Yearly Status Report - 2018-2019

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, Kurla (West)**
City/Town	**Mumbai**
State/UT	**Maharashtra**
Pincode	**400070**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr Sudhakar S Mande**
Phone no/Alternate Phone no.	**02268878735**
Mobile no.	**9867285270**
Registered Email	**iqac.dbit@dbclmumbai.org**
Alternate Email	**sudhakar.dbit@dbclmumbai.org**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.dbit.in/images/Admin/NAAC_SSR_MHCOGN101498.pdf

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.dbit.in/images/Acad/AC_Odd_18_19.pdf

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	**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
Internal Auditor training – ISO 9001:2015	**12-Aug-2019 3**	**10**
Analysis of grade report	**15-Jul-2019**	**10**

to improve critical areas	1	
Strategic Planning - 2020	05-May-2019 1	12
Exam audit	27-Aug-2018 15	30
Academic Audit	04-Sep-2018 9	45
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Nil	Nil	Nil	2019 0	0
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	[View File]()
10. Number of IQAC meetings held during the year :	**2**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	[View File]()
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

Process of Academic Audit is regularly carried out to improve planning, execution and evaluation of academic processes.

Process of Examination Audit has been initiated with the objective to improve the evaluation process.

Training has been provided to selected faculty for preparing them for conducting internal audit as per the requirements of the ISO 9001:2015

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
Internal Auditor Training was Quality Management System	Sixty percent of the delegate has completed the course
Committee was formed to carry out Internal Academic Audit.	More than seventy five percent of faculty were audited.
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
College Development Committee	25-Feb-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	14-Nov-2019
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2018
Date of Submission	19-Dec-2018
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	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 curriculum planning process starts with allocation of course(s) to faculty based on the faculty's choice of subjects. Each faculty member plans his /her curriculum delivery by preparing Teaching plan, Lesson plan and the Practical plan at the beginning of the semester. Faculty prepares the course plan using various resources and identifies the gaps and accordingly plans the curricular and co-curricular activities. Faculty uploads the course material like Teaching Plan, Assessment Plan, Assignments, Lecture Notes, etc. on the Online Learning Platform 'Moodle' and on MIS for academic monitoring. Students can access the course material on their smart phones. Institute's academic calendar is prepared according to the notices and circulars received from the affiliating university and the students are notified the probable teaching days and dates of internal examinations, extension related activities and co-curricular activities. The time table committee designs the Time Table for all UG programs as per the university norms. The timetable is then displayed on the notice board as well as on the institute Website. Curriculum Delivery: Course outcomes for each course is shared with the students in the very first lecture. The pedagogy used for delivering the contents is indicated in the teaching plan. The faculty is expected to adhere to the Teaching Plan in all respects. Orientation program is organized every year for newly admitted students to make them aware of the mechanism for curriculum delivery and implementation. A pre-requisite test is conducted to plan the course delivery for each course. Weak and bright students are identified at this stage and remedial or refresher sessions are conducted to bring the weak students on par with the rest of the class. The Internal Assessment (IA) - 1 tests are used to further identify weak and bright students. Remedial sessions are conducted for weak students and challenging assignments are given to brighter students. Apart from traditional chalk and blackboard method various other teaching methods like power -point presentation, ICT-enabled teaching-learning method, quiz, group discussion, debates, field projects, industrial visit, assignments, videos and taking examples of case studies for effective curriculum implementation are used in the classrooms. Expert lectures/talks on allied subjects are conducted to create a harmony between industry, curriculum and the students. The faculties design Certificate, Skill based and Value added courses focusing on employability enhancement and entrepreneurship development for the students. Documentation: The following documents are maintained for curriculum delivery and monitoring: 1. Teaching and lesson plan including laboratory plan 2. Lecture notes available online 3. Gap identification process and design of co-curricular activities to fill the gaps 4. Mapping of CO and PO and calculation of CO attainment 5. Feedback from all stakeholders on curriculum, classroom teaching as well as co-curricular activities 6. Academic monitoring activities like attendance monitoring of students & counseling of students with poor

attendance, mentoring of students, course delivery monitoring, audit of course material and Laboratory are conducted.

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
Basic Of Communication Skills	NA	01/02/2019	2	employability	Speaking skills and Grammar usage
Basic Mathematics	NA	07/02/2019	2	employability	Developing skills required for aptitude and competitive exams
Data Science Ind 4.0	NA	01/03/2019	6	Data Science tools. Techniques understanding future smart factories	Automation Digital Transformation ML, AI, and IoT

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nill	Nil	Nill
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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	Comp	02/07/2018
BE	Electronic and Telecommunication	02/07/2018
BE	Information Technology	02/07/2018
BE	Mechanical	02/07/2018

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

	Certificate	Diploma Course
Number of Students	50	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
3 D Printing	01/09/2018	17
Artificial Intelligence using Deep Learning	17/08/2018	42

FPGA Based Digital System Design Using Xilinx Software	23/02/2019	15
Robotics Automation IOT (CRAI).	01/03/2018	42
Wireless System Design	18/01/2019	28
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Electronics and Telecommunication	45
MMS	Finance, HR, Marketing, Operations	60
BE	Mechanical Engg	124
BE	Information Technology	12
BE	Computer Engg	9
	No file uploaded.	

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 different feedback obtained are as follows: 1. Curriculum feedback from all stake holders (industry, alumni, parents) taken during the academic term. 2. Feedback on the teaching-learning process is received from students (twice in a semester), parents (once in a semester) and prospective employers(once a year). 3. Feedback on the campus facilities like canteen, library, ICT facilities, campus hygiene, etc.from students ,faculty, parents and recruiters once in a year 4. Feedback on co-curricular activities is taken from students at the end of the event Structured questionnaire is available for the same. Some feedback is taken online while some are collected manually. The received feedback is analyzed on a scale of 1 to 5 and forwarded to the Head of the institution with necessary suggestions. Based on this feedback, necessary action plan is made by each department and implemented in the upcoming semester. Departments receive feedback from parents through parent teacher meetings and discuss different issues related to the overall development of their ward. The feedback form for parents and students is distributed in the classroom and also made available on the DBIT website (https://www.dbit.in/index.php/feedback). The Alumni feedback is taken during alumni meet along with online submission. The feedback is then consolidated by

the coordinator and suggestion are given to the respective Head of Department. Analysis of the feedback is done to improve the teaching learning process and keep pace with the changing trends in society, industry and academia. The student's feedback is taken for all the theory and practical courses taught to them in each semester on the syllabus and its adequacy, teaching methodologies adopted by the teachers, teachers approach-ability and response towards students, teachers ability to teach a subject and control the class, about syllabus coverage, about the organization of lectures, use of modern tools of pedagogy etc. 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 etc. The Feedback from Alumni is sought (after graduation) about the role played by the institute for the progress of students in their career, about the impact of training provided by the college, the enhancement in their maturity level , 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, behavior, 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. The feedback on campus facilities is taken very seriously and forwarded to the Management for improvements.

