



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>	DR. B. R .AMBEDKAR INSTITUTE OF TECHNOLOGY
Name of the head of the Institution	Utpal Sharma
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	03192-250587
Mobile no.	9434280130
Registered Email	dbragpt.and@nic.in
Alternate Email	utp.sharma@gmail.com
Address	Dr. B. R Ambedkar Institute of Technology Pahargaon Junglighat PO
City/Town	Port Blair
State/UT	Andaman and Nicobar
Pincode	744103

<b>2. Institutional Status</b>	
Affiliated / Constituent	<b>Affiliated</b>
Type of Institution	<b>Co-education</b>
Location	<b>Urban</b>
Financial Status	<b>state</b>
Name of the IQAC co-ordinator/Director	<b>Dr. Shrabani Mallick</b>
Phone no/Alternate Phone no.	<b>03192250587</b>
Mobile no.	<b>9679534035</b>
Registered Email	<b>iqacbrait@gmail.com</b>
Alternate Email	<b>naacdbrait@gmail.com</b>

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://dbrait.andaman.gov.in/announcement/1680.pdf">https://dbrait.andaman.gov.in/announcement/1680.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	<b>Yes</b>
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://dbrait.andaman.gov.in/announcement/1696.pdf">https://dbrait.andaman.gov.in/announcement/1696.pdf</a>

<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
<b>1</b>	<b>B+</b>	<b>2.61</b>	<b>2018</b>	<b>03-Jul-2018</b>	<b>23-Jul-2023</b>

<b>6. Date of Establishment of IQAC</b>	<b>28-Oct-2016</b>
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<b>7. Internal Quality Assurance System</b>
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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
<b>Train the trainers on</b>	<b>04-Dec-2020</b>	<b>2</b>

exam reforms-	04	
Induction Program	25-Jul-2019 04	90
ROBOTICS	02-Oct-2019 02	72
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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
Dr. B. R. Ambedkar Institute of Technology	TEQIP	World Bank	2017 1470	100000000
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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)**

Organized 24 Hrs Hackathon on 31st August to 1st Sep'2019 . Organized a National level workshop on "Image Processing, Computer Vision, Deep Learning and IOT" under TEQIP from 28th January '2020 to 2nd February'2020 The department of mechanical Engineering organized a six (6) days workshop on ROBOTICS from 02.10.2019 to 07.10.2019 06 faculty members had attended 01 day training on Professional development at IIM Kashipur on 23.0919. 04 faculties attended a 05 training on 3D printing and Allied Technologies at IIT Guwahati Assam.

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

Plan of Action	Achievements/Outcomes
Special achievement	To motivate and encourage students towards studies, every year awards are given to subject toppers and overall toppers. In 2019- 20 Academic year 21 number of students have received the awards on the 73rd Independence Day celebration on 15.8.2019 in our Institute. Students who have scored 10 S in University theory exams were awarded cash prize of Rs 1500/- along with certificates and overall toppers were awarded cash prize of Rs 2500/- .along with Certificates. ? On the occasion of 71st Republic Day celebration on 26.1.2020, 10 number of students have received the awards as Semester Toppers with cash prize of Rs 2500/- along with certificates.
Industry Institute Interaction	The activities include: Internships; Industry expert lectures; Placement Activities & Hospitality; Industry Visits, etc.) ? One month Internship Trainings were carried out for B.Tech and Diploma students. ? 07 number of industrial visits were carried out at various local agencies/industries /department in the current session. Total 151number of students were benefited.. ? Institute with the support of G.B.Pant Govt Hospital, Port Blair arranged Counseling Session and medical Checkup on every Thursdays for students. 116 numbers of students have taken benefit. ? Organized an Interaction session with Students by Shri. Suneel Kaul, Vice President Eveready, Ltd, Kolkata on 25th August 2019. ? Student's interaction with Professors/ TEQIP Nodal Officers of NIT, Trichy on 27th August'2019. ? 126 number of Diploma students have passed out from the institute in July, 2019. 79 number of Degree students have passed out from the institute in July, 2019.
Reforms governance	Peer team from National Assessment and Accreditation Council, an Autonomous Institution of the UGC had audited our Institution from 6th to 7th April' 2018 for grant of NAAC Accreditation. Accordingly our Institute has been

	granted grade B+ NAAC Accreditation for five years.
Research and development	(The activities undertaken are conducting of Visit of students to Mentor Institute and other National Level reputed Institutes Attending seminar Conference by faculty Staff and Students. ? A workshop on ROBOTICS was organized from 1.10.2019 to 7.10.2019 with Trainers from Mainland, India. ? Visit of Team of Students & Faculty at ISRO, Bangalore related to Students' Project. The Team also met Mr. K.Sivan, ISRO Chairman. ?
Faculty staff development and motivation.	Deputing Faculty on Short Term Training Programme at IITs/NITs/Other reputed Institutes. Pedagogical training for faculty ? 06 faculty members had attended 01 day training on Professional development at IIM Kashipur on 23.09-19. ? 04 faculties attended a 05 training on 3D printing and Allied Technologies at IIT Guwahati Assam. ? Dr. Deepanshu Singh , Lecturer had attended a 06 days training Post Covid-19 Pandemic challenges in Higher Education online training at Himachal Pradesh. ? 02 faculty members attended a 03 weeks training on entrepreneurship & start ups among HEI's at MHRD Innovation Cell. ? He also attended a 08 weeks training program on Enhancing soft skills & personality on NPTEL online at Kanpur. ? Shri. Arun Srivastava , HOD (Electrical )attended 05 days training on Strategic planning and Universal Human Values at IIT Hyderabad .
Improvement of student learning	Visit of students to Mentor Institute and other National Level reputed Institutes ? Visit of students along with President, Student Council to NIT, Trichy on 27th August'2019. ? Student's interaction with Professors/ TEQIP Nodal Officers of NIT, Trichy on 27th August'2019. ? 08 students of B.Tech Program attended Cultural Festival at NIT, Trichy on 4.10.2019. ? Visit of Team of Students & Faculty at ISRO, Bangalore related to Students' Project. The Team also met Mr. K.Sivan, ISRO Chairman. ? 537 students attended 20 days long Skill Development Training conducted by External agency.
Academic related pedagogical initiative	Attending seminar Conference by faculty Staff and Students. • Organized 24 Hrs

