019
Ms. Freda V. Carvalho	Microwave Engineering	Moodle	01/06/2019
Ms. Freda V. Carvalho	RF Design	Moodle	06/12/2019
Ms. Sana Shaikh	Big Data Analytics	Moodle	03/07/2019

Ms. Sana Shaikh	Open Source Technology Lab	Moodle	06/01/2020
Ms. Sunantha Krishnan	ITC603 Cloud COmputing Services	Moodle	29/07/2020
Ms. Sunantha Krishnan	ITC703 - Artificial Intelligence	Moodle	15/07/2019
Prof. Nilesh Gaware	MEDLO7032 Automobile Engineering	Moodle	10/06/2019
Shreeprasad S. Manohar	Finine Element Analysis	Moodle	04/01/2020

[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	1177	1138	100	0	66	40	102	100	0
Added	2	2	0	0	0	0	0	0	0
Total	1179	1140	100	0	66	40	102	100	0

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Moodle	https://moodle.dbit.in

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
164.87	176.31	283.6	313.98

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)

Systems and procedures have been established to ensure that all facilities on campus are well maintained and appropriately utilized by students and staff. Adequate care is taken to ensure preparedness before the beginning of the academic term. Pre-Semester preparation: The following activities are carried out prior to the beginning of the semester: 1. Inspection of all classroom facilities like adequacy of benches, working of lights and fans, proper working of LCD projector and sound system, availability of internet connections. 2.

Checking of all computers in the laboratory, ensuring availability of prescribed software on each machine, an inspection of lab furniture and replacement /repair of broken furniture, working of projectors, printers, scanners if available. 3. Inspection of machines in the workshop and carrying out any preventive/breakdown maintenance. Maintenance of laboratory equipment and calibration of measuring instruments as per schedule 4. Procurement of consumables and raw materials required for the conduct of experiments. 5. Purchase of new equipment in the laboratory as per curriculum requirements. 6. Stocktaking in the library at the end of the academic year and procurement of books for the new semester as per the syllabus. 7. Stationery required for academic and administrative functions is procured. 8. Any infrastructural requirements like painting, renovation, restoration, modernization of IT infrastructure, etc. is carried out 9. Sports ground is cleared of wild grass and weeds and properly rolled In- Semester activities: During the semester routine inspection and maintenance is carried out to ensure that facilities are well utilized and there is no misuse. 1. House-keeping committee of the institute inspects the facilities like toilets, water coolers, class rooms, corridors and conveys any specific requirement to Dean Administration/Administrator. 2. Canteen committee oversees the cleanliness and hygiene in the canteen and monitors the food quality 3. Library committee addresses specific needs of the students and staff related to the availability of books, accessing of journal articles, utilization of plagiarism software, etc. 4. The sports committee along with the Sports -in-Charge ensures the availability of sports equipment and monitors the usage of the ground, courts, and indoor games facilities. The Sports-in-charge maintains an inventory of the sports equipment. An attendant is provided during the lunch break and after college till 6 pm. 5. The laboratory assistant along with the laboratory in-charge handles the laboratory equipment and maintains the Dead Stock Register (DSR) and the routine maintenance of the equipment. 6. Any breakdown maintenance is taken care of by the Dean Administration / Administrator in consultation with Management 7. Class teachers are responsible for addressing day to day requirements and monitoring the upkeep of the facilities in the classroom. 8. The exam section along with the exam committee ensures that all processes for assessment and evaluation are meticulously followed.

https://www.dbit.in/index.php/academics/faculty-committes

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	Partial fee waiver for Economical Weaker Students, Economical Backward Class, Minority Scholarship, Reserve Category	377	17363469
Financial Support from Other Sources			
a) National	Kamgar Kalyan Kendra, Merc India Charitable Trust, Sima Kathib, Dowoodbhoy	70	660500

	Fazalbhoy, Vanita Samaj, Prime Minister Scholarhip, Brihad Bhartiya Samaj, Mahalaxmi Trust, Kalsekar Trust, J J Foundation		
b)International	NA	Nill	0

<div align="center">

[View File](#)

</div>

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
ICT/computing skill (Hacking Tool and Career in Cyber security)	10/09/2019	110	Vicky Fernandes – 9730502008
Individual counselling by institute counsellor	22/07/2019	41	Amrita Achrekar Con. Psychologist, NLP, Regression Therapist, Graphologist, Bach Flowers Mind Body Healer D.B.C.L., Kurla (W) 022-25040508
Mentoring (Goal setting including time management)	01/08/2019	60	Amrita Achrekar, Con. Psychologist Hypnotherapist D.B.C.L.,Kurla, and Hitakshi Vyas Joshi Counseling Psychologist Advanced RECBT Therapist, DBCL Kurla
Bridge course (Webinar on Emerging Trends Post COVID-19)	16/05/2020	375	Mr. Ganapathy Venkatachalam, Technical Advisor – ETA Group of Companies
Bridge course (Latex Training Workshop)	09/09/2019	40	Dr. Satishkumar Chavan, Associate professor, DBIT
Bridge course (IOT-ROBOT building workshop and competition)	21/02/2020	75	IETE Core members, IEEE Core member
Soft skills	15/01/2020	305	SmartWayz, 162/3 Roadno-2,Jawahar Nagar, Goregaon west, Mumbai.