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
MMS	MB3208	60	68	60
BE	MECH(320861210)	120	120	108
BE	IT(320824610)	60	73	62
BE	COMP(320824510)	60	73	64
BE	EXTC(320837210)	60	58	49
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	1427	120	82	7	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 Tools and resources	Number of ICT enabled	Numberof smart classrooms	E-resources and techniques used

	ICT (LMS, e-Resources)	available	Classrooms		
89	86	17	17	2	14

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View File of ICT Tools and resources

View File of E-resources and techniques used

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

1. Mentoring is an essential part of DBIT the education system as it conforms to the Institute's vision to create engineers with sound technical knowledge who are good human beings. 2. The mentoring process begins as soon as the students take admission to the institute. Mentors are assigned to the students with the intent of helping the students adjust to the shift from a school based environment to a professional environment. All mentors are trained in the mentoring process and are made aware of the Dos and Donts of effective mentoring. The mentor accompanies the students in thier professional growth through the indicators of attendance and academic performance to begin with. 3. The focus of the mentors (with life as the arena) is to understand the needs of the student and facilitate her growth as an individual as well as a professional and facilitate growth through encouragement 4. All mentors will maintain a mentee logbook and commit to meet the students on a regular basis. It is desired to keep the important content of the conversation written in the logbook. 5. Mentors will follow the following basic principles while dealing with mentees: • Will not ask if the student has a particular addiction • Will not accuse the student (for low marks, low attendance etc.) • Will refer students who require professional assistance to the HOD/ Principal/ Institute Counselors or the Campus Minister. 6. Feedback is taken regularly from mentors and mentees to keep the mentoring process relevant. 7. Parents and Counsellors are involved whenever the need arises. 8. The mentoring process has yielded success in reducing cases of chronic absenteeism. It has motivated students to avail of assistance in controlling addiction.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1547	89	1:17

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
76	89	Nill	Nill	13

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. Sudhakar Mande	Professor	Dr. Sudhakar Mande has been elected as a member of Board of Studies in Electronics and Telecommunication, University of Mumbai.
2018	Dr. Sudhakar Mande	Professor	Dr. Sudhakar Mande had been appointed as Session Chair for the following conferences: Conference on

			Technologies for Future Cities (CTFC) - 2019, organized by Pillai College of Engineering, Panvel, Navi Mumbai from January 8-9, 2019. Equinox 2018 - 4
2018	Dr. Sudhakar Mande	Professor	Dr. Sudhakar Mande had been nominated by the Hon'ble Vice - Chancellor, University of Mumbai as a Member of the Statutory Body of K. J. Somaiya College of Engineering for a tenure of three years.
2018	Dr. Sudhakar Mande	Professor	Dr. Sudhakar Mande has been appointed as a Member of the Advisory Committee by the Atharva College of Engineering, Terna College of Engineering, and Rajiv Gandhi Institute of Technology, Mumbai.
2018	Ms. Ashwini Kotrashetti	Assistant Professor	Ms. Ashwini Kotrashetti, HoD EXTC Department, has been appointed as Jt. Treasurer for IEEE Bombay Section for a tenure of two years. She has been serving as Secretary of IEEE Bombay Section MTT-S Chapter since Jan 2013.
2019	Ms. Poonam Chakraborty	Assistant Professor	Ms. Poonam Chakraborty has been appointed as a Session Chair in the 4th International

2018	Mrs. Pratibha Dumane	Assistant Professor	Conference on Recent Advances Challenges in Engineering and Management held on 29th and 30th March 2019 at Vidyalankar Institute of Technology.
2018	Mrs. Pratibha Dumane	Assistant Professor	Mrs. Pratibha Dumane has received the Elite Silver Certificate In the NPTEL Online Certification Course on Introduction to Professional Scientific Communication.She is amongst the top 5 of the total 200 candidates who got certified in the course
2018	Mr. Jithin Saji Isaac	Assistant Professor	Mr. Jithin Saji Isaac has received the Elite Silver Certificate In the NPTEL Online Certification Course on Embedded System Design with ARM
2019	Dr. Amiya Kumar Tripathy	Professor	Program Committee Member at 6th International Conference of Advanced Computer Science Information Technology (ACSIT 2019) May 26~27 2019, Dubai, UAE
2019	Dr. Amiya Kumar Tripathy	Professor	Advisor to ICIATE-2018, International Conference on Innovative and Advanced Technologies, March 27-29, 2019, Mumbai, India
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2.5 – Evaluation Process and Reforms

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

the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	1T00713	III / Second Year	21/12/2018	04/02/2019
BE	1T01013	III / Second Year	17/12/2018	04/02/2019
BE	1T01423	III / Second Year	17/12/2018	12/02/2019
BE	1T01223	III / Second Year	17/12/2018	15/03/2019
BE	1T00723	III / Second Year	17/12/2018	04/02/2019
BE	1T01023	III / Second Year	17/12/2018	04/02/2019
BE	1T01812	II / First Year	18/12/2018	04/02/2019
BE	1T01822	II / First Year	18/12/2018	22/02/2019
BE	1T01811	I / First Year	27/12/2018	01/04/2019
BE	1T01821	I / First Year	27/12/2018	11/03/2019
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

The institution has adopted the Outcome Based Education system. Course outcomes are framed at different levels of Blooms Taxonomy. Continuous efforts are put in to ensure that the question papers for the Internal Assessments map to the course outcomes designed for the subjects.For attaining higher level outcomes the students are made to participate in activities like Project Based Learning, Seminars, Case studies,etc and they are assessed accordingly against clearly defined rubrics. The Internal Assessments are carried out at the Institute level similar to the end semester examinations for ensuring that there is uniformity across departments in the conduct of the examination. To ensure transparency in assessment, the assessed answer books are shown to the students. Average of two internal tests is considered for the internal assessments. The marks are uploaded on MIS and made available to students and their parents. The answer books and the solutions undergo an audit by auditors nominated by the Head of Dept. The institute has constituted an Examination Committee consisting of the Controller of Examinations, and one faculty nominated from each department. This committee looks into any grievance related issues and is an interface between the exam department and the other departments in the institute. In some cases, faculty members conduct online exams using Moodle Learning Management Software. Faculty members also give assignments to the students to augment the prescribed syllabus. Activities lke industry visits and expert lectures are conducted to provide content beyond syllabus. The assignments are accounted as part of the term work to be carried out by every student. Term work marks are allocated based on continuous performance in the internal assessments and any other task assigned.

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 start of each semester to ensure smooth conduct of academic, co-curricular and extra-curricular activities during the semester. The calendar is useful in planning events and fulfiling academic requirements, student feedback, remedial sessions, etc.The calendar is circulated among the students, teaching and the non-teaching faculty and also uploaded on the website. The Academic Calendar is prepared by the Principal and the HODs by mapping the important activities to be conducted during the semester to the number of instructional days actually available in the semester. An effort is made to balance the academic and co-curricular activities without disturbing the conduct of classes. Once the institute level Academic Calendar is finalised the departments prepare their departmental calendars. Departmental calendars map the various student chapter events and department specific activities.Overlap of activities is avoided as far as possible. Strict adherence to the calendar is enforced.