Hackathon on 31st August to 1st Sep'2019 jointly with Department of Industries in which 120 students participated. • Organized campaign on Electoral Verification for students on 1st September 2019. More than 700 students participated. • Organized a workshop on ANDROID APP DEVELOPMENT on 7th September 2019. Around 120 students participated. o Organized a National level workshop on "Image Processing, Computer Vision, Deep Learning and IOT" under TEQIP from 28th January '2020 to 2nd February'2020 in the Institute. Around 20 Faculties and 37 students from various colleges have participated in it. • Organized State level workshop under RUSA on "Data Science" from 3rd Dec '2019 to 8th Dec'2019. Presentation of Fold Scope Community TERI on 8.1.2019. o Workshop/Training Organized National Level workshop on "Analysis Design of RC Buildings in Seismically Sensitive Zones - Present Future" from 8th - 12th July 2019 (5Days). • The department of mechanical Engineering organized a six (6) days workshop on ROBOTICS from 02.10.2019 to 07.10.2019 in the institute premises in association with SkyFi Labs (P) Ltd, Bengaluru. Total 72 students from different programs of the institute participated in the workshop • Organized a National level workshop on "Image Processing, Computer Vision, Deep Learning and IOT" under TEQIP from 28th January '2020 to 2nd February'2020 in the Institute. Around 20 Faculties and 37 students from various colleges have participated in it.

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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	06-Apr-2018
16. Whether institutional data submitted to AISHE:	Yes

Year of Submission	2019
Date of Submission	04-Mar-2019
<b>17. Does the Institution have Management Information System ?</b>	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>A strong Management Information system (MIS) is required for the coordination, control, analysis and visualization of information in an organization. MIS helps in analyzing the results in terms of comparing the internal marks and University marks obtained by students. It also compares results batch wise, termwise, Facultywise and take proper corrective action based on the root cause to reduce the number of subjects having less pass. As our Institute is having Environmental management system in place, our first and foremost aim is to focus on preservation of natural resources. Keeping that in view, our Institute portal is structured to reduce the use of paper work. All types of circulars, orders and notes are circulated using e-circular module. Our Institute Portal is majorly classified into three sections Staff Zone, Student Zone and General section. The major component of the staff section is Biometric attendance, ISO documents and e-question bank. The Biometric attendance module has contributed much in the consumption of papers as all staff CL application is forwarded to section heads for approval. Secondly all the updations in ISO documents is uploaded electronically for use of all department. Under Student zone, major components are Student information system (SIS), e-services, e-feedback etc. All the attendance and marks related data are entered through SIS by all concerned lecturers and thus complete MIS of students is maintained upto date. e-feedback module has contributed much in reducing usage of paper as well as helped in three levels of corrective action on serious issues raised by students. e-services have been included this year to help the students to apply for various certificates and clearance of nodues. It also monitors timely issue of certificates to students.</p>

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

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

The Institution follows the curriculum prescribed by the Pondicherry University. The Institution develops action plan for effective implementation of the curriculum prescribed by Pondicherry University. In the beginning of the academic year, the Academic Cell prepares an academic calendar & time table with the consultation of various Head of Departments (HOD) in line with University calendar. Course files are prepared by each faculty for their respective subjects, which contains Vision, Mission, Programme Educational Objective, Programme Outcome, Course Outcome, Learning outcome in Cognitive domain and in psychomotor domain, teaching tool and evaluation tools with students activity. The Course file is approved by the concerned HOD and the lesson plan from course file is uploaded in Students Information System which can be accessed by all concerned students. The unit tests are planned as per the academic calendar and are monitored by the Head of Departments (HOD). Regular feedback( open forum, e-feedback, CR review meeting, FR review meeting and main paper feedback obtained from the stakeholders, with respect to the quality of the enrichment programmes are monitored and evaluated by the Quality Assurance Committee( MR /IQAC Co-Ordinator and Principal) and necessary remedial measures are incorporated in the future. The syllabus, question papers, notes, NPTEL materials, PPTs, lab manuals and videos for each subject are provided in the library as well as in the student information system which are downloadable. Remedial Classes has been incorporated in the Academic Calendar for improving of performance by the student in Unit test and Pre-University Exam. CR and FR meetings are conducted by HOD to review the teaching learning process, academic progress of the students, grievances if any, and suitable remedial measures are taken as and when necessary. Library and every Department maintain question banks which are used by faculty and students to become familiar with the pattern of examination. Quality of the project is measured based on real-time application, innovativeness, product/process re-engineering and cost-effectiveness of the system. Project development is monitored rigorously at Department level and Project Scrutiny Committee (PSC) level. PSC is designated as a centralized committee to monitor the progress of projects of all departments at a higher level.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NIL	NIL	Nil	00	00	00

#### 1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	0	Nil
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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	Programme Specialization	Date of implementation of
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CBCS		CBCS/Elective Course System
BTech	Civil Engineering	01/01/2019
BTech	Electronics and Communication Engineering	01/01/2019
BTech	Computer Science Engineering	01/01/2019

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

	Certificate	Diploma Course
Number of Students	Nil	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
VAC-1 NSS-1 FGA-1 VAC-2 NSS-2 FGA-2 VAC-3 FGA-3 VAC-4 FGA-4 VAC-5 FGA-5 GP-1 VAC-6 FGA-6 GP-2 VAC-7 FGA-7 VAC-8 FGA-8 National workshop on Image Processing, Computer Vision, Deep Learning, Machine Learning, IOT Brainwave Robotics TFJ-1 TFJ-2 SOCH	01/01/2019	31
37 NPTEL courses	12/07/2019	50
National workshop on Image Processing, Computer Vision, Deep Learning, Machine Learning, IOT	20/07/2020	9
Brainwave Robotics	24/07/2019	73
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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
BTech	Civil Engineering	37
BTech	Computer Science Engineering	35
BTech	Electronics and Communication Engineering	34
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### 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes

Alumni	Yes
Parents	Yes

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

#### Feedback Obtained

Effective feedback is very helpful. Feedback is valuable information that is used to make important decisions. For all organizations, 'continual improvement' is the foremost requirement. Continual improvement is possible only with proper feedback system. It's a true focus based on feedback from across the entire organization covering all stakeholders. Our organization believes that feedback is helpful only when it highlights weaknesses as well as strengths. One of the efforts that are put forth in regards to customer satisfaction is to monitor it. This way, we come to know exactly where we stand with the satisfaction of our customers, and are ready to take the correct action to stay where we need to be. In our Institute, there is laid down procedure to collect feedback from all stakeholders. Feedback is taken on time bound manner from Students, Parents, Employers, Teachers, and Alumni through Google forms. Google forms are designed in such a way that all the required parameters are covered. The inputs received from such feedback helps in understanding the lacuna in curriculum, new topics/area to be added, extra facilities to be included etc which helps in further improvement in the relevant areas. Apart from the google form feedback, Students Feedback is also taken using the e-feedback module available in the Institute portal. Such feedback is taken every semester from all the enrolled students which include feedback on Academics, Library facilities, Canteen facilities. Complete transparency is maintained. There are three levels of monitoring along with corrective action. Firstly, the feedback is addressed by the concerned teacher, then checked by the concerned HoDs and finally reviewed by Principal. As part of the outcome based education, the Course exit survey and Program exit survey is completed with inputs from all the students which helps for further improvement in teaching learning process.

