



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		BANNARI AMMAN INSTITUTE OF TECHNOLOGY
Name of the head of the Institution		Dr PALANISAMY C
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		04295-226000
Mobile no.		9842217170
Registered Email		principal@bitsathy.ac.in
Alternate Email		stayahead@bitsathy.ac.in
Address		Sathy-Bhavani State Highway, Alathukombai P.O.
City/Town		Sathyamangalam
State/UT		Tamil Nadu
Pincode		638401

2. Institutional Status																															
Autonomous Status (Provide date of Conformant of Autonomous Status)	27-Feb-2008																														
Type of Institution	Co-education																														
Location	Rural																														
Financial Status	Self financed																														
Name of the IQAC co-ordinator/Director	Dr Ramesh Kumar T																														
Phone no/Alternate Phone no.	04295226050																														
Mobile no.	9486084456																														
Registered Email	iqac@bitsathy.ac.in																														
Alternate Email	qs@bitsathy.ac.in																														
3. Website Address																															
Web-link of the AQAR: (Previous Academic Year)	https://docs.bitsathy.ac.in/naac/pdf/aqar/AQAR2018-19.pdf																														
4. Whether Academic Calendar prepared during the year	Yes																														
if yes,whether it is uploaded in the institutional website: Weblink :	https://docs.bitsathy.ac.in/naac/aqar/2019-2020/Academic-Calendar-2019-20.pdf																														
5. Accrediation Details																															
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A</td> <td>3.11</td> <td>2009</td> <td>15-Jun-2009</td> <td>14-Jun-2014</td> </tr> <tr> <td>2</td> <td>A</td> <td>3.57</td> <td>2015</td> <td>03-Mar-2015</td> <td>02-Mar-2020</td> </tr> <tr> <td>3</td> <td>A+</td> <td>3.36</td> <td>2021</td> <td>08-Feb-2021</td> <td>07-Feb-2026</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	1	A	3.11	2009	15-Jun-2009	14-Jun-2014	2	A	3.57	2015	03-Mar-2015	02-Mar-2020	3	A+	3.36	2021	08-Feb-2021	07-Feb-2026
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2	A	3.57	2015	03-Mar-2015	02-Mar-2020																										
3	A+	3.36	2021	08-Feb-2021	07-Feb-2026																										
6. Date of Establishment of IQAC	17-Dec-2009																														
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
Introduction of THREE Specialized programs at UG level (CT, CSBS, ISE & BME)	20-Feb-2019 1	240
Extension of further Accreditation of NBA for ECE programme	23-Dec-2019 1	240
Academic Performance Indicator (API) Audit	21-Jan-2020 4	587
Academic Performance Indicator (API) Audit	18-Jul-2019 5	587
Academic Audit	07-Feb-2020 2	587
Academic Audit	16-Aug-2019 2	587
Meeting of Internal Quality Assurance Cell (IQAC)	21-Dec-2019 1	30
Meeting of Internal Quality Assurance Cell (IQAC)	06-Mar-2020 1	29
Meeting of Internal Quality Assurance Cell (IQAC)	12-Jun-2020 1	29
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8. Provide the list of Special Status conferred 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.K.Senthil	DST Inspire Internship Science Camp	DST	2019 5	800000
Mrs.M.Senthamarai	Entrepreneurship Awareness Camp (EAC)	DST	2019 365	60000
Dr.P.Muthukumar	National Conference on Recent Trends in Chemistry of Materials (NCRTCM-2019)	SERB	2019 2	75000
Dr.Sanjoy Deb	Prototype Development and Filed Trial of	TNSCST	2019 730	415000

	body heat operated wearable mini torch light for rural area			
Dr.K.Sivakumar	International conference on Advances in Material Research-2019	CSIR	2019 2	50000
Dr.K.L.Senthilkumar	Autonomous Robotic manipulator for order picking task integrated with visual servoing, impedance control schemes and ASRS	AICTE	2020 730	852000
Dr.K.Sivakumar	Application of Intelligent Optimization Techniques for Engineering Research	AICTE	2020 7	378000
Mr.N.V.Manjunath	Support to Students for Participating in Competition Abroad (SSPCA)	AICTE	2019 3	1000000
Dr.D.Saravanan and Dr.K.Saravanan	National Conference on Fashion Forecasting and Trend analysis through WGSN	AICTE	2019 5	500000
Dr.K.Premalatha	Industrial Internet of Things (IIoT)	DST	2019 5	300000
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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 :	3
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes

Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

12. Significant contributions made by IQAC during the current year(maximum five bullets)
(1) Initiated and conducted the internal and end semester examinations through online mode during the pandemic situation (2) 9 more special laboratories have been established and 75 innovative products have been developed from special laboratories (3) Establishment of 4 New UG Programmes of CT, CSBS, ISE BME were initiated. (4) Introduced Outcome based Question Paper system (5) The facility was provided to students to select the faculty member for their Individual courses

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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
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Plan of Action	Achivements/Outcomes
To improve the interaction with alumni and industry experts towards industry practices	Improvements in curriculum is carried out based on regular feedbacks from the alumni and industry experts. New one credit and value added courses are introduced to satisfy current industry needs to enhance the skillset of students
To enhance the skills and capacity of the faculty members through orientation and training programmes	To enhance the skills of the faculty members through continuous training on Revised Bloom's Taxonomy (RBT), Multidisciplinary teaching and Outcome based question paper setting
Collaborate with industries and universities to carry out research in emerging fields	13 MoUs signed with various industries 177 papers have been published under the collaborative activity Having linkages with 723 institutions / industries for internship, on the job training, project work, sharing of research facilities etc.,
Complete the construction of IT block for Computer Science Engineering and Information Technology. Completion of AC hostel accommodation for boys	Completed the construction of sunflower block and AC hostel accommodation for boys
Encouraging the students to win prizes in extra curricular activities like sports and cultural	Extra curricular activities were organised and students have won the prizes in state, national and international levels
Training for faculty members to create	Training on online tools for creation

digital content for the courses	on digital content was given to faculty members. Video lectures for 56 courses have been created and content creation for 48 courses is initiated
Pave way to enhance the knowledge and efficiency of faculty members and keep them updated	Center for faculty development (CFD) has been formed which trains and monitors faculty performance in video lecturing, CO PO attainment etc.,
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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	04-Mar-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Software Development Cell of BIT takes care of development and maintenance of CampusStack (code named CAMPS), an integrated information management system and Learning Management System (LMS) covering the following functional areas: Staff Management (Registration, Staff Attendance and Leave Management, payroll), Student Management, Curriculum Management, Academic Process Management (course registration, timetable, attendance, and internal marks, question bank, lesson plan documents), Examination Management (hall ticket, exam schedule, result processing, and grade sheets management), Library Management, Documentation Management and Analytics, Learning Management, Course material and lesson plan submission for faculty members, Course material and video lectures access for students. CampusStack Promotes Open Standards using open source technologies to build an Integrated Information Management System to provide the best experience

for faculty and students in an academic organization. Inhouse ERP (CAMPS) provides 100 automation in Information and Learning management for the entire campus. Access for the students and Faculty is enabled through web link camps.bitsathy.ac.in

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BE	101	AERONAUTICAL ENGINEERING	06/06/2019
BE	102	AGRICULTURE ENGINEERING	06/06/2019
BE	103	AUTOMOBILE ENGINEERING	06/06/2019
BE	104	CIVIL ENGINEERING	06/06/2019
BE	105	COMPUTER SCIENCE AND ENGINEERING	06/06/2019
BE	106	ELECTRONICS AND COMMUNICATION ENGINEERING	06/06/2019
BE	107	ELECTRICAL AND ELECTRONICS ENGINEERING	06/06/2019
BE	108	ELECTRONICS AND INSTRUMENTATION ENGINEERING	06/06/2019
BE	109	MECHANICAL ENGINEERING	06/06/2019
BE	110	MECHATRONICS	06/06/2019

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BE	AUTOMOBILE ENGINEERING	01/06/2019	18AU033 AUTOMOTIVE STYLING	06/06/2019
BE	CIVIL ENGINEERING	01/06/2019	18CE0YA GREEN BULDING	06/06/2019
BE	COMPUTER SCIENCE AND ENGINEERING	01/06/2019	18CS028 DIGITAL IMAGE PROCESSING	06/06/2019