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	60	59	98
320861210	BE	MECH	146	136	93
320824610	BE	IT	79	75	95
320824510	BE	COMP	80	76	95
320837210	BE	EXTC	77	70	91
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2.7 – Student Satisfaction Survey

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

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
Minor Projects	280	University of Mumbai	310000	124000
Any Other (Specify)	280	DBIT, Mumbai	168000	168000

Any Other (Specify)	280	DBIT Mumbai	33000	33000
Any Other (Specify)	280	ISHARE Student Chapter	50000	50000
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Android Certification Course	Computer Engg.	13/10/2018
Aspiring Entrepreneurship Workshop	Computer Engg.	17/09/2018
Connaissance - 2019	Computer Engg.Computer Engg.	11/01/2019
Synchrony Meet 18-19	Computer Engg.	18/05/2019
Social Business Sumit 18 -19	MMS	16/02/2019
Seminar on Plagiarism and Academic Integrity	Mechanical Engg	09/02/2019

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
Distribution Network Management	Roshan James	SIH - 2019 , Ministry of HRD , AICTE	02/03/2019	National – Perstient Award (SIH - 2019)
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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
0	0	0	0	0	Nill
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	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
0	Nill

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	15	2.8

International	Computer Engg.	3	2.9

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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	11
Mechanical	6
Information Technology	2
Computer Engg.	21
Basic Humanity and Science	3
MMS	1

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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
Sustainability Assessment by Use of Fuzzy Logic - A Review	Pratibha Dumane, Anuja Sarate, Satishkumar Chavan	International Conference on Computing, Communication and Signal Processing (ICCSP2019), Advances in Intelligent Systems and Computing, Springer, Singapore, Vol 810, pp. 363-370, 2019	2019	0	Don Bosco Institute of Technology,Mumbai.	Nill
Radiomics for Peripheral Zone and Intra-Prostatic Urethra Segmentation in MR	Satishkumar S. Chavan	Biomedical Signal Processing and Control, Elsevier, Vol. 51, pp.19-29, January	2019	1	Don Bosco Institute of Technology,Mumbai.	1

	Imaging		2019				
	Review of USB Bandpass Filter With Multiple Notches for Broadband Applicatio ns	Dr. Sudhakar Mande	Journal of Applied Science and Comput ation ISSN No. 1076-5131, Vol.5, Issue No. 10, October 2018, P-860-864.	2018	0	Don Bosco Institute of Technol ogy,Mumbai .	Nill
	Design and Implem entation of Multiband Antenna for Wireless C ommunicati on	Naheed Anjum Khan	Asian Journal of Convergenc e in Techn ology, Vol. IV, Issue II, November 2018, F.- 5.11.	2018	0	Don Bosco Institute of Technol ogy,Mumbai .	Nill
	Hardware Implementa tion of Routing Algorithm for WSN Monitoring Intrusion Detection using Zigbee Technology	Aparna Telgote, Poonam Cha kraborty,	Internat ional Journal of Applied Science and Comput ations, Volume 5, Issue 10 (2018)	2018	0	Don Bosco Institute of Technol ogy,Mumbai .	Nill
	Study of Impact of Solar Cell Mismatch of the Per formance of PV Module Using PSpice	Dr. Sudhakar Mande	Journal of Applied Science and Comput ation Vol.5, Issue No. 10, October 2018, P-825-828.	2018	0	Don Bosco Institute of Technol ogy,Mumbai .	Nill
	Design Of Passive Optical Network For Hospital Management	Poonam C hakraborty	Asian Journal of Convergenc e in Techn ology, Vol. IV, Issue I,	2018	1	Don Bosco Institute of Technol ogy,Mumbai .	1
	Hardware Prototype	Poonam C hakraborty	Internat ional	2018	0	Don Bosco	Nill

Design for Real-Time Collision Detection and Prevention Application of VANET"		Journal of Scientific Engineering Research Volume 9, Issue 7, pg. 530-535, July-2018,			Institute of Technology,Mumbai.	
Design and Implementation of a Solar Dryer for Food Industries	Madhavi Pedenekar	International Journal of Applied Science and Computations, Volume 5-Issue 10 (2018)	2018	0	Don Bosco Institute of Technology,Mumbai.	Nill
Variability Aware Performance Analysis of CMOS 1-Bit Adder Circuits	Lakshmi V, M. Iqbal, Kawaljeet, Sudhakar Mande	International Journal of Applied Science and Computations, Volume 5, Issue 10 (2018)	2018	0	Don Bosco Institute of Technology,Mumbai.	Nill

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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
"Radiomics for Peripheral Zone and Intra-Prostatic Urethra Segmentation in MR Imaging,"	Satishkumar S Chavan	Biomedical Signal Processing and Control, Elsevier, Vol. 51, pp.19-29, January 2019 (Impact Factor: 2.783).	2019	1	1	Don Bosco Institute of Technology, Kurla ,Mumbai -400070
Sustainability Assessment by Use of Fuzzy Logic - A	Pratibha Dumane, Anuja Sarate, Satishkumar Chavan	Computing, Communication and Signal Processing:	2019	Nill	Nill	Don Bosco Institute of Technology, Kurla ,Mumbai

Review		Advances in Intelligent Systems and Computing, Springer, Singapore, Vol 810, pp. 363-370, 2019				-400070
Performance Analysis of VoIP under the Effect of Interference and During Conference Call in WLAN network using OPNET Modele	Poonam Chakraborty, Aparna Telgote,	International Journal of Intelligent Systems Design and Computing (IJISDC),	2019	Nill	Nill	Don Bosco Institute of Technology, Kurla ,Mumbai -400070
Spatial Modulation Technique: Achievements and Challenges	Namita Agarwal	Computing, Communication and Signal Processing: Advances in Intelligent Systems and Computing, Springer, Singapore, Vol 810	2019	Nill	Nill	Don Bosco Institute of Technology, Kurla ,Mumbai -400070
Detection of Malaria Parasite Based on Thick and Thin Blood Smear Images Using Local Binary Pattern	Satishkumar Chavan	Computing, Communication and Signal Processing, Springer, Singapore, Vol. 810, pp. 967-975, 2019.	2019	1	1	Don Bosco Institute of Technology, Kurla ,Mumbai -400070

Performance Analysis of LAN, MAN, WAN and WLAN Topologies for VoIP Services using OPNET Modeler	Poonam Chakraborty, Aparna Telgote,	Computing, Communication and Signal Processing: Advances in Intelligent Systems and Computing, Springer, Singapore, Vol 810	2019	Nill	Nill	Don Bosco Institute of Technology, Kurla ,Mumbai -400070
Gesture Aided Voice for Voiceless	Dipti Jadhav	Gesture Aided Voice for Voiceless: 10th International Conference, IHCI 2018, Allahabad, India, December 7-9, 2018, Proceedings	2018	Nill	Nill	Don Bosco Institute of Technology, Kurla ,Mumbai -400070
Opinion Mining Using Combinational Approach for Different Domains	Amiya Tripathy	Journal of Electrical and Computer Engineering	2018	1	1	Don Bosco Institute of Technology, Kurla ,Mumbai -400070
INTERACTIVE TACTILE GRAPHICS FOR THE BLIND	Mayura Gavhane,Dipti Jadhav	International Journal of Advanced Research 6 (10):901-906	2018	Nill	Nill	Don Bosco Institute of Technology, Kurla ,Mumbai -400070
Design Of Passive Optical Network For Hospital Management	Poonam Chakraborty	Asian Journal of Convergence in Technology, Vol. IV, Issue I,	2018	1	1	Don Bosco Institute of Technology, Kurla ,Mumbai -400070
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local

Attended/Seminars/Workshops	1	2	Nill	36
Presented papers	25	1	Nill	Nill
Resource persons	1	Nill	1	7