## 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
BTech	Electronics & Communication Engineering	32	428	29
BTech	Computer Science & Engineering	32	438	26
BTech	Civil Engineering	32	451	29

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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	Number of students enrolled in the institution	Number of fulltime teachers available in the	Number of fulltime teachers available in the	Number of teachers teaching both UG

	(UG)	(PG)	institution teaching only UG courses	institution teaching only PG courses	and PG courses
2019	348	Nil	17	Nil	17

### 2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
17	17	6	12	2	5

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

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

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

Our Institution has implemented a student mentoring system. One teacher is allotted one class and they will be mentor to all students in that particular class. This system has been introduced to establish a better and effective student-teacher relationship and guide the students in Academic matters and to give emotional support. . Students will have to go and meet their Mentor at least once in a month for guidance or as and when required, The students must feel to confide in their mentors. This is a continuous process till the end of academic career of student. The aim of student mentor-ship is to enhance teacher –student relationship, enhance student's academic performance and attendance, to minimize student's dropout ratio, monitor the student's regularity and discipline and to enable the parents to know about the performance of regularity of wards. It is the practice of mentors to meet students individually or in groups. In isolated cases parents are called for counselling and their special meeting with the principal at the suggestion of the mentor. HOD will meet all mentors of his/her department at least once in a month to review paper implementation of system. Advise mentors wherever necessary. The mentor will arrange remedial class for the weak students. The mentors give personal guidance, career guidance academic related guidance for both theory and practical subjects.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
348	15	1 : 23

### 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
24	13	11	4	1

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	NIL	Nil	NIL
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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
BTech	CSE	1 to 7 ODD Semester/2019-2020	01/08/2019	20/12/2019
BTech	CSE	2 to 8 EVEN Semester/2019-2020	02/01/2020	05/06/2020
BTech	CE	1 to 7 ODD Semester/2019-2020	01/08/2019	20/12/2019
BTech	CE	2 to 8 EVEN Semester/2019-2020	02/01/2020	05/06/2020
BTech	ECE	1 to 7 ODD Semester/2019-2020	01/08/2019	20/12/2019
BTech	ECE	2 to 8 EVEN Semester/2019-2020	02/01/2020	05/06/2020

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

- Two Unit test are conducted in each theory subject which carry 20 marks each. - The questionpapers are prepared based on Booms taxonomy mentioning CO and levels of each questions. - The thirdunit test is assessed based on the students centric activity. -Two unit test is conducted forassessment of progressive skill test. -Rubrics is used for assessment of practicals. -CO attainmentis calculated for improving the teaching learning process. - 5 marks is allotted for attendance forall theory subjects and 10 marks is allotted for attendance for all practical subjects. - classtest assignment are taken at regular internal for improving the learning process. -question papersare validated for improving the quality of question papers.

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

Academic calendar in prepared in the beginning of the session in line with university calendar. Academic calendar includes all important dates like commencement of session, date of subject registration in the intra portal - student management system, date of university registration details submission, unit test dates(U1, U2 U3), progressive skill test (P1 P2), University theory and practical exam dates. slots for remedial class after unit test is also provided. internal assessment submission date in intra portal as well as online submission to university. . Due to Covid -19 pandemic and lockdown from 3 week of March 2020, there was deviation in conduction of classes and mode and period of continuous internal evaluation. The remaining classes were completed using online mode using Google meet, teleconferencing, Google classroom, whatsapp, videos for theory and for virtual labs for covering the practical portions. The evaluation both internal and external were carried out through online mode.

### 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://dbrait.andaman.gov.in/announcement/1683.pdf>

### 2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
CSE	BTech	Computer Science Engineering	35	15	43
ECE	BTech	Electronics and Communication	34	22	65
CE	BTech	Civil Engineering	37	37	100

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### 2.7 – Student Satisfaction Survey

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

<https://dbrait.andaman.gov.in/announcement/16115.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	365	DBRAIT	17	17
Minor Projects	365	DBRAIT	84	0

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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
Professional Development Training	ECE, CSE, Civil	23/12/2019
3-D Printing and Allied Technologies	ECE	06/01/2020
Strategic Planning and Universal Human Value	ECE, CSE, Civil	26/11/2019
Data Analytics tools for Research	CSE	04/11/2019
Data Science	ECE	09/11/2019

National level workshop on Image Processing Computer Vision Deep Learning and IOT	ECE,CSE	28/01/2020
Android APP Development	CSE	07/09/2019

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
1	Andaman Incubation Centre	Andaman and Nicobar Administration	NIL	NIL	Nil
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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
ECE, CSE, Civil, Humanities	Nil

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)
National	ECE, CSE, CIVIL	Nil	Nil
No file uploaded.			

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
ECE, Civil, CSE	Nil
No file uploaded.	

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
Nil	NIL	Nil	Nil	Nil	Nil	Nil
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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
Nil	Nil	Nil	Nil	Nil	Nil	Nil
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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	Nil	6	Nil	5
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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
SWACH Group- Safe water and Clean Habitat- cleaning of wells	DBRAIT	5	10
THUNDER group: Creating awareness on Energy Conservation	DBRAIT	2	8
AUO -Attending the Unattended One's	DBRAIT	2	10
SABASH- Spreading Environment Awareness by Cleaning of Beach	DBRAIT	5	20
Blood Donation and Planting of Saplings on Foundation Day	DBRAIT and Hospital	8	60
Swatchata Pakhwada	DBRAIT	5	102
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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
Painting on women empowerment	participation certificate	Social Welfare	1
Debate-Integrity- A way of life	participation certificate	Supdt. Of Police (Anti- Corruption)	1

Maalkhana Hackathon	First, second and Third position	Andaman Nicobar Police Department	3
Painting on National Voters Day	Third position	Chief Electoral Officer	1
Essay on National Voters Day	First, second and Third position	Chief Electoral Officer	3
<a href="#">View File</a>			