ME	COMPUTER SCIENCE AND ENGINEERING	01/06/2019	18CS71 MACHINE LEARNING TECHNIQUES	06/06/2019
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	01/06/2019	15EE0XI FUNDAMENTALS OF LABVIEW	06/06/2019
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	01/06/2019	18EC0XA DATA ACQUISITION AND SIGNAL PROCESSING TECHNIQUES USING LABVIEW	06/06/2019
ME	COMMUNICATION SYSTEMS	01/06/2019	18CO73 GREEN COMMUNICATION	06/06/2019
BE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	01/06/2019	18EI022 INTERNET OF THINGS	06/06/2019
BTech	FOOD TECHNOLOGY	01/06/2019	18FDV03 PLANT PHYSIOLOGY, METABOLISM AND BIOECONOMY	06/06/2019
BTech	INFORMATION TECHNOLOGY	01/06/2019	18IT022 CLOUD MANAGEMENT SERVICES	06/06/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	FOOD TECHNOLOGY - Drying Technology	06/06/2019
BE	Biomedical Engineering - Medical Physics	06/06/2019
BTech	BIOTECHNOLOGY - Bioprocess Engineering	06/06/2019
BTech	INFORMATION TECHNOLOGY - Docker Management Services	06/06/2019
BE	MECHATRONICS - Ad-Hoc and Sensor Networks	06/06/2019
ME	VLSI DESIGN - System Verilog for Verification	06/06/2019
BE	ELECTRONICS AND COMMUNICATION ENGINEERING - Medical Image Processing	06/06/2019
BE	COMPUTER SCIENCE AND ENGINEERING - Block Chain	06/06/2019

	Technologies	
BE	CIVIL ENGINEERING - Urban Sanitation	06/06/2019
BE	AUTOMOBILE ENGINEERING - Automotive Styling	06/06/2019
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	AERONAUTICAL ENGINEERING	06/06/2019
BE	AGRICULTURE ENGINEERING	06/06/2019
BE	AUTOMOBILE ENGINEERING	06/06/2019
BE	CIVIL ENGINEERING	06/06/2019
ME	STRUCTURAL ENGINEERING	06/06/2019
BE	COMPUTER SCIENCE AND ENGINEERING	06/06/2019
ME	COMPUTER SCIENCE AND ENGINEERING	06/06/2019
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	06/06/2019
ME	APPLIED ELECTRONICS	06/06/2019
ME	POWER ELECTRONICS AND DRIVES	06/06/2019
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	06/06/2019
ME	COMMUNICATION SYSTEMS	06/06/2019
ME	VLSI DESIGN	06/06/2019
BE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	06/06/2019
ME	EMBEDDED SYSTEMS	06/06/2019
ME	INSTRUMENTATION ENGINEERING	06/06/2019
BE	MECHANICAL ENGINEERING	06/06/2019
ME	ENGINEERING DESIGN	06/06/2019
ME	CAD/CAM	06/06/2019
ME	INDUSTRIAL SAFETY ENGINEERING	06/06/2019
BE	MECHATRONICS	06/06/2019
ME	INDUSTRIAL AUTOMATION AND ROBOTICS	06/06/2019
BTech	BIOTECHNOLOGY	06/06/2019

Mtech	BIOTECHNOLOGY	06/06/2019
BTech	FOOD TECHNOLOGY	06/06/2019
BTech	FASHION TECHNOLOGY	06/06/2019
BTech	INFORMATION TECHNOLOGY	06/06/2019
ME	SOFTWARE ENGINEERING	06/06/2019
BTech	TEXTILE TECHNOLOGY	06/06/2019
MBA	MBA	06/06/2019
BE	BIOMEDICAL ENGINEERING	06/06/2019
BTech	COMPUTER SCIENCE AND BUSINESS SYSTEMS	06/06/2019
BTech	COMPUTER TECHNOLOGY	06/06/2019
BE	INFORMATION SCIENCE AND ENGINEERING	06/06/2019

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
Web Technology	12/06/2019	239
Microbial Technology	12/06/2019	104
Solid works	12/06/2019	142
Pattern Joining	12/06/2019	52
Proteus	12/06/2019	36
Sensors and Measurements	12/06/2019	86
Embedded System Design	12/06/2019	86
MS Office and Video editing	12/06/2019	163
Irrigation Technology	12/06/2019	48
Revit Architecture	12/06/2019	85
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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	AERONAUTICAL ENGINEERING	29
BE	AGRICULTURE ENGINEERING	35
BE	COMPUTER SCIENCE AND ENGINEERING	467
BE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	247
BTech	BIOTECHNOLOGY	150
BTech	FASHION TECHNOLOGY	54