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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
Yoga session for students and teachers	DBC, BMM Department , Mumbai	48	50
workshop on Green campus for students	Green Alliance, Don Bosco Matunga, Mumbai	1	52
Session on Attitude building	NSS unit DBIT Mumbai	4	160
Football is life-Football coaching to the Slum children	Lokseva Sang, Govandi, Mumbai along with international foundation of Madrid club, Spain	1	4
Workshop on Disaster Managment	Disaster Managment cell, MCGM, Mumbai	1	103
School Teachning	Mumbai Utkal English High School, Nawpada. Kurla, Mumbai	1	17
Green Campus	NSS Cell , DBIT, Mumbai	1	14
Health Check-up camp for staff	Lions Club Ghatkopar and Holy cross medical trust, Kurla, Kohinoor Hospital, DY Patil Dental college and Dr. Eye foundation.	80	15
Voters Awareness Rally	Election office, Kurla	1	50
Road Safety	Traffic Police department, Kurla	1	8

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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
Blood Donation Drive	Appreciation certificate	KEM, Nair and Jaslok Hospital, Mumbai	245
Contribution in Blood collection	Contribution in Blood collection	Mumbai District Aids Control society	245
RRC activity	NACO, New Delhi	NACO, New Delhi	30
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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
NGO Internships	Sanmitra Trust,Gate No.7 Malad West	NGO Internships	1	8
NGO Internships	APNALAYA...417-18 Mahinder Chambers, Chembur East, Mumbai, 400043	NGO Internships	1	4
NGO Internships	Saahasee Trust... 12th Floor, Bhiwandi Bypass Road, Saibaba Mandir,Bhiwandi Kalyan west	NGO Internships	1	7
NGO Internships	DBDS...Don Bosco school Matunga.	NGO Internships	1	4
NGO Internships	Don Bosco Balprafulta, Rd Number 16, Opposite St. Joseph High School, Wadala, Mumbai, 400031	NGO Internships	1	5
NGO Internships	Don Bosco Shelter Rd Number 16, Opposite St. Joseph High School, Wadala, Mumbai, 400031	NGO Internships	1	5
NGO Internships	Helpage India, 34 A/44,	NGO Internships	1	6

NGO Internships	Teach a Class 301 A to Z Industrial Estate, Lower Parel West, Lower Parel, Mumbai, 400013	NGO Internships	1	5
NGO Internships	Sparsha Charitable Trust Shram Shakti . C1. Romm no. 110 Next to Wadala TT Polce Station, Wadala RTO	NGO Internships	1	6
NGO Internships	Asha Handicrafts Golani Naka, Vasai East, Vasai, Maharashtra 401208	NGO Internships	1	2
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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
Project at BSNL	3	Self Finance	240
Field Trip at BSNL Thane	50	Self Finance	1
Dial 4242 PROJECT: AMBULANCE BOOKING USING GOOGLE ASSISTANT	3	Self Finance	90
Dial 4242 PROJECT: AMBULANCE TRACKING SYSTEM	3	Self Finance	90
Reliance Jio Infocomm Ltd. Mumbai	3	Self Finance	30
Airports Authority of India , Mumbai	1	Self Finance	25
Reliance	1	Self Finance	30

Industries Ltd.,Mumbai					
Internships :Vighneshwar Airconditioning PVT LTD, Mumbai (ISHRE)	4		Self Finance		15
Internships : KRUGER VENTILATION INDUSTRIES (lNDlA) PVT. LTD. ((ISHRE)	2		Self Finance		25
Internships : Advantek Air Systems Pvt Ltd, Bhiwandi((ISHRE))	2		Self Finance		30
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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
Internship	Internship	Sharekhan,SN 9, Bldg 5, Matruchaya CHS, Tilak Nagar, Chembur West, Mumbai, Maharashtra 400089	Nill	Nill	2
Internship	Internship	IMRB Inter national, 3rd Floor, Mhatre Pen Building, Senapati Bapat Road, Mumbai – 28-24323200	Nill	Nill	2
Field Trip /Research	Field Trip /Research	Indian Society of Heating, Ref rigerating and Air Conditioning Engineers (ISHRAE)	Nill	Nill	12
Internship	Internship	Boston Iny Healthcare	Nill	Nill	1

		solutions, Prabhat colony santacruze east Mumbai-400055				
Internship	Field Trip	BSNL Satellite earth station, Bendipada, Yeoor Hills, Thane West, Thane, Maharashtra 400610	Nill	Nill		50
Research	Research	Edith Cowan University (Australia)-JOONDALUP CAMPUS,Western australia 6027, Telephone:-134328	Nill	Nill		1

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 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
CSIR-IICT, Hyderabad	23/10/2018	Consultancy services for establishment of water analysis and purification lab	4
Lunghwa University of Science and Technology	11/07/2018	To promot acadamic exchange and co-operation ,exchange of faculty students and researche	4
Fu Jen Catholic University	11/03/2018	Exchange of students and faculty,short term summer program, Joint cultural or research program	4
Radiojitter concepts Lab LLP,: 303 Butterfly Apartment, Panathur Main Rd, Mariyappa Layout,	23/02/2019	Guidance for Project Design and Implementation, Internship for students, Expert Lecture and student	3

Kadubeesanahalli, Bengaluru, Karnataka 560103		placement	
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	4
Sequelstrings ,DBCL Campus, Kurla(W), Mumbai	15/06/2019	Student and faculty internship, student and faculty projects	23
Shri Vithal Education and Research Institute's College of Engineering, Pandharpur	23/05/2019	to explore the research in the area of microfluidics and develop the Advanced Micro-Machining lab in the department	1

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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
115	99.58

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added

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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	17923	6502595	2877	92731	20800	6595326
Reference Books	2243	4650051	507	40252	2750	4690303
e-Books	Nill	Nill	1200	Nill	1200	Nill
Journals	Nill	Nill	29	69500	29	69500
e-Journals	1173	630000	Nill	Nill	1173	630000
Digital Database	1	614553	Nill	Nill	1	614553
CD & Video	1353	Nill	Nill	Nill	1353	Nill
Library Automation	1	Nill	Nill	Nill	1	Nill
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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 Amiya Tripathy	DWM	Moodle	01/12/2019
Dr Sudhakar Mande	LIC	Moodle	01/12/2019
Dr. Satish Chavan	IPMV	Moodle	22/01/2019
Ms. Pratibha Dumane	SP	Moodle	21/01/2019
Ms. Namita Agrawal	CCN	Moodle	14/01/2019
Mr B S Chavan	Robotics	Moodle	30/09/2018
Prof. Shreeprasad Manohar	CAD/CAM	Moodle	19/07/2018
Prof. Cleta Pereira	MUS	Moodle	07/12/2018
Ms. Aparna Telgote	MC	Moodle	19/07/2018
Ms. Aparna Telgote	DSD	Moodle	19/07/2018
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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/	Others

									GBPS)	
Existing	1123	875	1123	0	1	33	102	50	47
Added	56	49	0	0	0	7	0	0	0
Total	1179	924	1123	0	1	40	102	50	47

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	http://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
200.25	169.59	202.98	181.71

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)