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

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
SoCh	DBRAIT	SWACH , THUNDER, AUO, SABASH	14	48
Vigilance awareness Week	Andaman Police Department	Maalkhana Hackathon	5	50
National Maritime Day	DBRAIT Maritime Department	Essay	2	8
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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
Students Exchange Programme	08	TEQIP	03
Students Exchange Programme	07	TEQIP	04
Students Exchange Programme	05	TEQIP	03
<a href="#">View File</a>			

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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Industrial Exposure of satellite tracking system	Field Trip	ISRO	03/10/2019	03/10/2019	21
Industrial Exposure of	Field Trip	ISRO	03/08/2019	03/08/2019	31



satellite tracking system					
Radar	Field trip for III year ECE	NSRY	04/09/2019	04/09/2019	33
GIS Applications In Civil Engineering Projects	Training for B.Tech CIVIL III year, B.Tech ECE III year, B.Tech CSE III year	ESCI, Hyderabad	05/06/2019	05/07/2019	31
Internship	Training for B.Tech ECE	IIT Madras	01/06/2019	01/07/2019	07
Internship	Training for B.Tech CIVIL, B.Tech CSE	IIT Hyderabad	01/06/2019	01/07/2019	02
Internship	Training for B.Tech CSE	TCS Kolkata	01/06/2019	01/07/2019	04
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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
APWD	27/11/2019	Industrial visit and training	45
ALHW	30/10/2019	Industrial Visit	35
Globe Consultancy.	03/12/2019	Consultancy	40
Sciencetech Technologies	27/11/2019	Training and exposure on testing equipments	2
Electricity Department	03/12/2019	Industrial visit	5
PCS Global Kolkata	03/12/2019	training	5
IIT Kharagpur-NPTEL (Establishment of local chapter for conducting online certificate Course)	01/01/2019	Certificate Course	37
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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
29106000	29106000

##### 4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Laboratories	Existing
Seminar halls with ICT facilities	Existing
Classrooms with LCD facilities	Existing
<a href="#">View File</a>	

#### 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 partially)	Version	Year of automation
Library Management System	Partially	1.04	2008

##### 4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Reference Books	49629	1101899	416	190000	50045	1291899
e-Journals	Nil	Nil	5	2733821	5	2733821
<a href="#">View File</a>						

##### 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
NIL	NIL	Nil	Nil
No file uploaded.			

#### 4.3 – IT Infrastructure

##### 4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	120	9	1	1	0	2	3	50	0
Added	30	0	0	0	0	0	0	0	0
Total	150	9	1	1	0	2	3	50	0

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

50 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
0	Nil

#### 4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
30000000	17186075	2500000	2200178

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)

As regard to the maintenance of academic buildings, workshops, residential quarters etc are concerned, the repair and maintenance works are carried out through the APWD. Requests for repair etc are sent through the Campus Officer of the institute, who is responsible for upkeep and maintenance of the buildings /Campus. Sufficient fund is allocated to APWD to carry out the maintenance works. Electrical maintenance /repair works are carried out by the "Maintenance Cell" of Electrical Department of the institute. Computing facilities are maintained by the Computer Department. The concerned departments take care to protect sensitive instruments from mechanical and electrical damage of their labs. The institute has a centralized UPS which caters the need of computer hardware and server. Diesel Generator with a capacity of 2x250KW is installed in the institute for power backup support. Water Purifiers are placed at different location of academic building, Workshops , hostels and canteen for providing safe drinking water. Check Dams available in the campus to collect rain water to meet the water requirement of the institute. The water so collected is used for washrooms and irrigation of garden. Water purifier is also installed at the dam area for purification of water.

<https://dbrait.andaman.gov.in/announcement/16101.pdf>

### 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	10s and Batch Toppers	16	25500
Financial Support from Other Sources			
a) National	NIL	Nil	Nil
b) International	Nil	Nil	Nil

[View File](#)

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

Name of the capability	Date of implemetation	Number of students	Agencies involved
------------------------	-----------------------	--------------------	-------------------

enhancement scheme		enrolled	
GIS Applications In Civil Engineering Projects	04/07/2019	31	ESCI, Hyderabad
Bridge Course- Machine Learning With Python	02/07/2019	16	ESCI, HYDERABAD
Language Lab	15/01/2020	20	DBRAIT Faculty Member
Remedial class	25/09/2019	30	DBRAIT Faculty Member
Remedial Coaching	27/02/2020	25	DBRAIT Faculty Member
Yoga and Meditation for Hostel Girls	16/01/2019	150	Yoga Instructor
Personal Counselling and Mentoring	02/01/2019	348	DBRAIT
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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 passed in the comp. exam	Number of students placed
2019	GATE Coaching	35	Nil	1	Nil
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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
53	53	25

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
NIL	Nil	Nil	APWD and ISRO Private construction company Forest Department	79	33

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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
Nil	Nil	DBRAIT	ECE, Civil, CSE	Nil	Nil
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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	Nil
GMAT	Nil
CAT	Nil
GRE	Nil
TOFEL	Nil
Civil Services	Nil
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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
Painting on women empowerment	Degree Level	5
Debate-Integrity- A way of life	Degree Level	3
Essay Competition	Degree Level	3
Essay on Vigilance awareness	Degree Level	1
Maalkhana Hackathon	Degree Level	30
Painting and essay competition on National Voters Day	Degree Level	4
Badminton girls singles and Doubles	Degree Level	20
Badminton boys singles and Doubles	Degree Level	17
Table tennis girls singles and doubles	Degree Level	18
Table tennis boys singles	Degree Level	15
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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/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	NIL	National	Nil	Nil	Nil	NIL
2020	NIL	International	Nil	Nil	Nil	NIL
No file uploaded.						