Language and communication skills (Mock GD, PI etc)	17/02/2020	280	SmartWayz, 162/3 Roadno-2,Jawahar Nagar, Goregaon west, Mumbai. 9022442435
Life skills (Yoga, physical fitness, health and hygiene, Meditation)	23/01/2020	47	Mr. Akshay Dedhia,Art of Living Teacher and a Certified Yoga Trainer from AYUSH
Remedial coaching	09/03/2020	35	Revathy Sundararajan and Pallavi Mahadik, DBIT, Mumbai

[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
2019	GATE Coaching	6	Nill	3	Nill
2020	Guidance for Competetive exam for BE Students	280	Nill	40	Nill
2019	Talk on Competitive Platform (Codechef/Hackerearth)	46	Nill	18	Nill
2019	Improvement of coding skills	30	Nill	12	Nill
2020	Technical Quiz on All Engineering related topics	25	Nill	14	Nill
2020	Career counseling seminar for BE Students	Nill	305	Nill	168
2019	Session on Job Opportunities in the	Nill	18	Nill	4

	Telecom Industry				

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
2	2	45

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
Infosys, Capegemini, NSEIT, Mindcraft, LT Infotech, Dyson, Vistaar, ICICI Pru, Byjus, Toyo, TCS, LT Heavy Engg	305	168	Nil	Nill	Nill

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
2020	1	Bachelor of Engg	Computer Engineering	University of IILianos at Chicago	MS Program Computer Science
2020	1	Bachelor of Engg	Computer Engineering	University of Texas at Arlington	Masters in Computer and Information Science
2020	1	Bachelor of Engg	Information Technology	Northeastern University, 360 Huntington Ave, Boston, MA 02115, United States	MS in cyber Security
2020	1	Bachelor of Engg	Information Technology	STEVENS INSTITUTE OF TECHNOLOGY	Financial Engineering program

2020	1	Bachelor of Engg	Mechanical Engg	University at Buffalo	Master of Information Technology and Technology Management
				Castle Point Terrace, Hoboken, NJ,USA	
2020	1	Bachelor of Engg	EXTC	The University of Sydney	Master of Information Technology and Technology Management
2020	1	Bachelor of Engg	EXTC	CAU, Germany	Masters in Electrical Engineering and Information Tehnology
2020	1	Bachelor of Engg	EXTC	University of Maryland, college park	MS in Tele communicatio ns
2020	1	Bachelor of Engg	EXTC	University of Applied Sciences Ravensburg Weingarten, Weingarten	MS, Electrical engineering and Embedded System
2020	1	Bachelor of Engg	EXTC	Skema Business School	MS. Intern ational Business

[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	7
GRE	26
TOFEL	7
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
Sports event 100 meter race	Institute Level	42
Cultural event Make Up Competition	Institute Level	24

Cultural event Wall painting	Institute Level	42
Cultural event Fashion Show	Institute Level	66
Cultural event Band Event (Inter Dept)	Institute Level	70
Cultural event Solo Singing Western and Regional	Institute Level	23
Sports event	Inter-collegiate footbal(Girls)	14
Sports event Tug of war	Institute Level	80
Sports event football	Institute Level	110
Cultural event Group dance	Institute Level	72

View File

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Leh Ladakh mountain cycling	National	1	Nill	2015144309	Parth Gupta
2019	Inter-collegiate girls football	National	1	Nill	2016144745	Vishakha Dikshit
2019	Inter-collegiate SKIT	National	Nill	1	2016144664	Jovin Vaeghese
2020	Miss Navi Mumbai Pageant competition	National	Nill	1	2018120035	Riya Mek kattukulam

View File

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

DBIT has strong and active Student Council. The objective of the council is to make the students to participate in the development activities of the institute as well as to develop their personality, organizational skills and career through organizing interactive programs with the faculty, alumni, and industry. In nutshell, they ensure holistic development of the students from the beginning. The student council provide a common platform to students for co-curricular and extra-curricular activities. It is responsible for all the major technical, cultural, literary and sports activities organized in the college

premises. The management of the institute endorses activities of the council. Each year the student class representatives elect the following members (one boy and one girl student) to the student council: 1. General Secretary 2. Technical secretary 3. Treasurer 4. Cultural Secretary 5. Sports Secretary 6. Public Relation 7. Alumni Secretary COMPOSITION, DUTIES AND RESPONSIBILITIES OF THE COUNCIL. 1.General Secretary: Spearheading the council activities, planning, executing and monitoring the calendar of activities across the academic year. 2. Treasurer: To plan the budget for the various events handled by the student council, manage the disbursement of funds allocated to the council and prompt preparation of statement of accounts. 3. Technical committee: To organize annual Technical Festival, organize skill development programs, training programs. The Math Club and Physics Club hold activities like Math-Physics Quiz, Poster presentation, etc. 4. Cultural committee: To organize various cultural activities including annual cultural festival, 'Hysteria'. To organize events of the Marathi Club, Literary Club, Drama Club, Dance Club, Music Club. 'Samvaad', an inter-collegiate Parliamentary Debating competition is the flagship event of the Literary club. 5. Sports committee: To organize various sports events like football, cricket, throw ball, table tennis, carom, badminton etc. It also organizes annual sports competition where there are separate events for faculty and other staffs. 6. Public Relations Committee: To reach out to the students in the most effective manner by developing the college's communication strategy on campus through posters, blog posts, Facebook events, e-mails, videos and any other innovative ways. To collect sponsorship for various institute events. 7. Alumni Committee: To organize student interactions with alumni through seminars, panel discussions, guest lectures to assist in organizing annual Alumni Meet. 8. Sustainability Committee: To generate interest and actions towards sustainability on campus through awareness creation, regular interaction with campus staff and administrators to identify opportunities for a green environment through composting, waste reduction, energy conservation, using alternate forms of energy etc. Student representatives are an integral part of the following institute level committees. The student council members are groomed various leadership and outreach program. They prepare the annual activity calendar and propose the annual student activity budget. After approval of these by the management, they go for circulation of the activities to the entire students community of DBIT to ensure maximum participation in the activities.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Salesians of Don Bosco is an international organisation headquartered in Rome. The Indian National Federation of the Past Pupils of Don Bosco was founded in 1968 in Mumbai. The Alumni Association of DBIT is affiliated to the Mumbai Provincial Federation of the Past Pupils of Don Bosco which in turn is affiliated to Indian National Federation of the Past Pupils of Don Bosco. DBIT is part of the Kurla unit of the Mumbai Provincial Federation. Despite the affiliation,individual Don Bosco Institutes are permitted to have their own alumni association without a formal letter of affiliation. The first formal alumni meet was held in March 2017 which was attended by over 100 alumni from batch of 2005 onwards. The founder Principal of the institute, Dr. S. Krishanmoorthy was the Guest of Honour. Some senior alumni shared their experiences of campus life and how it had helped to shape their careers.In the alumni meet of March 2018, the DBIT Alumni Association was formalised and elections were held for the various posts after receiving nominations. Distinguished alumni were felicitated for their contribution to various fields. Alumni of DBIT have been contributing to the development of the institute in over the past several years. However a formal structure was put in place only