BTech	INFORMATION TECHNOLOGY	122
BE	MECHATRONICS	109
BE	CIVIL ENGINEERING	147
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	229
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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
<p>Feedback is obtained from students, Teachers, Employers, Alumni, and Parents about the curriculum and courses offered in the programs and for the development of the institution. The students give feedback on the courses during the course committee meetings, Class Committee meetings, and online. The feedback collected is analysed by the Professor in charge and Head of the Department (HoD). The suggestions for the changes to be made in the courses are forwarded to the Department Advisory Board (DAB) for further process. Teachers give feedback on the courses being handled by them during the semester to the HoD and are forwarded to DAB for further action. The Board of Studies (BoS) coordinator collects the feedback related to curriculum and courses from the alumni and employers before the BoS Meeting. The feedback collected is analysed in the DAB meeting and further sent to the BoS meeting for appropriate action. The feedback from Parents is received during the Parent-Teacher meetings. We have deployed a robust feedback system in place which we consider as an extraordinary intervention in empowering the students. Students are free to give their suggestions/grievances by posting them in the ERP software with the option of anonymity. They can send it to concerned Deans and if they feel they can also send it exclusively to Chairman/Trustee directly which will be available only to Chairman/Trustee. The feedback system has made students feel that they can approach us anytime for anything without any hesitation whatsoever. If their request was found to be genuine, it was immediately conceded. Our response time is more than 75 percent of cases is less than a day. This is only to indicate the highest value we have attached and the sincerity with which we have responded to feedback of students as an intervention of empowering them. The real empowerment lies in the fact that the students had actively participated in the management process and had started contributing to the development of the institution constructively.</p>

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
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BTech	Fashion Technology	60	37	37
BE	Electronics and Instrumentation Engineering	120	86	86
BE	Electrical and Electronics Engineering	180	152	152
BE	Electronics and Communication Engineering	240	218	218
BE	Computer Science and Engineering	240	232	232
BE	Civil Engineering	60	53	53
BTech	Biotechnology	120	104	104
BE	Automobile Engineering	60	43	43
BE	Agriculture Engineering	60	48	48
BE	Aeronautical Engineering	60	46	46
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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
2019	6967	278	519	12	56

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
587	587	13	187	187	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)

Students Mentoring System In Bannari Amman Institute of Technology (BIT) is to facilitate the students to

improve their Academic, Co-curricular, and Extra-curricular activities. In BIT, every mentor will be allocated with 20 students during their first year and the same mentor will be continued till their final year. Mentors will be interacting with students frequently to ensure and monitor their work progress and academic performance. They also provide advice relating to career guidance and personal problems. The mentoring system in BIT ensures that the students adapt to the dynamic learning and working environment for their successful careers. The objective of Mentoring System • To guide and enhance students' academic performance • To identify slow learners and guide them in improving their academic performance and for advanced learners encourage them in academic, extra, and co-curricular activities. • To minimize student drop-out rates The Institute has an integrated mentoring system where the faculty acts as a link between the students and the institution. Activities of Mentors • Mentors are assigned to monitor and guide students. • Mentors maintain and update the Mentoring report which contains the details of students performance in tests, participation in events, attendance, achievements, etc., • Based on the information collected from students they will be given guidance and counseling whenever required • Mentors will have frequent interaction with parents of their mentee students and Progress of the students will be informed to the parents periodically • Mentors also keep track of the mentees performance in their academic, extra, and co-curricular activities The HoDs (Head of the Departments) and Professor In-charges of various Departments will also act as a mentor and monitor different activities of the assigned mentors and the students. Activities of HoDs/ Professor In-charges • Meet all mentors of their department once in 15 days for the review of proper implementation of the system. • Meet students once in a month or whenever necessary to discuss on their academic activities. • Reporting the activities of the mentoring system to the Head of the Institute time to time. Benefits of a Mentoring System • Improves the students confidence level and challenges them by setting higher goals and guiding them to achieve greater levels. • Individual recognition and encouragement for students achievements, Facilitate students for leadership quality by developing the interpersonal skills and helping them to succeed in competitive environments. • Students get support from mentors during the crucial stages of their academic, professional, and intellectual development.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
7245	587	1:12

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
587	587	Nil	77	190

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
2019	Dr R Balakrishnaraja	Associate Professor	Best Young Faculty Award from Novel Research Academy
2019	Dr R Balakrishnaraja	Associate Professor	Best Paper Award
2019	Dr Arun Kumar H S	Assistant Professor	Excellence in Research Award
2020	Dr R Gomathi	Associate Professor	Excellence Teaching in Higher Education
2020	Mr S Saravanan	Assistant Professor	Best Research Award
2020	R Divya Bharathi	Assistant	Best Paper Award