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

The objective of student council is to give students an opportunity to develop leadership by organizing and carrying out Institute activities and programmes. In addition to planning events that contribute to the Institute spirit and community welfare, the student council is the voice of the student body. With the above objective, Student Council was formed which included representation in areas like Literary, Cultural, Sports, Discipline, Campus etc. Some general objectives include:-

- To represent the views of the students to management on matters of general concern to them
- To promote an environment conducive to educational and personal development
- To support the management, Faculty and staff in the development of the college
- To organize programmes for overall development of students and timely transfer of information to all students
- To help provide better internship opportunity to all students

The Student Council should have members on whom all students have faith. This is possible only when students are electing their representatives. This was a challenge for the management. Dean (Student affairs) formed a group of Class Representatives (2 i.e. 1 boy and 1 girl from each class). The group will give nomination for the each Category i.e for Student Secretary, Secretary (Literary), Secretary (Cultural), Secretary (Sports), Secretary (Campus), Secretary (Discipline) along with joint secretaries in each area. Our Institute had developed a microcontroller based voting machine along with Biometric module as project work in Electronics Communication department. The challenge of election was overcome using this. All the students' finger prints were registered. After completion of registration, students from each class were called one by one and the voting was completed. Thus the elections of Student Council were completed in fair and transparent manner without any objections. The student Council takes oath in front of all students and faculty in the institute Auditorium. The tenure of the Council is for a period of one year. Every year election is carried out for selection of new Council. The Student Council represents all students in the college. It is very important that students receive regular information on the plans and activities of the Student Council and that as many students as possible participate in events organized by the Council. Each member of the Council has a special responsibility and should ensure that their views are brought to the attention of the Council and that they remain fully informed of the Council's activities. Proper letter heads of Student Council were made for all important circulars and notices. Such communications were shared with students through all class representatives after approval from Dean (Students Affairs) and Principal. Dean (SA) and other committee members also have regular meetings with individual members of the Student Council. In such meetings the Council shares views of students on various academic and general facilities. In our Institute regular meetings are organized with top management and student council. Regular meetings with Council help to build better relationship between students and management. The two members of the Council are always invited in all management.

**5.4 – Alumni Engagement**

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Alumni of the Institute (erstwhile known as Dr. B.R. Ambedkar Govt. Polytechnic ) was formed in the year 2002 and was registered in the Office of Registrar vide no 1110 dated 18/12/2002. Later the institute upgraded with Degree program in B.Tech in the year 2009 and with the first batch rolling out in the year 2013 B.Tech Alumni also got added in the existing ALUMNI . Till date 121 passed out B.Tech students have added their names in the existing ALUMNI which already had 500 odd members presently working in Local, National and International organizations. Alumni Executive committee was re-constituted in the year 2016 and changed the name as BRAIT Alumni in which both B.Tech and Diploma passed out are elected as Executive members. The Alumni Activities include the following SN Activities Technical Activities 1 Organizing Guest Lecturers with Experts from Technical companies as and when they visit the islands for related work 2 Support in organizing Technical symposiums 3 Support in organizing Industrial visits for students 4 Organizing career counseling sessions as and when they visit Islands 5 Taking up joint projects involving juniors 6 Assisting the juniors through forming Google group and conveying various employment opportunities Socio- Culture Activities 7 Organizing and supporting Blood Donation Camp on special occasions 8 Organizing and supporting Tree Plantation in coordination with Forest department 9 Contributing to LG Relief fund along with institute under SoCh activity 10 8Sponsoring prizes for meritorious students The executive committee of ALUMNI meets monthly in the premises of institute for planning.

5.4.2 – No. of enrolled Alumni:

15

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

Meeting for collecting relief materials to be sent for Kerala Flood relief through Defence support - 16-08-2019

## **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)

DBRAIT believes in totally different kind of work culture. Being certified Integrated Management System, the Institute facilitates a perfect decentralization of activities and delegation of authorities, which has proven itself to be a key concept in the success achieved by the institute on different counts. The working methodology basically focuses on student. Involvement of each and everyone in the decision-making and the transparency associated therein also form the important features of the work culture. The institute functions with perfect decentralized administration as depicted below. STATE LEVEL ADVISORY COMMITTEE The state level Advisory committee for technical education of UT of A N Islands make recommendation to the Andaman Nicobar Administration after discussing issues on establishment of new institution, various intake capacity of existing Institution, introduction of new programmes in the existing Institution and extension of approval of existing Institution for the forth coming academic session. • The member of state level advisory committee is • Secretary(Tech Edn)-Chairman • Director MHRD-member • Representatives of AICTE-member • Two representative of Affiliating university-member • Representative from affiliating board-member •



Two representatives from BRAIT-member FUNCTIONS OF KEY ADMINISTRATIVE POSITIONS: The functions of various key positions are depicted in Table below.

**PRINCIPAL Powers:**

- All financial powers as per administration Order No 253 dated 29/01/2012
- Academic and administrative management of the institution
- Providing academic and administrative leadership
- Promotion of industry institution collaboration and Industry oriented Research and development
- Monitoring and evaluation of academic activities in the institutions
- Public relations and interaction with the community
- Organizing and coordinating consultancy services
- Participating in policy and system planning at state.

**Regional and National Levels for development of Technician Education Promoting and coordinating Continuing Education Activities**

**MANAGEMENT REPRESENTATIVE Duties:**

- Coordination of all activities pertaining to Integrated Management System Standard and ensuring its implementation and maintenance.
- Documentation of Quality System.
- Selection and training of Internal Quality Auditors.
- Planning and Implementation of Internal Quality Audit Schedules.
- Monitoring Corrective and Preventive Actions Relating to the Servicing process and the Quality System.
- Promoting the awareness on customer requirements throughout the organization
- Reporting the performance of the Quality System in Management Review.

**HEAD OF DEPARTMENTS Duties :**

- Providing leadership in teaching of diploma and post diploma courses.
- Organizing R D work in Industrial problems and Projects
- Departmental Administration
- Assisting in the administration of the Institution
- Publication of Technical Papers
- Curriculum Development and development of resource materials
- Innovations in technician education and evaluation
- Continuing Education Activities
- Public relations and interaction with the community
- Students Counseling and student interaction
- Perform any other assignment / duties assigned by superior.

**DEAN ( Academics) Admission of students as per procedure laid down. Coordinating with Board / University for conduct of final examination. Result analysis and declaration of results. Issue of certificates to students.**

**TRAINING AND PLACEMENT OFFICER**

- To invite prospective companies to campus for recruitment.
- To register students for the job with prescribed qualification.
- To arrange for various facilities