in 2017. Some of the activities in which alumni have contributed are listed below: • Visiting faculty for lectures in various subjects • Expert lectures on upcoming technologies • Full time teaching faculty(Several alumni are full time teaching faculty in this institute) • Design and maintenance of institute website • Conducting training programmes and workshops for students • Mentoring students on employment, entrepreneurship and career planning: "Alumni Konnect" is an event organised for the first year engineering students to interact with alumni and learn from their experiences • Presence on the Academic Advisory Committee of the departments • Financial contribution for conferences • Coaching the presents students for football • Helping forge MoU between their organisation and DBIT Functions of Alumni Association are as follows. • Since the formation of the Alumni Executive Committee, several meetings have been held to formalise the objectives of the association and plan the activities • The Memorandum of the Association is framed • The alumni web portal has been set up • Activities to be carried out during the academic year have been identified. • The Mumbai Provincial Federation is to be registered soon. By virtue of the affiliation, DBIT Alumni Association will not need to be registered separately • Presently the accounts of the association are managed by the institute.

5.4.2 – No. of enrolled Alumni:

972

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

22000

5.4.4 – Meetings/activities organized by Alumni Association :

(i) Webinar on Cloud Computing Insights by Mr. Rivin Jose (Alumnus, Batch 2011, Comps) (ii) Webinar -Ways to Discover Your Dream Job by Ms. Sharon Lobo (iii) CAREER PROSPECTS WITH RESPECT TO HIGHER STUDIES IN USA IN THE CURRENT SCENARIO by Melroy Pinto (iv) NAVIGATING THE POST-COVID MASTER'S MAZE SPEAKER: Mr. Varun Chouthkanthiwar, alumnus of Batch 2017 (v) Annual Alumni meet-Synchrony 2020. (vi) Discussion on Final Year Project: Design and Development of Water Flowmeter-Mr. Quentin Dsouza and Mr. Aldan Sequeira – QdNet Technologies Pvt. Ltd. (vii) Progression from a 5 pointer to a 9 pointer-Mr. Gladson Nadar (Batch 2019) (viii) Final Year project discussion- Ms. Rochelle Dsa (ix) To frame the objectives of the association for AY 2019-20 on 15 Feb 2020 (x) On 30 April online association meeting on postponement of annual Alumni meet (Synchony 2020) in view of pandemic.

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 institute has continued its practice of appointing Deans (Academic, Research and Administration) and Heads of Departments to manage the day to day operations, with appointment being for 3 years. Deans and HODs have the autonomy to manage their work as effectively as possible within the guidelines provided by the management. The Principal meets with the Deans and HODs every week to plan ,monitor and assess the impact of the various activities on campus. The institute has an active CDC (College Development Committee) along with the required representation from various sections of stakeholders as per Section 97 of THE MAHARASHTRA PUBLIC UNIVERSITIES ACT 2016. (MPUA-2016). The CDC gives important inputs and the agenda for CDC meetings is as per the Section 97 (5) of the MPUA-2016. The IQAC meets at least twice a year to review the status of the quality implementation in various aspects of the academic and

administrative operations. IQAC proposes and implements quality improvement initiatives . Student representatives are also part of the IQAC. Various committees at the institutional level meet regularly to assess the campus requirements and propose measures to improve the learning environment and the physical environment and safety on campus. CASE STUDY 1 Decentralization and participative management has been adopted as the culture of the organization over the past few years. • Before the end of the financial year each HOD submits to the Principal the budgetary requirements of her department for the following academic year. • The HOD gathers the necessary requirements for equipment, consumables, training of faculty and students, purchase of books, from her departmental colleagues. • The Principal consolidates all the requirements under various budget heads and presents the consolidated budget before the CDC for their approval. • After approval from the CDC the budget is presented before the Board of Governors for approval. • For any expenditure beyond the budgetary provisions, the HOD makes a special request to the Management through the Principal. • The request is forwarded by the Principal after assessing the need for the expenditure. • The Accounts Manager monitors the expenditure and informs the Principal of any spending in excess of the budget. CASE STUDY 2: Each department is free to operate independently while being governed by the guidelines issued by the management. The subject teacher is authorized to decide the organizing of guest lectures for the students to make them aware of the cutting – edge technology in their respective domain, budgetary provision for the guest lectures and workshops, etc. The department plans and executes the curricular, extra curricular and co-curricular activities that are necessary to foster student's skill set to make them employable in reputed organizations. • For. e.g. The Game of Codes , a coding competition organized by the Department of Information Technology, to develop problem solving skills through the use of programming language. The event planning , execution and management is carried out by the team of the students and the teacher.

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
Admission of Students	• Eligibility criteria as prescribed by the Government of Maharashtra and given in the Admission Rules. • Every student seeking admission to the First Year of Engineering should register themselves with the Centralized Admission Process (CAP) conducted by DTE, Maharashtra State at the DTE facilitation Centers (FC). This Process is prerequisite and mandatory also for Minority students seeking admission for Minority Category. • 49 percent seats are filled through CAP conducted by DTE. 51 percent seats are reserved for Minority candidates (Roman Catholic Community).
Human Resource Management	• The faculty recruitment happens as per the norms provided by the university • Skill development programs