Response: 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.Class In-charges do the 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 and submit report to housekeeping coordinator of respective department. 2.Laboratory in-charge along with laboratory assistant inspect laboratory for adequacy of equipment(s),consumables, working of computers, ensuring availability of prescribed software on each machine, inspection of lab furniture and replacement /repair of broken furniture, working of projectors, printers, scanners if available, electrical connections and submit report to housekeeping coordinator for further processing. 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.Laboratory in-charge give request for purchase of new equipment , procurement of consumables and raw materials required for conduct of experiments in the laboratory as per curriculum requirement. 5.Stock counting in the library at the end of the academic year and procurement of books for the new semester as per the syllabus. 6.Stationery required for academic and administrative functions is procured. 7.Any infrastructural requirements like painting , renovation, restoration, modernization of IT infrastructure, etc. is carried out 8.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 availability of books, accessing of journal articles, utilization of plagiarism software, etc. 4. The sports committee along with the Sports-in-Charge ensure the availability of sports equipment and monitor 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/about-us/policies

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	3	108552
Financial Support from Other Sources			
a) National	Various Scholarship	398	18511887
b)International	NA	Nill	0
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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
Personal Counselling, Mentoring	15/02/2019	283	Ms.Amrita Achrekar , Ms. Kuntal Joshi,Counsellor, Don Bosco Institute of Technology, Kurla, Mumbai-70 Mob.: 9833548208 2)Faculty of Departments (DBIT) : BSH, EXTC, Mechanical , Computer Contact No : 022 25042929
Yoga and Meditation	23/08/2018	283	Ms.Pooja Gupta, HOD,DB- Mac , Don Bosco Media Arts

			Center, Kurla ,Mumbai Contact No : 022 25042929
Bridge courses	01/11/2018	100	In house faculty of the Institute
Language lab	18/01/2019	17	Faculty of Departments (DBIT) : BSH conntact No : 022 25042929
Remedial coaching	14/09/2018	185	In house faculty of the Institute
Soft skill development	08/10/2018	283	Fr. Glenford, Don Bosco , Matunga, Mumbai
Career Counselling	16/08/2018	283	External agencies
Guidance for competitive examinations	02/07/2018	27	Ten Faculty from mechanical and mathematics department of the Institute
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 5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	Kareer Catalyst 2020	Nill	222	Nill	176
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 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
6	5	15

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
Various Or ganizations	287	218	Various Or ganizations	47	35
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	14	BE	IT and Mechanical	Various Universities	MS

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

Items	Number of students selected/ qualifying
GATE	2
GRE	25
TOFEL	17
Any Other	4

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

Activity	Level	Number of Participants
Cultural and sports	Department	630
Cultural	Institute	1258

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Inter collegiate event-KIRAN 2018	National	Nill	1	2017145073	Quadros Zaccaria Joseph Ida
2019	Inter collegiate sports event-ATHLOS 2019	National	1	Nill	20171451 06, 2016144745	Velchris tine Rodrigues, Vishakha Dikshit

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

Student Council is the representative body of the students of the college. The objective is to make the students participate in the development of the institute as well as in the process develop their personality, organizational skills and career through interactive programs with the faculty, administration and society. The goal of the student council is to 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. Activities under the council will be well supported by a team of faculty members. 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 Since AY 2018 – 2019 the post of Public Relation and Sustainability Secretary were discontinued and two new posts Alumni Coordinator and Marketing Secretary were introduced. Student representatives are an integral part of the following committees: • Anti-ragging • IQAC • CDC • Training and Placement • SC/ST/OBC • Women's Development Cell • Minorities Cell • Canteen • Website Development and maintenance • Disciplinary • Internal Exams • Housekeeping and Maintenance • Library The student secretaries are groomed various leadership and outreach program. They prepare the annual activity calendar and propose the annual student activity budget which is sanctioned by the Principal. They submit a formal report and the expenditure statement for each event.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

5.4.2 – No. of enrolled Alumni:

718

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

33700

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Konnect 2019 Synchrony Meet 2019

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 appoints Deans (Academic, Research and Administration) and Heads of Departments to manage the day to day operations. The appointments are for a period of 3 years thereby providing all senior faculty an opportunity to handle the responsibility. • Deans and HODs have the autonomy to manage their domains as effectuively 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 a functional CDC (College Development Committee) comprising of management representatives and elected representatives of the teaching and non-teaching staff. The CDC gives important inputs that are taken up by the management for implementation. • The IQAC meets atleast twice a year to propose quality improvement initiatives and take stock of practices already adopted by the institute. Student representatives are also part of the IQAC. • The various committees at the institutional level meet regularly to assess the campus requirements and propose measures to improve the environment on campus. CASE STUDY 1 Decentralization and participative management is evident in the process of preparation and sanction of the Annual Budget which is elaborated below: • 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: Every department is given
freedom to operate independently while being goverened by the guidelines issued
by the management. The department is authorized to take decisions like
organizing of guest lectures to make students aware of the cutting – edge
technology in their respective domain, budgetary provision, etc. The department
is also free to plan and execute 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 is organized by department of Information Technology, to
develope 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
Curriculum Development	The curriculum is provided by the Mumbai University. 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	1. Semester Pre-commencement Preparations- 2. Teaching , Lesson and Practical plans are created by the faculty 3. Course learning Objectives and Course Outcomes 4. Course notes and presentations are uploaded on Moodle 5. Updating the library with appropriate books as suggested by the faculty 6. Monitoring students performance through Internal Assessment Test-I and II , assignments and projects. 7. Student feedback and peer review is collected with regards to the teaching . 8. Result analysis at the end of internal assessment test 9. Remedial classes for slow learners. 10. Inputs from IQAC, Department Academic advisory committee, Parent-Teacher association and various feedback mechanisms is considered for improvising the teaching-learning.
Examination and Evaluation	1. The students have to submit the

	term work of 25 marks at the end of the semester in which their performance in the laboratory is evaluated 2. Two internal assessment tests of 20 marks each are conducted during the semester to evaluate the performance in the lectures 3. Oral/Practical examination is conducted at the end of the semester as prescribed by the university curriculum 4. The student has to appear for end semester exam of 3 hour duration which is conducted by the university
Research and Development	1. Publishing of DBIT TECH Journal 2. Appointment of Dean R and D, External Mentors to mentor faculty for research. 3. Since 2014, faculty have been submitting proposals to the Mumbai University under the Minor Research Scheme. This year 3.1 lacs worth minor research are carried out by the faculty 4. Each department has formed research groups of faculty members and have set research goals and timelines for their activities. These are monitored by the Research committee and the Dean of R and D 5. Presently 2 projects worth approximately Rs. 2 lacs have been sponsored by the management and work is underway 6. An MoU has been signed with IICT. Hyderabad, which is a CSIR lab to set up a research laboratory in DBIT and undertake joint research in water testing and water purification 7. MoUs have also been signed with 2 universities in Taiwan for collaborative work and faculty/ student exchange 8. More MoUs are envisaged in sensor technology, micro machining, GIS studies, etc.
Library, ICT and Physical Infrastructure / Instrumentation	1. The Library committee gives guidelines for improving the quality of library resource. Suggestions from student's for Library and IQAC suggestions are used for improvement in quality of library resource. 2. New books/journals /software are purchased every year to update the library. 3. Presently, Library Circulation is fully automated. 4. The ICT facilities are provided in every class room for effective teaching learning 5. The institute has well equipped labs as per the AICTE requirement 6. New software and hardware is purchased once sanctioned in the respective budget of each department

Human Resource Management	1. The faculty recruitment happens as per the norms provided by the university 2. Skill development programs are organized for the staff 3. Staff is encouraged for self development and qualification enhancement 4. Various Staff welfare schemes are presently employed 5. 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
Industry Interaction / Collaboration	1. Inclusion of industry experts in Academic Advisory Board (AAB). 2. Students and faculties are encouraged to go for internships in the industry 3. In view of sharing technical resources and expertise, MOUs are signed with reputed companies 4. 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
Admission of Students	1. Eligibility criteria as prescribed by the Government of Maharashtra and given in the Admission Rules. 2. 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. 3. 49 percent seats are filled through CAP conducted by DTE. 51 percent seats are reserved for Minority candidates (Roman Catholic Community).