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
Teaching and Learning	<ol style="list-style-type: none"> <li>1. IIT/ NIT training at IIT/NIT or in parent institute (training fees, honorarium to faculty, TA/DA of students or resource person)</li> <li>2. Induction Training for 1st year lateral entry students in 2nd year - Training of faculty mentors by induction coordinators already trained lectures on Universal human values, Crash course on communication skills crash/ bridge courses on conceptual learning on mathematics and physics, expenditure on art and craft training, physical activities (own faculty with honorarium/ hired experts)</li> <li>3. Expenditure on Student Excellence and Learning Programme (SELP-art of living)</li> <li>4. GATE Orientation Programme for all students,</li> <li>5. GATE Preparation Classes</li> </ol>



from 3rd year onwards 6. GATE Registration Fee (only for final year students) 7. Career Counselling for Student appointment of counsellor(internal/external)-honorarium, TA/DA etc. 8. Employability / Psychometric/Diagnostic Test of all students 9. Honorarium for Remedial Classes for failure /academically low performing students 10. Peer Learning-incentivizing students 9. Student Visits to IIT RD organizations 10. Institutional memberships for professional societies 11. Sponsorship of 20 on academic activities in Tech Fest 12. Registration Fees and TA/DA for students participating in Tech Fest of IIT/NIT 13. Exposure visits of social backward and girls students to reputed organisations 14. Providing GATE learning materials for students preparing for GATE and not participating in training 15. Expenditure of conduct of practicals for students in other nearby institute on advance equipments

Research and Development

1. Attending Conferences/ Seminars/ Workshops for UG/PG/Ph.D students within or outside institute 2. Spares and consumables for UG/ PG student research projects 3. Seed Money for R D for faculty research projects 4. Providing seed money to students for their projects. (Incentivisation through prizes, appreciation etc.) 4. Publication in peer reviewed journals having citation impact factor and scopus index 5. Fees and facilitation charges for patent filing for faculty and students, 6. Workshops on writing collaborative research proposals 7. In house product development by students 8. Expenses for using infrastructure facilities (rent) in other organizations 9. Expense on testing/characterization of samples of RD projects undertaken by faculty/students 10. Appointment of retired teachers from IITs/NITs/other reputed institutions as Senior Research Advisor (salary/honorarium -as approved by competent authority of institution 11. Additional funding for soft activities in collaborative research scheme

Industry Interaction / Collaboration

1. Expenditure on TA/DA registration fees for Internships 2. Inviting

Industry expert for lectures 3. Placement Activities Hospitality for the companies coming for placement 4. TA/DA of students and faculty for Industry Visits, 5. Arranging HR summit for placement 6. Preparation and printing of brochure for placement 7. Expenditure on submission of collaborative research proposals to the industry 8. Conducting workshops for GD/PI, preparation of CV for placement, mock interviews 9. Conduct of Alumni meet for career guidance and placement activities 10. Arranging pool campus 11. Participation of industry experts in curriculum development through ICC. 12. TA/DA and honorarium for industry experts assisting in delivery of curriculum

**Human Resource Management**

1. Short Term Training Programmes (STTP) in house 2. Registration fee and TA/DA for STTP in other reputed institutes 3. IIT training to faculty at IIT or in parent institute 4. Attending Conferences/ Seminars / Workshops 5. Support Staff training, 6. Counselling of faculty and staff, particularity for disadvantaged sections of the society 7. Qualification up gradation of faculty and staff 8. Faculty training on NASSCOM future skills 9. Faculty training on digital pedagogy 10. Motivational talks for faculty and staff for improving efficiency and belongings 11. Faculty and staff training in industry (registration fees, TA/DA, accommodation etc.)

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

E-governance area	Details
Planning and Development	e governance initiative is done by the student through Software development for different clients of A N Nicobar Islands.
Administration	1) Biometric attendance system prepared by the Institute as a students project and is implemented in Institution for attendance entry of all staff, leave entry and approval etc. Guest Lecturer appointment letter generation available in Institute portal. 2) File tracking system - This system will help all government departments to keep track the movement of every file. Letter Diary Dispatch • Order Dispatch • Tracking the

	movement of files
Finance and Accounts	1) Biometric attendance system is linked with preparation of salary. 2) Store Management System is having finance accounts part which is used for preparation of salary statement.
Student Admission and Support	1) On line Common admission Software prepared by the Institution and implemented in admission of all Higher Education Institute in Andaman and Nicobar Islands. 2) For other all students activities right from registration in the semester, monthly attendance entry, Marks entry, Result Analysis, Defaulter list, academic calendar, NPTEL Course material, Students information system is available.
Examination	Question paper generation Software prepared by the Institute as a students project and operational from more than 7 years

### 6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	Tejinder Singh	3-D Printing and Allied Technologies	IIT Guwahati, Assam	26060
2019	Harsabardhan Barik, Chandra Sekhar Venukonda	Professional Development Training	IIM Kashipur	61450
<a href="#">View File</a>				

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Professional Development Training	Nil	23/12/2019	23/12/2019	2	Nil
2020	3-D Printing	Nil	06/01/2020	10/01/2020	1	Nil

	and Allied Technologies					
2019	Data Analytics tools for Research	Nil	04/11/2019	08/11/2019	1	Nil
2019	Data Science	Nil	09/11/2019	12/11/2019	1	Nil
Nil	Strategic Planning and Universal Human Value	Nil	26/11/2019	29/11/2019	13	Nil
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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
National Workshop on Internet of Things	6	01/02/2020	02/02/2020	2
ROBOTICS workshop	5	01/10/2019	02/10/2019	2
3-D Printing and Allied Technologies	1	06/01/2020	10/01/2020	5
Strategic Planning and Universal Human Value	13	26/11/2019	29/11/2019	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
13	18	12	15

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
College staff welfare fund ,Welfare fund2.Cooperative welfare society PSCCS3.Leave Tour Concession 4.Annual Free SeaPassage 5.Medical reim	College staff welfare fund for variousemergency needs.Welfare fund 2.Cooperativewelfare society PSCCS 3.Leave Tour Concession4.Annual	A cooperative welfare society BSSCS

bursement 6.Departmental loans 7.Staff quarter 8.College bus 9.Casual Leave 10.Half payleave 11. Child care leave for ladies 12.Summer and Winter vacation 13.Study leave 14.Insurance, Gratuity pension	Free Sea Passage 5.Medicalreimbursement 6.Departmental loans 7.Staffquarter 8.College bus 9.Casual Leave 10.Halfpay leave 11. Child care leave for ladies 12.Summer and Winter vacation 13.Study leave 14.Insurance, Gratuity pension	
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#### 6.4 – Financial Management and Resource Mobilization

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

The academic processes are audited by third party as a part of surveillance audit. The financial audit is carried out by CAG once in 2 years. The academic process of the institute is internally audited once in a year by internal trained Auditors. The time is given by Auditor to Auditee to rectify the non-conformity observed. If the nonconformity is not rectified, it remains open till it is rectified. All the audit reports of Auditors is submitted to management representative of Integrated Management System. The key issues of the internal audit are also discussed in management review meetings. Sample surveillance external audit is done by the Auditors from BVQI. No major non-conformities were observed by the Internal External Auditors. The External Financial Audit of the institute is carried out by Controller Auditor General (CAG).