	are organized for the staff as part of the Faculty Development program. • Staff is encouraged for self development and qualification enhancement. In the year 2019 - 2020, total 8 faculty were allowed to pursue their doctorate studies. • Various Staff welfare schemes are presently employed • At the end of every year, performance evaluation of the staff is carried out. This is used for deciding promotions and increments. Self appraisal evaluation is done by the faculty and reports are submitted to the Principal.
Examination and Evaluation	• The examinations and evaluations are governed as per the syllabus of University of Mumbai. • The students submit the term work of 25 marks at the end of the semester where their performance is evaluated in the Laboratory. • Two internal assessment tests of 20 marks each are conducted during the semester to evaluate the performance in the lectures • Oral/Practical examination is conducted at the end of the semester as prescribed by the university curriculum • The student has to appear for end semester exam of 3 hour duration which is conducted by the university. • Internal Assessments during the March 2020 – June 2020 were conducted online using the LMS Moodle as per the directives from University of Mumbai.
Curriculum Development	• The curriculum is provided by the Mumbai University. • Faculty representatives are also part of the syllabus design committee and few teaching staff are part of Curriculum Development on the University Board of studies. • The faculty attend the orientation programs conducted by the subject experts before the commencement of the new curriculum. • Guest lectures, workshops and competitions are arranged by the faculty to support the curriculum.
Teaching and Learning	• Before beginning of the semester laboratory maintenance is carried out to ensure proper working of equipment along with safety checks. • Teaching , Lesson and Practical plans are created by the faculty along Objectives and Course Outcomes • Course notes and presentations are uploaded on Moodle • New books are added to the library as

	suggested by the faculty. • Monitoring students performance through Internal Assessment-I, II , assignments and projects. • Student feedback and peer review is collected with regards to the teaching. • Result analysis at the end of IA • Remedial classes for slow learners. • Inputs from IQAC, Department AAC, PTA and feedback for improving TLP.
Research and Development	• Research articles are invited from Research Scholars to be published in DBIT TECH Journal. • Dean R and D, External Mentors to guide the faculty for research. • Since 2014, faculty have been submitting Minor Research proposals to the Mumbai University . During 2019 - 2020 total research grant of worth INR 13.65 lakhs was received. • Each department has research groups of faculty members and have set research targets, which are monitored by the Research committee and the Dean of R and D • The institute has 10 active MoUs signed with industries and academic organization s from India and abroad. • Many faculty and students have published their research in Journals / Conference of National and International reputation.
Library, ICT and Physical Infrastructure / Instrumentation	• The Library committee, student's, and IQAC are some of the stakeholders who give suggestions for improving the quality of library resources. • New books/journals /software are purchased every year to update the library as per suggestion of library committee, faculty. • Library Circulation is fully automated with integration of Koha and barcode scanners. • The 30 seater digital library is available for surfing research articles and ebooks. Reprography services are also available. • The ICT facilities are provided in every classroom and labs are per AICTE for effective teaching learning • New software, hardware is procured based on requirement.
Industry Interaction / Collaboration	• Industry experts are the Academic Advisory Board (AAB), which meet once a semester. Recommendations for improvement in quality are placed in IQAC and then implemented. • Students and faculties are encouraged to go for internships in the industry • In view of sharing technical resources and expertise, MOUs are signed with reputed

| | companies • Alumni placed in the reputed industries are invited for informal dialogue with the students. Entrepreneurship training workshops are organized for the students and the faculties. |

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

E-governace area	Details
Student Admission and Support	• The Admission process is centralized and controlled by the Admission Regulating Authority (DTE), Maharashtra State, except for the management seats which are managed internally. • Student admission and maintenance of data is done through MIS software and Spreadsheet. • Students are advised by the Admission department, in case they have difficulty in producing appropriate documents during admission. • Admission department also supports the students by giving them inputs on scholarships and fee waivers schemes.
Examination	• We are using internally developed software for result gazette generation and mark sheet preparation which is called NEST and is managed by our internal team. • Other modalities of conducting exams like, Setting of Question papers is managed centrally at UoM. • Online Internal Assessment exams were conducted during pandemic as per directives from UoM.
Planning and Development	• Institute has an operational MIS which supports attendance management, Exam Management software including result generation and the certificate printing, Internal Assessment module, and student feedback for faculty. Tally accounting software is used to manage general administration. • Koha software has been used for the management of library related activities. • Requirements specified by UoM, DTE, AICTE are fulfilled from time to time. • In view of COVID-19, from March 2020 online classes were being arranged, using zoom, Goggle meet etc. • As part of ICT during the COVID-19, digital communication was practiced in all departments, emails, whatsapp.
Administration	• The College Administration uses both vertical and horizontal channels of communication. • HoD disburses the information by conducting the faculty

	meetings/through email/ Whatsapp (especially during COVID -19)to the stakeholders • which include staff, students and their parents. • Biometric Attendance is used for staff for maintaining and managing attendance. • Attendance rules / Leave rules are approved by management and are made known to staff, a copy of the same is available in MIS. • Security guards and CCTV are in place to ensure security of premises.
Finance and Accounts	• We are having Tally ERP 9.0 for managing the accounts, payroll and finance • Payment of salaries, calculation of CL's/EL's/ML's etc for the staff is managed by the F and A. • F and A also manages the receipt of the fees from the students and its accounting. • The F and A is annually audited by a Chartered Accountant.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	Dr. Prasanna Nambiar	NA	IEEE Membership Fee and subscription	11000
2020	Janhavi Baikerikar	2nd International Conference on Advanced Computing Technologies and Applications 2020	NA	7000
2019	Yogesh Sureshchandra Padiya	International conference on Heat and Mass transfer	ISHMT	4425
2020	Priya Kaul	Zoom Subscription	NA	2270
2019	Deepali Kayande	International Conference on Wireless Communication: ICWiCOM 2019	NA	3500
2019	Sana Shaikh	One day Zonal Training	NA	400

2020	Sana Shaikh	NA	ACM Faculty membership fee	1770
2020	Janhavi Baikerikar	2nd International Conference on Advanced Computing Technologies and Applications 2020	NA	3500
2020	Revathy Sundararajan	National Seminar on Algebra - 2020 (sponsored by SERB and DST) - Feb 14-15, 2020 at Shivaji University, Kolhapur	NA	750
2020	Dr. Amiya Tripathy	NA	ACM Membership and subscription of Journals of	35720
[View File](#)				

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)
2019	MIS Orientation Program for DBIT Faculty	MIS Orientation Program for DBIT Staff	18/11/2019	18/11/2019	61	1
2020	Conducted Moodle session for IA-II exam - Mechanical	NA	16/04/2020	16/04/2020	15	Nill