		Professor	
2020	Mr D Lakshmanan	Assistant Professor	Best Paper Award
2020	Dr R Harikumar	Professor	IEEE - Certificate of Recognition
2020	Ms J Poornimasre	Assistant Professor	Best Paper Award
2020	Dr R Deepa	Assistant Professor	Best Paper Award
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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	101	VIII/IV	29/09/2020	24/10/2020
BE	102	VIII/IV	29/09/2020	24/10/2020
BE	103	VIII/IV	29/09/2020	24/10/2020
BE	104	VIII/IV	29/09/2020	24/10/2020
BE	105	VIII/IV	29/09/2020	24/10/2020
BE	106	VIII/IV	29/09/2020	24/10/2020
BE	107	VIII/IV	29/09/2020	24/10/2020
BE	108	VIII/IV	29/09/2020	24/10/2020
BE	109	VIII/IV	29/09/2020	24/10/2020
BE	110	VIII/IV	29/09/2020	24/10/2020
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
35	6967	0.50

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.bitsathy.ac.in/programmes/>

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
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101	BE	Aeronautical Engineering	48	39	81.25
102	BE	Agriculture Engineering	44	44	100
103	BE	Automobile Engineering	66	60	90.91
104	BE	Civil Engineering	126	114	90.48
105	BE	Computer Science & Engineering	242	229	94.63
106	BE	Electronics & Communication Engineering	205	194	94.63
107	BE	Electrical & Electronics Engineering	115	110	95.65
108	BE	Electronics & Instrumentation Engineering	97	96	98.97
109	BE	Mechanical Engineering	272	251	92.28
110	BE	Mechatronics	108	100	92.59
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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://docs.bitsathy.ac.in/naac/aqar/2019-2020/2.7.1_SSSAnalysisGraph.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

Yes

Name of the teacher getting seed money

Dr. R. Balakrishnaraja

[View File](#)

3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Mr.Srisaran V	Research	27/09/2019	ULSAN National Institute of Science Technology
International	Dr. Rajakumar K	Postdoctoral Fellowship	31/08/2019	Ministry of Education and Science of the Russian Federation, Russia
No file uploaded.				

3.2 – Resource Mobilization for Research

3.2.1 – 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
Students Research Projects (Other than compulsory by the University)	365	TNSCST	0.08	0.08
Students Research Projects (Other than compulsory by the University)	365	TNSCST	0.08	0.08
Students Research Projects (Other than compulsory by the University)	365	TNSCST	0.08	0.08
Minor Projects	365	IEI RD	0.63	0.63
Minor Projects	14	AICTE ISTE	3	3
Major Projects	730	AICTE	8.52	8.52
Minor Projects	7	AICTE	3.78	3.78
Minor Projects	7	AICTE	3.6	3.6
Major Projects	1095	DST	40.52	40.52

Minor Projects	7	AICTE	4.08	4.08
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

0.047

3.3 – Innovation Ecosystem

3.3.1 – 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
3D Experience Platform	Aeronautical Engineering	06/01/2020
Agro Based Embedded System Design	Agriculture Engineering	18/09/2020
The Art of Writing on Research Paper	Automobile Engineering	13/06/2020
Antimicrobial Resistance: Global Threats, Concerns and Future Prospects	Biotechnology	19/09/2019
Introduction to Eco-Friendly Admixtures in Concrete	Civil Engineering	29/07/2019
Hyperspectral Remote Sensing	Computer Science Engineering	04/10/2019
IET Workshop Report on Machine Learning	Information Technology	15/09/2019
Welding Automation for Modern Manufacturing Sectors	Mechanical Engineering	14/02/2020
Additive Manufacturing	Mechatronics	31/01/2020
Advanced Business Analytics Using R Software	School of Management Studies	27/01/2020
Arduino Course in IoT Series	Electrical Electronics Engineering	08/02/2020
Non-Linear Signal Processing for Dynamic Filters	Electronics Communication Engineering	01/08/2019
Quality Regulations in Food Industries	Food Technology	04/09/2020
Fuel Tank Design	Automobile Engineering	30/05/2020
One Day Workshop Advance Material Joining and Processing Techniques	Mechanical Engineering	21/09/2019
Servo Based Kinematic Applications	Mechatronics	05/05/2020