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

E-governace area	Details
Planning and Development	In house Management Information System is used to plan implementation of course curriculum..The in-charge for the same is an in house team.
Administration	In house Management Information System is used to plan implementation of , attendance of students and faculty.The in-charge for the same is an in house team.
Finance and Accounts	We are having Tally ERP 9.0 for

	managing the accounts, payroll and finance
Student Admission and Support	Most of the admissions are centrally managed by the DTE through their central admission process.The management seats are managed internally.
Examination	We are using internally developed software for result gazette generation and marksheet preparation which is called NEST and is managed by our internal team

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
2019	Shafaque Syed	3rd Beinnial International Conference on Nascent Technologies	IEEE	1770
2019	Mayura Gavhane	I2CT 4th International Conference	IEEE	400
2018	Shainila Mulla	STTP:Machine Learning Applications for Spatio Temporal Data Analytics	IEEE GRSS	1250
2018	Dipti Jadhav	IHCI 10th International Conference	Springer	6000
2018	Deepali Kayande	STTP:Machine Learning Applications for Spatio Temporal Data Analytics	IEEE GRSS	1250
2018	Vaishali Kavathekar	The International Conference on Convergence of Technology.	IEEE	3500
2018	Janhavi B.	STTP on Machine Learning Applications for Spatio Temporal Data	IEEE GRSS	1250

2019	Nilakshi Joshi	ICDSMLA	Springer	4070
2019	Shafaque Syed	IEEE International Conference on Electrical communicatrion, electronics, Instrumentationa nd Computing	IEEE	4141
2019	Sejal Chopra	3rd Beinnial International Conference on Nascent Technologies	IEEE	1770
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	Water Research Project (Dr. Shreedhar)	Nill	13/06/2018	13/06/2018	61	Nill
2018	Building a culture of ownership and excellence (Leslie and Pearl)	Building a culture of ownership and excellence (Leslie and Pearl)	14/06/2018	14/06/2018	70	2
2018	Building a culture of ownership and excellence (Leslie and Pearl)	Nill	27/07/2018	28/07/2018	74	Nill
2018	NAAC Curriculum Planning	Nill	08/09/2018	08/09/2018	67	Nill
2019	Analysis of NAAC grade.	Nill	04/01/2019	04/01/2019	80	Nill

2019	Session on SEAD Journey by leslie and Pearl	Nill	05/01/2019	05/01/2019	78	Nill
2019	STTP on Machine learning Application for spatio temporal data analytics	Nill	07/01/2019	11/01/2019	10	Nill
2019	FDP on research	Nill	09/02/2019	09/02/2019	74	Nill
2019	FDP on Mentoring	Nill	23/03/2019	23/03/2019	79	Nill

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Training Program on IQAC NAAC guidelines	3	16/07/2018	22/07/2018	7
Workshop on AI using Deep Learning	1	17/08/2018	19/08/2018	3
4 days national level workshop on Artificial Intelligence using Deep learning	1	17/08/2018	20/08/2018	4
150 years of The Periodic Table of Physics	2	03/11/2018	03/11/2018	1
FDP on Intermediate Python	1	25/03/2019	25/03/2019	1
CSI Cyber FIF Conference	1	24/01/2019	25/01/2019	2
FDP on Data Science and Big Data Analytics	1	02/12/2019	06/12/2019	5
FDP on Spatial graph	1	15/01/2019	20/01/2019	5

databases: Data Modeling, Designing Query Processing				
STTP on Machine Learning Applications for Spatio Temporal Data Analytics	10	07/01/2019	11/01/2019	5
STTP on Open Source Tech for Comm Engg	5	02/07/2018	06/07/2018	5
		[View File](#)		

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
65	24	52	10

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
5	5	2

6.4 – Financial Management and Resource Mobilization

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

Institution conducts internal and external financial audits regularly The institute is a self financed private institute . Its main source of income is the tuition fee collected from the students. The Fee Regulatory Authority, Shikshan Shulka Samiti, decides the fee on the basis of the expenditure incurred by the institute. The institute has to submit the audited statement of accounts as evidence . Hence extreme diligence is maintained in preparing the income and expenditure statement. The final statement of accounts is audited by an external auditor each year. Some of the good accounting practices followed are: • Efficient and qualified accounts team with an Accounts Manager • All salaries are directly credited to the individual accounts through net banking • Net banking is used for making purchases and also for transferring money for workshops, conferences, trainings, etc. • Issuance of proper receipt against any income There is no formal process of internal audit however adequate checks and balances are put in place to ensure financial accountability. These are given below: 1. Individual departments submit a budget for the expenditure to be incurred under the following heads: • Infrastructure • Books and periodicals • Maintenance • Consumables • Equipment and hardware • Software • Training, conferences, expert faculty • Students activities 2. The Principal presents the consolidated income and expenditure budget before the CDC and then before the Governing Board for approval. 3. The budget for the infrastructure and campus maintenance is prepared by the Administrator in consultation with the Accounts Manager 4. All expenses are to be approved by the Dean of Administration 5. Expenditure under the various heads is monitored regularly by the Accounts Manager and any unplanned expense is discouraged 6. The purchase policy of the institute is adhered to. Transparency is maintained in all purchases. 7. There are separate processes for utilization of grants and funding received from external agencies. The accounting procedure prescribed by the funding agency is

followed. 8. Any income generated through training, consultancy, projects is properly accounted.

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
IEEE HAC 2018	354000	Inculcating healthy and sustainable menstrual hygiene practices among tribal women of Walvanda village

No file uploaded.

6.4.3 – Total corpus fund generated

354000

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. Parent -teacher meet is conducted to discuss about the educational progress and attendance report of the students 2. Suggestions regarding academic and administrative reforms are heartily welcomed and implemented wherever possible. 3. Parents are also informed about the various initiatives undertaken by the departments for the welfare of the students.

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

1. Workshop on Basic English Communication , conducted by internal communication faculty. 2. Workshop on Basic Computer Skills, conducted by in-house team. 3. Lecture on Smart Investment conducted by in-house faculty. 4. Lecture on Gender Sensitization, conducted by counselors.