Year	Title	(Org)	From Date	To Date	Attended	Resource
	department					
2019	Session to create resume using Google Site.	NA	28/09/2019	28/09/2019	9	Nill
2019	Tableau Workshop for Faculties	NA	06/09/2019	06/09/2019	14	Nill
2019	Orientation Program (On behalf of MU)for Subject - Big Data Analytics for MU faculties	NA	15/07/2019	15/07/2019	41	Nill
2020	Mentoring Session for faculties	NA	28/07/2020	28/07/2020	16	Nill
2019	Appraisal – FDP	Appraisal – FDP	24/08/2019	24/08/2019	70	24
2020	NBA: CO -PO Mapping FDP	NA	25/01/2020	25/01/2020	61	Nill
2019	Personal Finance Planning	Personal Finance Planning	24/08/2019	24/08/2019	64	13
2019	Mumbai Grahak Panchayat - Consumer Protection Act	Mumbai Grahak Panchayat - Consumer Protection Act	14/09/2020	14/09/2020	68	20
			[View File](#)			

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
Faculty Internship Gejo George Anjum Khan at	2	11/11/2019	29/11/2019	18

Chemtron Science Laboratories Pvt. Ltd				
webinar on, "Covid-19 Relief and Rehabilitation"	25	15/06/2020	15/06/2020	1
FDP on "Opportunities Challenges in Electronics Allied Industries in India Post Covid-19"	2	25/05/2020	30/05/2020	5
Short Term Training Program on Advanced Machining	30	03/09/2019	07/09/2019	5
ISHRAE-AICTE sponsored 5 days Refresher Courses for Faculty Members on Refrigeration and Air-conditioning at BITS-Pilani, Hyderabad Campus	25	16/12/2019	20/12/2019	5
ICP - HVAC Commissioning	25	21/02/2020	22/02/2020	2
FDP on Writing on Effective COs using BT	20	27/09/2019	27/09/2019	1
'National Webinar on Creating a Green Campus'	6	05/06/2020	05/06/2020	1
Panel Discussion on "Work-Life Balance for Women Post Covid-19"	2	25/04/2020	25/04/2020	1
STTP on "MATLAB based Teaching-Learning in Mathematics,	2	18/05/2020	22/05/2020	5

| Science Engineering" | | | | |

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
65	17	42	7

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
1. Staff welfare society 2. Provident Fund Gratuity 3. Free annual health checkup 4. Insurance benefit for all faculty.	1. Class 4 staff are provided with daily Breakfast provision 2. Provident Fund Gratuity benefit 3. Free annual health checkup for all staff 4. Part Medical Expenses for Class - 4 staff.	1. EBC Scholarship 2. Minority Scholarship 3. All the students are covered under insurance 4. Part Medical Expenses in case of emergency and urgency.

6.4 – Financial Management and Resource Mobilization

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

The college has the mechanism of both internal and external audits for the financial activities carried out. Accounts department headed by Accounts Manager, maintains financial accounts and prepares all financial statements and submits them to all statutory bodies like AICTE, Shikshan Shulka Samiti (SSS), etc when required. The institute is a self financed private institute thus the main source of income is the tuition fee collected from the students. SSS decides the fee on the basis of the expenditure incurred by the institute. The institute submits audited statements of accounts as evidence annually or when required. The final statement of accounts is audited by an external chartered accountant.

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
Donations by Individuals	125000	For payment of fees for economically weaker students

6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	TuV Austria	Yes	Dean Academics

Administrative	Yes	TuV Austria	Yes	Dean Administrator

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

1. Parents have played key role in getting companies for placement recommending our students for internship in various organizations. 2. Many Parents are at senior position in companies who have contributed through their experience as evaluator for projects in Innovex (Project Exhibition) 3. Parents and Senior Teachers have contributed through webinars on cutting edge topics 4. Parents have supported by being member of committees like Academic Advisory Board, etc.

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

1. Non-teaching and Support staff are motivated to join the skill up-gradation programs provided by Coursera, etc. 2. Supported Non-Teaching staff for pursuing higher studies through sanction of duty-leave, leave during exams. 3. Workshop on Basic English Communication , conducted by internal communication faculty

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

1) Improving the quality of the Technical Paper writing skill among the students. 2) Improving the existing MIS system (additional features implementation and bug handling) 3) ISO 9001:2015 Internal auditor training was conducted 4) Strategy to Excel , Achieve and Deliver -- program for strategy planning and development for key members to help develop Strategy for next five years.

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	No

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	Mapping of various process on the requirements of NBA and ISO 9001:2015	29/08/2019	01/06/2019	28/08/2019	20
2019	How to improve the quality of framing Course Outcome.	03/12/2019	02/09/2019	17/10/2019	82
2019	Initiative to improve quality of MIS system.	03/12/2019	13/12/2019	02/01/2020	82

2020	How to improve quality of writing a technical paper.	01/06/2020	15/05/2020	31/12/2020	430

View File

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Rink football (Girls)	23/01/2020	25/01/2020	28	Nill
Throwball (Girls)	23/01/2020	25/01/2020	24	Nill
Box Cricket	23/01/2020	25/01/2020	25	Nill
Awareness on Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	25/09/2019	25/09/2019	29	49
Awareness on Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	30/09/2019	30/09/2019	7	42
Awareness on Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	01/10/2019	01/10/2019	8	49
Mentoring and counselling session on Peer Pressure	17/07/2019	17/07/2019	5	16
Mentoring and	15/07/2019	15/07/2019	8	21

counselling session on Goal Setting and Motivation				
Mentoring and counselling session on Professional skills	18/07/2019	18/07/2019	10	17
Formation of Student Council	01/07/2019	01/07/2019	6	8
Formation of WDC	01/07/2019	01/07/2019	4	1
Formation of Internal Complaints Committee(ICC)	01/07/2019	01/07/2019	4	4
Internal Hackathon for Smart India Hackathon-2020	30/01/2020	07/02/2020	59	133
Don Bosco Girls League-Football (DBGL)	10/09/2019	04/10/2020	27	Nill
Women Development Workshop: Women's day out" for women's empowerment	14/01/2020	14/01/2020	75	6
"Desktop Yoga, Pranayam and Meditation"	23/01/2020	23/01/2020	37	10
Basketball (Girls)	23/01/2020	25/01/2020	28	Nill
Athletics(80m,200m,600m)	23/01/2020	25/01/2020	28	Nill
Hysteria DBCL (Performing Arts)	23/01/2020	25/01/2020	51	49
Hysteria DBCL (Literary Arts)	23/01/2020	25/01/2020	10	13
Hysteria DBCL (Fine Arts)	23/01/2020	25/01/2020	73	44