Webinar on Artificial Intelligence for Beginners	School of Management Studies	09/11/2019
Online Webinar on Role of Engineers in Wind and Solar Power Plants	Electronics Instrumentation Engineering	30/05/2020
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3.3.2 – 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
Excellence Teaching in higher education award	Dr.R.Gomathi	DK International research foundation	28/06/2020	Teacher
Best Young Faculty Award	Mr.Balakrishn araja R	NOVEL RESEARCH ACADEMY, PUDHUCHERRY	02/09/2019	Teacher
Excellence in Research Award	Dr.Arunkumar H S	SSDAT	20/10/2019	Teacher
Research and Development	BIT	SEEE	03/06/2019	Institution
Best Practices - Clean and Smart Campus	BIT	IEEE	13/12/2019	Institution
Technical Education	BIT	ISTE	02/06/2019	Institution
AICTE CHHATRA VISHWAKARMA AWARDS	Keerthivasan G	AICTE	03/06/2019	Student
Best Student Award	Vijaya Sridhar M	ISTE	18/12/2019	Student
WORLD RECORD HOLDER	Karthick Raj Bharathi R	WIKITECHY MICROSOFT RESEARCH COMMUNITY GROUP	26/01/2020	Student
Global Student Entrepreneurs Award	Aravindhan R	EO - Entrepreneurs Organisation	01/02/2020	Student
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3.3.3 – 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
Technology Business Incubator	Ms S Karthikeyani	Department of Science Technology	Vismayaa House	Cosmetics / FMCG Products	26/10/2019
Technology Business	Mr P Shanmuga	Department of Science	EMDES Technologies	4.0 industrial	04/11/2019

Incubator	Praveen	Technology		applications to start-ups SMEs	
Technology Business Incubator	Mr. R. Kalaivani	Department of Science Technology	Product Development	Novel multimillet wafer rich in nutrients will be made for commercial application	22/11/2019
Technology Business Incubator	Mr. K. Sudheer Amarthya	Department of Science Technology	Product Development	Bio-active molecules incorporated to natural wax for target action	12/12/2019
Technology Business Incubator	Mr. M. VijayaSridhar	Department of Science Technology	Product Development	Automated Egg hatching unit for poultry farmers	12/12/2019
Technology Business Incubator	Mr M Anandakumar	Department of Science Technology	Jesuans Engineering India Pvt. (General Public)	Design Development of a Four-Wheeled Solar Powered Electric Vehicle	27/04/2020
Technology Business Incubator	Ms Santhiya Rajan	Department of Science Technology	Paraclete Image labs Pvt. Ltd	Visible tool for blind people	27/04/2019
Technology Business Incubator	Mr Vishnu Bharathi	Department of Science Technology	KAAYNAAAT	Design Development of Multi usage Backpack	28/09/2019
Technology Business Incubator	Mr K Manikandan	Department of Science Technology	Sakthi Water Solutions	Multi material water container (for post water purifier / RO usage unit)	07/10/2019
Technology Business Incubator	Mr P Kavin	Department of Science Technology	AIA Exports	Consultant and service providers for new prototype/ product design and	14/10/2019

[View File](#)**3.4 – Research Publications and Awards**

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Biotechnology	4
Civil Engineering	2
Computer Science Engineering	7
Electronics Communication Engineering	5
Electrical and Electronics Engineering	2
Information Technology	4
Mechanical Engineering	1
Physics	2
Textile Technology	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Aeronautical Engineering	6	0.8
International	Agriculture Engineering	2	3.54
International	Automobile Engineering	3	1.11
International	Biotechnology	47	1.8
International	Chemistry	15	1.9
International	Civil Engineering	7	0.64
International	Computer Science and Engineering	13	0.78
International	Electronics and Communication Engineering	11	0.79
International	Electrical and Electronics Engineering	25	0.70
International	Electronics and Instrumentation Engineering	17	0.64

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

Department	Number of Publication
Electrical and Electronics Engineering	30

Electronics and Communication Engineering	37
Computer Science Engineering	12
Civil Engineering	7
Chemistry	6
Biotechnology	6
Bio Medical	2
Automobile Engineering	6
Agriculture Engineering	3
Aeronautical Engineering	1
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3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
System and Method for Decomposing Organic and Food Waste	Published	201941006917	26/11/2019
Tooth Brush	Published	324769-001	07/02/2020
Formulation of Allium Sativum and Murraya Koenegii Based Phytosomes for Sustained release and Treatment of Breast Cancer Using Phospholipids from Milk	Published	201841001612	19/07/2019
Phospholipid Containing Fungal Extract for the Treatment of Adipogenesis	Published	201841017815	15/11/2019
Memory Storage by Electrical Pulse in Hydrogen Bonded Ferroelectric Liquid Crystal	Published	201841029514	07/02/2020
Human Activity Detection Sensor	Published	201941021487	07/06/2019
A Method for Measurement of Environmental Parameters Using IoT Sensor for Medical Applications	Published	201941020095	14/06/2019
System for Preferential Route	Published	201941033704	30/08/2019