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

1. Research and review for undergraduate students 2. To encourage the students to take up entrepreneurship, they are trained by experienced entrepreneurs. 3. ISO 9001:2015 Internal auditor training was conducted

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	Date of	Duration From	Duration To	Number of

	initiative by IQAC	conducting IQAC				participants
2018	Academic Audit	14/08/2018	04/09/2018	12/09/2018		45
2018	Exam Audit	14/08/2018	27/08/2018	10/09/2018		30
2019	Strategic Planning - 2020	14/08/2018	05/05/2019	05/05/2019		12
2019	Analysis of grade report to improve critical areas	09/05/2019	15/07/2019	15/07/2019		10
2019	Internal Auditor training - ISO 9001:2015	09/05/2019	12/08/2019	14/08/2019		10
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	07/08/2018	07/08/2018	2	48
Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	08/08/2018	08/08/2018	12	40
Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	27/08/2018	27/08/2018	19	48
Sexual	28/08/2018	28/08/2018	6	64

Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013				
Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	31/08/2018	31/08/2018	10	45
Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	04/09/2018	04/09/2018	20	33
Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	06/09/2018	06/09/2018	20	45
Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	10/09/2018	10/09/2018	14	31
Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	19/03/2019	19/03/2019	9	48
Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013	20/03/2019	20/03/2019	5	40

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.The institute has a lush green campus which is regularly maintained and provided with organic manure produced from the compost pit which is maintained on the campus by a dedicated team. The institute continues to put in great efforts to bring about awareness about sustainable development and encourages students and staff to take up projects within and outside of the campus for the same. A bio-gas plant is run using the canteen food waste. The set up is also used to conduct experiments in the subject of Renewable Energy Sources taught to final year students of Mechanical Engineering. Student teams are working on a project to reduce the power consumption of the sanitary pad incinerator installed in ladies washrooms. A five gas analyzer is purchased by the institute that detects the gases such as HC , CO2 , CO, O2 and NO and is being used to monitor the exhaust from the incinerator and for research by the faculty and students to design environment friendly products. Students are encouraged to maintain a kitchen garden where herbs and vegetables are grown and sold at nominal rates to the staff and students. The department of Basic Sciences and Humanities organizes a sustainability competition each year for the students of the first year to develop innovative and sustainable solutions for societal problems. Each department has a mandate of ensuring that at least 20 of the final year projects undertaken are based on environment and sustainability. The compost from the compost pit is sold at a nominal rate to students and faculty at DBIT to encourage them to manage their household waste and grow household plants. 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 CO2 emission is annually avoided. For the year 2018-19, the total annual power requirement was 773417 Kwh and the annual power requirement met by renewable energy sources is 87482.4 kWh. Hence the percentage power requirement met by renewable energy resources was 11 percent.

7.1.3 – Differently abled (Divyangjan) friendliness

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

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to	Number of initiatives	Date	Duration	Name of initiative	Issues addressed	Number of participating

	address locational advantages and disadvantages	taken to engage with and contribute to local community					students and staff
2018	1	Nill	11/08/2018	12	Football is Life	Training slum kids	10
2018	1	Nill	05/08/2019	1	Workshop on disaster management preparedness for students and staff	Preparedness for disaster management	125
2019	1	Nill	04/02/2019	30	career guidance	career guidance to school students	10
2019	1	Nill	04/02/2019	30	sports coaching	coaching to school students	10
2018	Nill	1	25/08/2018	1	Voter Awareness Rally	Awareness for voting	72
2018	Nill	1	04/09/2018	4	Road safety	Road safety and traffic awareness	8
2018	Nill	1	29/09/2018	1	Beach Cleaning Activity	Swachh Bharat	15
2018	Nill	1	03/11/2018	1	Diwali Mela	Celebration of festival with HIV affected children	298
2018	Nill	1	03/11/2018	1	Baseline survey for Muskan group	Survey for HIV positive	34
2019	Nill	1	28/03/2019	1	career guidance for progtam	career guidance for HIV infected	47

	children

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

Title	Date of publication	Follow up(max 100 words)
Service Book	02/01/2018	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.
Student Guidelines	02/01/2018	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 behavior 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

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
International Yoga day	21/06/2018	21/06/2018	350
Workshop on green campus	16/07/2018	16/07/2018	52
Attitude and Don Bosco Way	21/08/2018	21/08/2018	200
Disaster Management for students and staff	05/08/2018	05/08/2018	124
Voters Awareness rally	25/08/2018	25/08/2018	72
Road Safety and Traffic Control	23/09/2018	23/09/2018	10
Voter Enrollment Drive	28/09/2018	28/09/2018	287
Health Checkup Camp	18/02/2019	18/02/2019	212
Samvaad-2019	20/03/2019	20/03/2019	15
Praestania Drama team-Spring Fest	26/01/2019	26/01/2019	13
[View File](#)			

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

Attitude Building A talk on Green campus initiative was conducted for students. Some of the other activities conducted included Zero litter, Waste management, Water Management, Energy Efficiency, Sustainable travel, Avoid plastic pollution, Beach cleanup drive. The Green line group of the NSS is working on several projects which are related to environment conservation. Students have also prepared banners which describe the best practices of water management and electricity management which are displayed along the corridors and in classrooms, laboratories and washrooms of the institute.

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. At least 11 of the institute's energy requirement is supplied through solar panels

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.
Projects/Competitions: The institute encourages students and staff to take up projects in the field of sustainable development within and out of the campus. Around 16 of the projects carried out by students of the final year of engineering are on sustainable development. Three projects based on non-conventional energy have been funded under Mumbai University minor research grant schemes. Competition and exhibition is organized for the first year students in order to inculcate responsibility and commitment towards the environment at the very outset of the engineering program.
Purchase of Equipment -A five gas analyzer is purchased by the institute that detects the gases such as HC , CO2 , CO , O2 and NO is used for research by the staff and students to build environment friendly products. Testing and optimizing the performance of the engines designed by students while participating in n different vehicle building competitions and incinerator for disposal of sanitary napkins are some of the research areas the gas analyser is being used. Energy efficiency rating is a prime criteria for purchase of air conditioners, fans and lights on campus

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Practice – 1 Title of the Practice : Training students to deploy technology for community development. Objectives of the Practice: The objectives of this practice are as follows: • Sensitise the students to the hardships faced by local communities around Don Boaco institutions • Create an awareness amongst the students about the culture and the customs of the communities • Learn to engage with the communities and identify their problems • Select some of the problems for a detailed study and use technology, creativity and innovation to solve the problem partially of fully. The Context: The villages of Jawhar taluka, situated 140 Km North of Mumbai are tribal villages with poor literacy and health records. Farming is the main occupation but post monsoon the villagers migrate since there is no water available to sow another crop. The village women trek several kilometres each day to bring water and firewood. The students were given information about the watershed activities in the area by the Bosco Samajik Vikas Sanstha social workers and were encouraged to take up projects to improve the lives of the people. The practice: As part of the social outreach of DBIT the students are taken to a tribal village situated 140Km North of Mumbai and made to interact with the tribal villagers. The students study the problems of the villagers and to use technology to bring about positive changes in their lives. The camps are usually held in the months of December and January. 2 weeks prior to the camp the students are briefed on the culture and practices adopted by the villagers. Students teams are formed to engage with the villagers in the following areas: 1. Primary school education 2. Water management 3. Communication skills for young students in Jawhar college 4. Health and hygiene 5. Livelihood options The student teams meet with the villagers and prepare a list of activities to be undertaken. They create and action plan and conduct the activities with the participation of the villagers. A review meeting is held every evening to review the impact of the activities of that day and plan the course of action for the following day The students also spend 24 hours with a tribal family to learn about their culture and traditions and understand their issues. Evidence of success: 1. Building a bond with tribal students in colleges through student exchange programme conducted every year 2. Greater awareness on menstrual hygiene and use of healthy practices to manage menstruation. Dispelling myths on menstruation. 3. Village plan for equitable water distribution in village and GIS survey of water bodies in the villages under consideration and preparation of watershed plan 4. Better communication ability of school children and college 5. Projects taken up by students on health management, water management, design of solar