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
The Vision statement of the institute promotes research in the field of sustainable technologies. The institute has framed a Green Policy to promote sustainable alternatives in everyday life. Sustainabilty activities and Environment consciousness are embedded in the curriculum through the following:

• Aleast 15-20 of the final year projects carried out by the students focus on sustainability. Some of the projects are listed below: 1. Conversion of flower waste into useful products like activated charcoal and agarbattis 2. Design of sensors to assess hydrogen sulphide levels in drains for safety of drain cleaners 3. Redesign of sanitary pad incinerators to reduce power consumption 4. Effective management of plastic waste 5. Extraction of water from thin air 6. GIS based decision support system for E-Waste management 7. Remote sensing for water resources management 8. Decision support system for crop selection 9. Development of real time solar spectrum measurement tool 10. Air quality detection using 6LoWPAN 11. Design and development of Rectenna for wireless energy harvesting 12. Waste segregation using Smart Bin and optimization of collection routes, etc • House-keeping committee team comprising of staff and students monitor the composting of canteen waste. Nearly 80 Kgs of compost was generated in 19-20 • A team of staff and students of Mechanical Engineering department operate and maintain the bio-gas plant on campus which uses part of the food waste generated in the canteen. To promote environment consciousness the following electives are taught in semester-7 and semester-8 1. Environment Management is taught as institute level elective in Semester-8. 2. Energy Audit and Management is taught as institute level elective in Sem-7. 32 students enrolled for it • An institute level elective subject of Development Engineering is introduced at the Institute level in semester 7 since July 2019. 75 students who enrolled for this undertook field visits to rural villages to understand and appreciate the sustainability practices of the villagers. • Students undertook internships with NGOs and other organizations that promote sustainability • Recycling of all kinds of waste including waste generated in workshops, electronic waste, paper waste, etc is carried out. • The Annual Technical festival ,COLOSSEUM, had COLOSSEUM FOR CLIMATE CHANGE as the theme in order to promote environment consciousness. Alternate Energy Initiatives: • Renewable Energy Sources is taught as an elective subject to the students of Mechanical Engineering • A solar and wind-energy lab is set up to teach students the principles and operation of solar PV and wind turbines • The bio-gas plant is used in the conduct of experiments in the subject of Renewable Energy Sources The Institute has a 100kW Grid Tie Solar PV power plant as a renewable energy resource which has an annual production of approximately 125,425 kWh (1,450 kWh/kWp) because of which about 87.8 tons of CO_2 emission.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nill
Provision for lift	Yes	Nill
Ramp/Rails	Yes	Nill
Braille Software/facilities	No	Nill
Rest Rooms	Yes	Nill
Scribes for examination	Yes	Nill
Special skill development for differently abled students	No	Nill
Any other similar facility	Yes	Nill

7.1.4 – Inclusion and Situatedness

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

	initiatives to address locational advantages and disadvantages	initiatives taken to engage with and contribute to local community			initiative	addressed	participating students and staff
2019	1	Nill	28/08/2019	30	School teaching program - Utkal School Navpada, Kurla(W)	Teaching Underprieleged	19
2019	1	Nill	31/08/2019	15	Football coaching program- Lok Seva Sangam, Govandi	Helping kids learn an international sport	10
2019	1	Nill	16/09/2019	15	Evening Clasess - for Under privelege d students	Helping academically weaker students from nearby area	40
2019	1	Nill	26/09/2019	1	Menstrual Hygiene Awareness Program for the school children - Utkal School, Navpada, Kurla (W)	Awareness about Menstrual hygiene	4
2019	1	Nill	02/10/2019	1	Beach Cleaning Activity	Swaach Bharat Abhiyaan(Versova Beach Cleaning)	39
2019	1	Nill	02/11/2019	1	Diwali Mela for HIV affected kids	Supporting HIV affected kids.	32
			View File				

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

Title	Date of publication	Follow up(max 100 words)
Student Guidelines	Nill	DBIT requires all students to act as responsible citizens and members of a higher education academic community.Each student is responsible to know,abide by,and adhere to the Institutes Code of Conduct, policies, rules, and regulations. A safe, caring and orderly college campus is the foundation for a successful learning environment. The Code of Conduct supports socially responsible behaviour and allows the students to be fully informed about the expectations of the Institute.This handbook is available on the Institute website. All the students are expected to read this after taking admission to familiarize themselves with all policies and procedures affecting them.
Service Book	Nill	The institution has framed the Service Rules according to the AICTE, UGC and UoM norms. For recruitment, the HoDs reviews faculty requirements as per teaching load and submits the consolidated staff requirement to Principal after which the recruitment takes place according to the norms of the University of Mumbai, AICTE and rules applicable for institute with minority status. All newly inducted faculty read through the contents of the service book. There is a process to amend the contents based on change in policy, eg. leave rules, rules for Phd sponsorship, etc.

Guidelines for external engagement of faculty	Nill	This document has been created to facilitate faculty to participate in consultancy projects, collaborative research and other forms of external engagement
Code of Ethics in Research Activities	Nill	This code of ethics sets forth the principles of ethical conduct to guide students and teachers towards scholarly research.These represent the aspirational goals and define enforceable standards that should direct students and teachers an ethical course of action.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Goal Setting,Motivation and Time Management	22/07/2019	22/07/2019	51
How to deal with Peer Pressure and Addiction	19/07/2019	19/07/2019	45
Health Check-up camp	27/08/2019	27/08/2019	153
Teaching to school children in slums	05/08/2019	18/10/2019	19
Awareness about Menstrual Hygiene for school children	26/09/2019	26/09/2019	4
Gandhi Jayanti Celebration -Bhajan Sandhya-Gateway of India	02/10/2019	02/10/2019	8
Diwali celebration with special children	02/11/2019	02/11/2019	32
Development Engg Course on Ethics and Values	12/10/2019	24/10/2019	75
Synergy - Department day celecbration-EXTC	24/10/2019	24/10/2019	226
Warli Painting Workshop	05/03/2020	05/03/2020	28