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
NIL	0	Nill
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6.4.3 – Total corpus fund generated

2136901
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#### 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	Nill	Yes	Nill
Administrative	Yes	Nill	Yes	Nill

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

-The parent teacher meet is conducted every year and inputs from the parents is taken for the development of Institution. - Mentorship of teacher in association with parents for the guidance in academic activities.

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

OBE Training to Support Staff. Training of Lab equipments knowledge upgradation by sending the support staff for higher education.

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

o Presentation by students of DBRAIT on "New Education Policy" on 20th July 2019. o Presentation by Colonel Samarjith Ray , Seva Medal on the occasion of "Kargil Divas" on 25th July 2019. 350 students participated. o Conducted election of Student Council on 8th August 2019 o Organized an Interaction session with Students by Shri. Suneel Kaul, Vice President Eveready, Ltd, Kolkata on 25th August 2019. o Visit of 05 students along with President, Student Council to NIT, Trichy on 27th August'2019. o Student's interaction with Professors/ TEQIP Nodal Officers of NIT,Trichy on 27th August'2019. o Visit of Dr. Vishwa Vallabh, XLRI Jamshedpur along with NABARD to motivate the students to Entrepreneurship Development Program on 28th August'2019. o Organized 24 Hrs Hackathon on 31st August to 1st Sep'2019 jointly with Department of Industries in which 120 students participated. o Organized a workshop on ANDROID APP DEVELOPMENT on 7th September 2019. Around 120 students participated. o 08 students of B. Tech Program attended Cultural Festival at NIT, Trichy on 4.10.2019. o A workshop on ROBOTICS was organized from 1.10.2019 to 7.10.2019 with Trainers from Mainland, India. o Institution Innovation Council presented the various innovative projects taken up by students. o Civil works related to preparation of studio for Community Radio Station. o Visit of Team of Students Faculty at ISRO, Bangalore related to Students' Project. The Team also met Mr. K.Sivan, ISRO Chairman. o student software project -e waste Mgnt selected by PBMC for implementation as part of SMART CITY component. o Student Council of DBRAIT organized Cultural Fest PRAJNA from 30.1.2020 to 31.1.2020. 07 students from NIT,Trichy also participated in the event. o Organized a National level workshop on "Image Processing, Computer Vision, Deep Learning and IOT" under TEQIP from 28th January '2020 to 2nd February'2020 in the Institute. Around 20 Faculties and 37 students from various colleges have participated in it. o Institute with the support of G.B.Pant Govt Hospital, Port Blair arranged Counseling Session and medical Checkup on every Thursdays for students. o Organized State level workshop under RUSA on "Data Science" from 3rd Dec '2019 to 8th Dec'2019. o Presentation of Fold Scope Community TERI on 8.1.2019. o Workshop/Training - Organized National Level workshop on "Analysis Design of RC Buildings in Seismically Sensitive Zones - Present Future" from 8th - 12th July 2019 (5-Days). o The department of mechanical Engineering organized a six (6) days workshop on ROBOTICS from 02.10.2019 to 07.10.2019 in the institute premises in association with SkyFi Labs (P) Ltd, Bengaluru. o UV sanitization chamber for COVID -19 disinfection of usable and accessories developed by the Institution. o02 COVID-19 sample collection chamber designed and fabricated by DBRAIT for the Health Department. The chamber prevents direct contact of Medical front line staff with COVID suspected case

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	Nil

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Induction Program	22/07/2019	25/07/2019	31/07/2019	90
2019	workshop on ROBOTICS	01/10/2019	02/10/2019	04/10/2019	72

2020	National Workshop on Internet of Things	25/01/2020	01/02/2020	02/02/2020	70
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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
Celebration of kargil Diwas	26/07/2019	26/07/2019	80	120
Spic-Macay	12/06/2019	12/06/2019	24	26
Independence Day	15/08/2019	15/08/2019	122	78
Fit India campaign	29/08/2019	29/08/2019	45	55
Startup India Hackathon	31/08/2019	31/08/2019	10	30
Hindi Fortnight	14/09/2019	14/09/2019	15	10
Engineers Day	15/09/2019	15/09/2019	50	40
Vigilance Week	31/10/2019	31/10/2019	26	24
Swatchata Pakhwada	06/01/2020	06/01/2020	54	36
National Voter Day	25/01/2020	25/01/2020	75	125
Jan-Prajna Cultural Fest	31/01/2020	31/01/2020	54	56
Unity Day	31/10/2019	31/10/2019	38	62
Mother Language day	21/02/2020	21/02/2020	18	10
State level workshop on Robotics	01/10/2019	01/10/2019	25	35
SPIC MACEY	23/10/2019	23/10/2019	66	34
Womens day	08/03/2020	08/03/2020	50	5
National Workshop on Internet of Things	01/02/2020	01/02/2020	45	25

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
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Total Lighting requirements (Watts) - 150145 Percentage Lighting through LED bulbs - 24 Percentage Lighting through other sources - 75.99

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Provision for lift	Yes	200
Any other similar facility	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	18	Nil	07/01/2019	4	Vehicle repair and servicing station, 9 Extension centres are working in different Island to help the local community, Consultancy work for ANA Administration	LAN work, vehicle repair, CCTV installation, computer awareness by conducting computer short term courses, Material testing and water quality testing	25
2020	Nil	7	Nil	2	Blood Don SABASH, THUNDER	Blood Donation and Planting, SABASH-Spreading Environment Awareness by Cleaning of Beach, AUO -Attending the Unattended One's, SWACH	184



Group-Safe water and Clean Habitat-cleaning of wells, THUNDER group: Creating awareness on Energy Conservation,

[View File](#)

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

Title	Date of publication	Follow up(max 100 words)
Code of conduct for teacher	07/01/2019	code of conduct for teachers has been prepared and implemented. It includes responsibility and accountability of a teacher which has to be followed by all teacher. It also indicates rules related to the punctuality and attendance, leave and other general rules.
code of conduct for students	07/01/2019	The code of conduct for students includes all rules and policies related to students. Each student is responsible to know, observe, abide by, and adhere to the Code of Conduct, policies, rules, and regulations.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
National Maritime Day	05/04/2019	05/04/2019	10
Independence Day	15/08/2019	15/08/2019	200
Fit India campaign	29/08/2019	29/08/2019	100
Republic Day	26/01/2020	26/01/2020	210
Unity Day	31/10/2019	31/10/2019	100

[View File](#)