cookers for the community, design of efficient chulhas for the villagers Problems encountered and resources required: 1. The villagers have deep mistrust for outsiders and are not willing to share data 2. Villagers are dependent on external help and not willing to strive for a better life 3. There are too many myths and superstitions to be taken care of 4. A longer time period of interaction is required to bring in a positive change 5. The villages are too far away for regular interactions Resources required: 1. Travel grants 2. Social workers who are better informed of the customs and practices of the villagers and can help our student teams to interact with the villagers 3. Monetary help for bringing in small changes Practice – 2 Title of the Practice : Faculty Appraisal as a tool for departmental and institutional development and reward and recognition Objectives of the Practice: The goals of the practice are as follows: • Assess the contribution of each faculty • Grade the faculty as average, below average and above average performers • Assess departmental and institutional strengths and weaknesses • Provide a road map for faculty to set career goals and move to a higher performance level • Identify faculty who have made unique contributions and reward them • Benchmark institutional performance against that of better known institutions • Align faculty performance towards the Vision and Mission of the institute • Ensure compliance with the various criteria of NAAC and NBA • Raise the bar for minimum performance The Context: Each year the faculty undergoes a performance appraisal by a team of senior faculty including Advisor, Principal and HODs. The purpose of the appraisal is to help faculty understand their shortcomings and set higher performance goals. To achieve this objective the institute has designed a self -appraisal document that captures the faculty's contribution to academics, research, industry interaction and personal development. The self appraisal format helps the faculty rate their performance for each criteria and reduces the stress of appearing before a committee and being judged. The practice: The appraisal format is provided online to every faculty. The document has five main criteria and several sub-criteria as performance indicators. Each sub-criteria has four options which are arranged in increasing order of progress. Minimum performance criteria is shared with the faculty when they join the institution. In addition to regular teaching-learning faculty are expected to do the following: • Engage in research on campus • Engage with industry to identify their needs , carry out projects, conduct training • Upgrade skills and knowledge through certification, internship, etc. • Mentor students • Participate in outreach programmes for community • It is essential to measure the extent to which faculty is able to comply with these requirements and to reward those who are willing to walk the extra mile The Faculty chooses the option that best describes her work for the academic year. Faculty is advised to upload evidence to substantiate the option selected. The document is forwarded to the HOD who verifies the evidence and approves the option selected after a detailed discussion. A committee comprising of the Advisor, Principal and HOD scrutinise the information provided by faculty and do a random verification with a few faculty. The appraisal team summarises the contribution of all faculty and submits a report to the management faculty performance The Principal analyses the data to determine the strengths and weaknesses of each department. The same is shared with the department faculty. The committee mentors and counsels the department on performance improvement and on setting goals for the following academic year. to enable them to set targets for the following year to improve their performance. Individual faculty members are also mentored to set personal goals to improve their performance. Evidence of success: 1. The faculty is aware of her drawbacks and sets goals for improvement. 2. The department becomes aware of its strengths and weakness. 3. Above average performers are recognised and motivated to do even better 4. The management understands the extent to which its VISION and MISSION is being satisfied and identifies institutional strengths and weaknesses. 5. The management sets institute level goals and brings in practices to improve

institute performance. 6. With each year there is an increase in the minimum performance level of the department 7. Institutional objectives are being met organically Problems encountered and resources required: 1. Since the tool is based on self appraisal, faculty tend to overstate or sometimes understate their achievements 2. The tool has to be calibrated to ensure uniformity in self-assessment 3. Faculty has to be trained to upload the right evidence No additional resources are required

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.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 Vision statement of DBIT mentions research as a core aspect of growth and development of the institute. The institute aims to become a centre for research and development in the field sustainable technologies and train engineers to excel in industry, research and entrepreneurship. The institute encourages research culture among the faculty and students. It guides faculty to apply for Major and Minor Research Projects to the University of Mumbai, DRDO, IEEE etc. Grants ranging from 50,000/- to 2,50,00/- are sanctioned by the Management for conduct of in-house research to faculty who propose good research projects. Such proposals are scrutinised by an expert team before grant is sanctioned In the year 2018-19, total grants received for research was around 5.6 Lakh rupees. The institute has well defined Code of Ethics to guide students faculties toward the highest ideals of scholarly research. Adjunct faculty and Mentors are appointed to help faculty define good research projects and carry out original work.Faculties have actively participated in national and International conferences organized at national and international level and presented papers in reputed journals. In the year 2018-19, a total of 54 papers were published of which 19 were journal publications. The Institute has good collaboration with industries, academic institutes and professional bodies. Institute has signed MOUs with academia as well as industries. Several students completed internship training in various companies. Institute has more than 300 linkages with different organizations in order to execute internship, final year projects and faculty and student exchange. In the year 2018-19, five new MoUs were signed by the institute to foster institute-industry interaction and to bring joint research collaboration, among other things. DBIT has leveraged its social commitment by engaging with the under privileged communities around the institute's premises as well as in other areas where there is a Salesian presence like the tribal communities of Jawhar taluka in Palghar district. Students and staff work closely with these communities to understand their problems and develop technological solutions. Several of the final year projects of the students are oriented towards solving such problems. The institute also plans to set up a Centre for Sustainable Technologies to patent some of the solutions and help incubate them into successful businesses. DBIT strongly believes in nurturing entrepreneurship amongst its students and faculty and has created an ecosystem for this. Students are encouraged to work on ideas for their final year projects. Projects are exhibited in INNOVEX - the annual project exhibition and best projects are awarded. In order to encourage innovation on campus, an innovation centre is envisaged. Software that trains in idea generation and product development called INNOVATIONEXT has been purchased by the institute. Students of second year are formally trained in using the software to generate innovative ideas which they can explore in their third and final year.The institute has initiated a Value Added Course on Research and review for the third year students in order to promote research

culture at DBIT.

Provide the weblink of the institution
https://www.dbit.in/images/Admin/Institute-Distictiveness.pdf

8.Future Plans of Actions for Next Academic Year

Plan for AY - 2019 - 2020 : i) To improve quality of Course Outcome (CO). Experts Lecture (s) will be organized. Faculty to prepare CO as per Blooms Taxonomy (BT) for their respective courses and will be presented to the panel of experts. ii) To promote research culture and innovation among students To enhance the quality of research among under graduate students. Experts will create awareness about research in organized and systematic manner. iii) To promote faculty to strengthen industry - institute interaction through faculty internships. Faculty members will undergo minimum 15 days of industry internship in their domain of interest. iv) To promote entrepreneurship among faculty and student, training sessions are planned. To motivate students to take up entrepreneurship after completion of their program, they will be trained by professional, in various aspects of setting up a start-up. To motivate the faculty to take up research in the direction of product development. v) Faculty from various departments will be encouraged to register for their PhD. vi) Publications in journals will be improved. vii) Industry institute collaborative projects will be increased. viii) Incubation center will be established. ix) Center of Excellence in Automation and Robotics will be setup.