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)
The Vision statement of the institute promotes research in the field of sustainable technologies. The institute has framed a Green Policy to promote sustainable alternatives in everyday life. Green Campus The institute has a green campus with 180 trees and plants which is regularly maintained and provided with organic manure produced from the compost pit on the campus by a dedicated team. For the institutional level programmes the guests are greeted with plant saplings and welcome kit of paper/jute bags. A number of office activities are paperless through the DBIT-LAN portal to reduce the use of papers.
Waste recycling: Food waste from the canteen is fed to a biogas unit. The unit is used as an experimental set up for the subject of Renewable Energy Sources. A composting unit converts all organic waste on campus into manure that is fed to the plants within the campus. Recycling of electronic waste is carried out.
Use of ICT: Paper usage is reduced through online submission of assignments. Online feedback is used instead of paper feedback to capture stakeholder satisfaction. Online learning Management system is used to provide study material to students. Online teaching learning mode was used as soon as the lockdown was imposed in march 2019 so that the teaching learning process went on smoothly.
Projects/Competitions: The institute encourages students and staff to take up projects in the field of sustainable development within and out of the campus. At least 15-20 of the final year projects carried out by the students focus on sustainability. This year also marked the beginning of an online exhibition of final year projects as e- Innovex-2020. It received an overwhelming response from the industry and academia.
COLOSSEUM: In order to promote environment consciousness "COLOSSEUM - The Intercollegiate Annual Technical festival of the institute had the theme as COLOSSEUM FOR CLIMATE. This edition of colosseum 2020 had all kinds of events like talks, workshops, competitions etc. conducted by various clubs and student chapters of the institute. It helped in reestablishment of our emotional connection which we share with the environment.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices
BEST PRACTICE-1 Title of the Practice: Strategizing technology deployment for community needs through student training and engagement in community projects Objectives of the Practice: Don Bosco organizations across the globe have been training young students for life and livelihood. Therefore the VISION statement of DBIT mentions about transformation of students into SOCIALLY CONSCIOUS CITIZENS who promote sustainable technologies. To realize this vision the institute has devised a strategy to formally engage students in activities that contribute to this vision. 1. To sensitize the students to the needs of the community 2. To engage deeply with the community to understand their culture and practices and help identify their needs and their challenges 3. To learn the principles of innovative problem solving 4. To deploy latest technology for benefit of the community The Context: With the advent of Artificial intelligence (AI), Machine learning(ML), Internet of Things (IoT), there is a clamour amongst engineering students to learn these new age technologies and achieve a fair degree of proficiency in deploying them. It is observed that though these technologies have the ability to be inclusive and serve all sections of society there is an overwhelming tendency to use it for enhancing the comforts of the urban population. The institute took the initiative to

offer a course in Development Engineering for the final year UG students of all branches to formally train them in addressing community needs through the use of technology. The Practice: • Students in the First Year of Engineering are taught Environmental Studies and are exposed to ecological, social and cultural issues • They are engaged in mini-projects related to environmental issues. • In the second year of engineering students are formally taught innovation techniques and trained to identify problems and to devise innovative and creative solutions. This course is not a part of the formal curriculum laid down by the university • In the third year of engineering students are motivated and trained to participate in competitions like Chhatra Vishwakarms, Tata Crucible, Smart India Hackathon which all have community problem solving at their core. Students are also encouraged to select community problems as part of their final year project • In the final year atleast 75 students opt for the elective subject of Development Engineering which focuses on understanding developmental issues and technology deployment to address the issues. Students read about organizations working in the development space and participate in presentations and in-house competitions. • Experts are engaged to deliver talks to students, field visits are organized. • Projects are carried out by final year students on solving community problems. These projects are exhibited during INNOVEX, the annual project competition, and the students are encouraged to covert their ideas into business proposals and start-ups. Evidence of success: • 100 participation of first year students in environmental projects and commendations from judges on the quality of ideas and presentation of projects • Demonstration by 70 second year students of their ability to ideate and prepare mind-maps for product and process development • Students winning competitions like Smart India Hackathon which demonstrates their ability to ideate, think out of the box and use technology for community issues • At least 20- 25 of the final year projects are related to solving community problems by deploying the latest technology. Problems encountered • Community projects have a long gestation period and cannot be completed as part of a year- long academic project • Students need to have a lot of commitment and passion since there are no quick fixes for community problems • Engaging with the community and winning over their trust is vital to working with them • Projects need to be carried forward for a couple of years before the solutions are implemented Resources Required • Adequate manpower is required for surveys, sensitizing the community, monitoring the deployment and capturing the impact • Resources are required for travel and stay with the communities • Students may need to spend some time away from their academic classes • Remuneration to experts to judge competitions, deliver expert talks • Cost of field visits. BEST PRACTICE -2 Title of the Practice: Faculty appraisal system designed to empower faculty and enhance their performance which can lead to achieving institutional goals. Objectives of the practice: 1. Have a multi-faceted approach to faculty performance appraisal. 2. Align performance parameters with faculty expectations and aspirations. 3. Assign adequate weightage to feedback from important stake-holders. 4. Make the appraisal system empowering and enriching. 5. Make the appraisal process objective and transparent. 6. Set institutional benchmarks for teaching-learning. 7. Assess strengths and weaknesses of the teaching-learning process. The Context: Performance appraisal is an important aspect of any organization. The organizational culture plays an important role in defining the objectives of the organization which in turn raises expectations from its employees. In educational institutions the VISION and MISSION of the institute are equally important in framing the institutional goals and these must be shared with all stakeholders. Performance appraisal is an important tool to measure effectiveness of not only the employees but also of the various processes in the institute. Its provides indications on institutional effectiveness in achieving its long term objectives Employees are important stakeholders in the growth and development of the institute and therefore any performance