Control of Emergency Vehicle by Controlling Traffic Lights			
Automated Machinery Construction with Quadrilateral Axis	Published	201941022129	18/10/2019
Sustainable Vehicle Tracking System for Dead Zones Using Internet of Things(IoT)	Published	201941023432	21/06/2019
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3.4.5 – 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
Recycling and reuse of solid wastes a hub for ecofriendly, ecoefficient and sustainable soil, concrete, wastewater and pavement reengineering	Onyelowe K.C., Bui Van D., Ubachukwu O., Ezugwu C., Salahudeen B., Nguyen Van M., Ikeagwuani C., Amhadi T., Sosa F., Wu W., Ta Duc T., Eberemu A., Pham Duc T., Barah O., Ikpa C., Orji F., Alaneme G., Amanamba E., Ugwuanyi H., Sai V., Kadurumba C., Se	International Journal of Biological Macromolecules	2020	10	Bannari Amman Institute of Technology	10
Hierarchical trust certificate distribution	Vinoth Kumar V., Arvind K.S., Umamaheswaran	International Journal of Low-Carbon Technology	2020	14	Bannari Amman Institute of Technology	14

using distributed CA in MANET	S., Suganya K.S.	es				
High-conductivity nanomaterials for enhancing thermal performance of latent heat thermal energy storage systems	Jegadheeswaran S., Sundaramahalingam A., Pohekar S.D.	Journal of Thermal Analysis and Calorimetry	2020	15	Bannari Amman Institute of Technology	15
Choice of Pretreatment Technology for Sustainable Production of Bioethanol from Lignocellulosic Biomass: Bottle Necks and Recommendations	Naresh Kumar M., Ravikumar R., Thenmozhi S., Ranjith Kumar M., Kirupa Shankar M.	Waste and Biomass Valorization	2020	18	Bannari Amman Institute of Technology	18
Robust secure communication protocol for smart healthcare system with FPGA implementation	Suresh Kumar V., Amin R., Vijaykumar V.R., Sekar S.R.	Future Generation Computer Systems	2020	19	Bannari Amman Institute of Technology	19
Is the commercial sector of Bangladesh sustainable? â€” Viewing via an exergetic approach	Chowdhury T., Chowdhury H., Thiruganasambandam M., Hossain S., Barua P., Ahamed J.U., Saidur R., Sait S.M.	Journal of Cleaner Production	2019	23	Bannari Amman Institute of Technology	23
A study		Journal	2019	23	Bannari	23

on exergetic efficiency vis-à-vis sustainability of industrial sector in Bangladesh	Chowdhury H., Chowdhury T., M.Thirugnanasambandam, Farhan M., Ahamed J.U., Saidur R., Sait S.M.	of Cleaner Production			Amman Institute of Technology	
Energy, exergy, sustainability, and emission analysis of industrial air compressors	Mascarenhas J.D.S., Chowdhury H., Thirugnanasambandam M., Chowdhury T., Saidur R.	Journal of Cleaner Production	2020	32	Bannari Amman Institute of Technology	32
Random forest for big data classification in the internet of things using optimal features	Lakshmanaprabu S.K., Shankar K., Ilayaraja M., Nasir A.W., Vijiayakumar V., Chilkoti N.	International Journal of Machine Learning and Cybernetics	2020	39	Bannari Amman Institute of Technology	39
Current trends and challenges in cancer management and therapy using designer nanomaterials	Navya P.N., Kaphle A., Srinivas S.P., Bhargava S.K., Rotello V.M., Daima H.K.	Nano Convergence	2019	97	Bannari Amman Institute of Technology	97