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

The Institution has introduced various eco-friendly practices in academic as

well as related activities to inculcate environmental friendly values in the system. The various Green practices carried out in DBRAIT include

1. Paper recycling Unit • This Project was initiated with the help of DST around 10 years ago which has been further improved by involving student as a part of their final year project. As a part of this project the students old answer scripts and record books are converted into file folders and reused in the institute. • Status- It is in working condition.
2. Effluent Treatment Plant • The waste water and the effluent generate in the campus from the residential quarters and different lab and workshop are treated and reused for horticulture workers. All the septic tanks in the campus are no longer used since the sewer lines are connected to ETP Plant. • The Project was a part of Tech Ed-III Project under World Bank in the year 2006. • Project Status -It is in working condition therefore the campus is free of Septic Tanks • Capacity -1 Lakh Liter
- 3.. Rain Water Harvesting: The Institute has constructed a Mini Bund as a part of student project and are able to store water which is helping to charge the ground water to considerable level. Three wells have been constructed which are connected to water filter and UV treatment plant. This plant generates around 40 KL of water everyday which is used for consumption by the students and staff. This plant is functional since last 10 year.
5. Use of Renewable Energy: Solar Water heating system has been installed in both Boys' and Girls' hostel. Solar photo-voltaic panels are being installed in PDME hostel campus • 2.5 KV solar roof panels have been installed in Auditorium • Roof top solar photo voltaic system has been installed and the capacity is 330 kilowatt peak. After installation of solar roof top photo voltaic system in 2018-19 energy saving from diesel power generation is approximately 73. • All lights have been replaced by LED lights.
6. Green Building Project • New Academic building is constructed as Green Building and has been Gold Rated and accredited in association with Indian green Building Council (IGBC). NRSE Division of Electricity department, AN Administration has provided renewable energy infrastructural support by installing solar roof panels • The existing academic buildings will also be converted into Green Building
7. Bio-Gas Plant A Bio-Gas plant of 1 ton capacity is almost in completion stage. The technology has been obtained from BARC and the construction work has been carried out by APWD. The project when implemented shall generate one LPG Cylinder alternate day apart from generating organic manure. Future Plans

1. Installing Roof Top Solar Panel in all existing buildings -100 KV Capacity for making all building energy efficient buildings

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

1. Title of practice Towards setting up of first ever Community Radio Station The institute is always committed towards aligning for addressing the community challenges and social responsibility. With the grant of Licensed frequency of 90.4 FM for operating the Radio station, the completion of civil works for the upcoming Community Radio Station was a major breakthrough in moving a step ahead in benefitting the community. Well structured Student Induction Program (SIP) for new entrants Induction Program "for B.Tech, Diploma (Engg Non Engg.) courses from 25th July 2019 for a duration of 3 weeks and 1 week respectively. Preparing Pre-Final/Final year students out for Finishing School courses • 90 Final year B.Tech students were given GATE Training under TEQIP • 537 students attended 20 days long Employability Skill Training conducted through M/s Ethnus under TEQIP. • 65 Btech students underwent internship programme at IITs, TCS and ESCI, Hyderabad
2. OBJECTIVE To provide a platform to the students to express their talents and connect to community through community related programmes. Preparing students to be Industry Ready
3. The Context Redefining social commitments and imparting finishing school for Industry readiness

The Practice: • The establishment of Community Radio Station is monitored through a

well defined activity plan • The internship plan is interweaved in the academic planning from the start of the semester • A highly planned Induction Programme - Objective of the Programme and Introduction to our College was presented, Registration of students followed by Workshops, Academic Cell, Department, Library and Labs visit. Hobby classes were also conducted on drawing/painting, singing, instrument playing, dance and yoga. Charge-up the Positive Energy among the Students, The Art of Living session was conducted from 8:30am to 9:30am daily. In order to motivate and bridge the Basic Science knowledge to the Engineering stream, Bridge Courses comprising Physics, Chemistry and Mathematics was conducted. Suggestions and Feedback about the Programme was collected. • Session on Universal Human Values were conducted by Mr. Manoj Kumar Gupta, FMG Noida 4. Evidence of Success: • Community Radio to be made operational in the commencing year. • 350 students were benefitted from the Student Induction Programme • Eminent Lecture on Psychology, Ms. Mariya, Student Councilor • 65 Btech students underwent Internship in MNCs. 5. Problems encountered and Resources Required: • In the absence of state of art modern industries, scope of local industry based internship is not much. • Motivating students for keeping pace with emerging trends is a big challenge.

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

<https://dbrait.andaman.gov.in/announcement/1686.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

One of the distinctive achievements was going full-fledged with the implementation of Outcome based education philosophy and going for NBA Accreditation for all B.Tech Courses. OBE is student centered instruction that focuses on measuring student performance i.e. outcomes. • Outcomes include knowledge skills and attitudes Outcomes include knowledge, skills and attitudes . • Outcome based accreditation - focus remains on evaluation of outcomes of the program, though Input and Output parameters are also important Input and Output Globalization has brought in a clear shift from education as transmission of expert knowledge to education as transmission of expert knowledge to education as building learner competencies including learning to learn and life-long learning. That means focus will have to be on understanding fundamentals very well and Understanding fundamentals very well, and learning new skills/competencies that would enable individuals to cope with the demands of the rapidly changing workplace. The process involved stating - 1. What we want our students to be able to do at the end of the program. 2. Assessing the students whether they are able to do what they are expected to do to do what they are expected to do. 3. Orienting teaching and other academic processes to facilitate students to do what they are expected to do. Achievement Successfully prepared and submitted SAR for all three B.Tech Programs. Completed NBA Accrediation Audit. The Audit findings are awaited.

Provide the weblink of the institution

<https://dbrait.andaman.gov.in/announcement/1692.pdf>

### 8.Future Plans of Actions for Next Academic Year

1. Student Centric: ? To improve 1st year result (Right First time) . Equity plan prepared and initiated. ? To improve the placement ? To encourage students to take up real life projects ? To orient the students for undertaking larger social commitments. 2. Infrastructure: ? To enhance rain water harvesting system. ? To operate Bio gas plant in Hostels. ? To launch Community Radio station with effect from May'20. 3. Faculty development: ? To fill all the vacant post of

Associate Professor and professor. ? Qualification Up-gradation for faculty member. ? Faculty Exposure and Faculty exchange program. 4. Institute Level: ? To improve NIRF ranking of the Institute. ? To improve NAAC grading point. ? To facilitate incubation centre. ? To attain Academic Autonomy.