evaluation system must address their need for recognition, fairness, reward, growth and empowerment and must set aside biases and prejudices. Such an appraisal system has to be well thought out and designed by engaging with the faculty. The Practice: The appraisal system has three elements: 1. Faculty self-appraisal document- 70 2. Faculty peer-review- 10 3. Student feedback- 20 The faculty sets long term objectives (3 years) and short term objectives for the academic year. The Road Map is defined and milestones are identified. The objectives are at 3 levels: 1. Individual 2. Departmental 3. Institutional The objectives are reviewed and approved by the HOD and the Management The objectives are then mapped onto the self-appraisal document. The self appraisal document has built in performance metrics and institutional benchmarks which enables the faculty to measure her performance and plan corrective actions. Peer review is conducted twice every semester. The Peer Review process and the review format are designed in-house. The reviewer is a senior faculty who attends one or more classes of the reviewee and assess classroom effectiveness and student engagement and provides feedback to better the performance. The review is repeated to ascertain the improvement. Student feedback is taken twice every semester and address classroom effectiveness as well as faculty attitude. All the above are collated and shared with the faculty and the Management who reviews the performance and suggests corrective measures, counsels the faculty, and approves rewards and recognition. Evidence of success: 1. Faculty are able to assess their own performance and set individual benchmarks for improvement. 2. Faculty have shown increased engagement with the community, industry and other stakeholders. 3. Marked increase in the research and conference publications from faculty (nearly 50 more in 2019-20 over 2018-19). 4. Increased benchmark settings for classroom teaching (10 percentage points) and student projects. 5. Greater faculty engagement in development of the Institute. Problems encountered: 1. Removing personal biases in the feedback documents. 2. Educating the faculty about the efficacy of the appraisal tools. 3. The appraisal process is not a one-time affair but it is a year long process. 4. Unable to implement appropriate reward and recognition scheme. 5. Making the process dynamic and adaptable to changes in the educational ecosystem. Resources required 1. Funds for implementing a proper reward and recognition scheme. 2. IT resources to make the process a part of the MIS.

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

https://www.dbit.in/images/Admin/Best_Practices_2019_20.pdf

7.3 – Institutional Distinctiveness

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

The Institute Vision exemplifies the institute's commitment to Under-Graduate Research, specifically in Sustainable Technologies. The institute has been promoting UG research amongst the students and the faculty. The various initiatives taken by the Management has resulted in substantial gains in terms of research papers published, enhanced quality of under-graduate projects and campus visibility in research. The initiatives and the gains are outlined below: MANDATORY COURSE ON RESEARCH AND REVIEW: The students of SEM-6 of all branches of engineering undergo a semester long certificate course in Entering Research. In January 2020 a curriculum has been framed for the course along with well-defined modules, clearly stated course outcomes and prescribed pedagogy. Research mentors have been identified in each department for delivery of the various course modules and monitoring of student progress. Faculty is trained in Research Methodologies to guide the students. The course has been divided into four Modules of total 30 hours duration. After the completion of

the course the students are able to - • Identify various approaches to research • Search for relevant literature and select relevant pieces of information and summarise literature review • Forming teams, evaluating literature, creating task charts • Draft and present a project proposal Inspite of the lockdown, students were able to follow the guidelines and work towards identifying and evaluating literature and preparing a literature review summary. After introduction of the above course there is a marked improvement in the following: 1. Students ability to read and understand research papers 2. Students ability to identify gaps in research 3. Students ability to formulate a research problem 4. Students ability to write a review paper Other gains from the activity: • Improvement in quality of papers submitted by the students to various conferences. This is seen from an increase in the number of papers being accepted for presentation • Improvement in quality of papers submitted to the DBIT Journal of Science and Engineering, which is an in-house publication containing papers by students and faculty. All papers are peer reviewed. • Increase in the number of papers being written by students on the project work carried out by them. Each department publishes a Book Of Papers which is a compilation of all the papers written by the students on the project work done by them. • Increased participation of faculty and students in conferences. • More students looking to convert their project ideas into marketable products and become entrepreneurs. • Increase in the number of faculty members pursuing their Phd in various universities. • Increase in number of research proposals being prepared by the faculty and submitted to various agencies. • Increase in number of consultancy projects being taken up by faculty. • Increase in joint research and product development being undertaken by students and faculty with industry.

Provide the weblink of the institution
https://www.dbit.in/images/Admin/Institute_Distictiveness_19_20.pdf

8.Future Plans of Actions for Next Academic Year

The primary aim of the institute for 2021-22 will be to improve its ranking in NIRF and ARIIA (Atal Ranking of Institutions for Innovation Achievements) and thereby its visibility. NIRF allocates 30 points for Research and Professional practice. The institute has already put in place several initiatives to enhance the quality and quantity of research papers. The outcomes of these initiatives will be analysed to study their impact and corrective measures, if any, will be taken. There is 10 weightage for outreach and inclusivity in NIRF. Though DBIT has been participating in several outreach activities, there has been no formal structure for the same. DBIT will therefore apply to be a part of Unnat Bharat Abhiyaan in 2021-22 and work closely with selected villages to study their lifestyles and understand their requirements and eventually design and deploy technologies to assist them. The subject of Development Engineering will continue to be taught as an Institute Level Elective to the final year students to sensitize them to the developmental issues in rural and urban India. The institute will also consciously work towards improving its visibility through greater engagement with school and junior college students to popularize STEM courses, increase in MoUs with industry, greater presence on social media, greater participation in competitive events, more outreach events. To increase student and faculty participation in entrepreneurship, the institute is already looking forward to establishing an INCUBATION CENTRE. The blue print for the same is ready, however the pandemic has delayed establishment of the actual set-up. Make-a-thon, a hardware based hackathon, which is the flagship event of the Incubation Cell of DBIT, IDIOT's ROOM, will be held at the state level to motivate student entrepreneurs from across the state. More number of student teams will be motivated and mentored to participate in Smart India Hackathons and other similar events. Entrepreneurship based training programmes will continue to be conducted for students and faculty of DBIT as well as for the alumni. To

improve campus governance and transparency in decision making and framing of policies, the existing MIS is sought to be modified. It will be mobile app based and will encompass the needs of all stakeholders. Innovations in teaching -learning is an ongoing process in DBIT and will continue to be pursued by all faculty. Best practices for online teaching will be documented and shared by all faculty.