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3.4.6 – 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
Spectroscopic study of K ₃₈ above the 31.67 μ s	Rahaman R., Bisoi A., Sapkota Y., Adhikari	Physical Review C	2020	196	Nil	Bannari Amman Institute of Technology

isomer	A., Das A., Sarkar S., Sarkar M.S., Goswami A., Ray S., Basu M.R., Kanjilal D., Nag S., Selvakumar K., Madhavan N., Muralithar S., Bhowmik R.K.					
On the unsteady throttling dynamics and scaling analysis in a typical hypersonic inlet-isolator flow	Sekar K.R., Karthick S.K., Jega dheeswaran S., Kannan R.	Physics of Fluids	2020	154	4	Bannari Amman Institute of Technology
Detailed analysis of induced smectic phases and paramorphic effect of double hydrogen bonded ferroelectric liquid crystals	Subhasri P., Rajakumar K., Balamuralikrishnan S., Vijayakumar V.N.	Journal of Molecular Liquids	2020	82	1	Bannari Amman Institute of Technology
MapReduce-based storage and indexing for big health data	Gayathiri N.R., Natarajan A.M.	Concurrency Computation	2019	60	2	Bannari Amman Institute of Technology
Privacy-preserving data	Saranya K., Premalatha	Journal of Supercomputing	2020	56	Nil	Bannari Amman Institute

publishing based on sanitized probability matrix using transactional graph for improving the security in medical environment	K.					of Technology
Experimental Observation of Induced Thermoluminescence Nematic Liquid Crystals for Optoelectronic Applications	Ramya A., Vijayakumar V.N., Rajakumar K., Balasubramanian V., Balamuralikrishnan S.	Journal of the Korean Physical Society	2020	44	Nil	Bannari Amman Institute of Technology
Observation of induced luminescence and thermochromism in achiral hydrogen bonded liquid crystal complexes	Ramya A., Balasubramanian V., Jayaprakasam R., Vijayakumar V.N.	Zeitschrift für Physikalische Chemie	2020	44	Nil	Bannari Amman Institute of Technology
Optical, Thermal, and Detailed Statistical Parameter Study on Nanoparticles Dispersed into Liquid Crystalline Composites Using MATLAB Program	Mohammed Batcha M.H., Beeranahally Haruvegowda D., Neelashandra Chikbhadraiah S., Vellalapalayam Nallgounder V., Khajif F.	Brazilian Journal of Physics	2019	41	Nil	Bannari Amman Institute of Technology

Thermal and optical characterization of linear hydrogen bonded supramolecular liquid crystal mixture	Vasanthi T., Balasubramanian V., Subhasri P., Jayaprakasam R., Vijayakumar V.N.	International Journal of Innovative Technology and Exploring Engineering	2019	40	Nil	Bannari Amman Institute of Technology
Thermal and Optical Characterization of Multiple Hydrogen Bonded Liquid Crystals and Its Application in Display Devices	Sathya L., Subhasri P., Vasanthi T., Vijayakumar V.N., Jayaprakasam R., Chandra L.	Russian Journal of Physical Chemistry A	2019	32	1	Bannari Amman Institute of Technology

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	11	329	25	Nil
Presented papers	85	70	Nil	Nil
Resource persons	1	43	24	2

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Electronics and Instrumentation Engineering	Smartglu	Robert Bosch	40000
Electronics and Instrumentation Engineering	Raw cow milk testing	Robert Bosch	132000
Electronics and Instrumentation Engineering	Raw cow milk testing (Phase III)	Robert Bosch	24497
Electronics and	Antenna	Research Scholar	3794

Communication Engineering	fabrication	from Annamalai University , Hindustan, B S Abdur Rahman and CIT, Coimbatore	
Electronics and Communication Engineering	Antenna fabrication testing	Research Scholar from Annamalai University , Hindustan, B S Abdur Rahman and CIT, Coimbatore	1888
Electronics and Communication Engineering	Field Verification	Feral	177000
Electrical and Electronics Engineering	Semi Automation of Reeming machine	Sri Karuppanna Textiles	40000
Electrical and Electronics Engineering	Energy Auditing	M/S KBS Certification Services Pvt Ltd	110000
Electrical and Electronics Engineering	Testing of three phase yaw control motor	Electromotive Power Drives Pvt Ltd, Coimbatore	11800
Biotechnology	Lyophilization - Palmyra fruti liquid	Whizbang Bioresearch Ltd, Chennai	9050
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
NIL	NIL	NIL	0	0
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3.6 – Extension Activities

3.6.1 – 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
Blood donation camp	NSS	2	72
World blood donors day celebration-NSS	NSS	2	100
Sapling plantation program	NSS	2	35
NSS - BIT organized a seminar on "World Hepatitis Day"	NSS	2	50

NSS - BIT organized a blood donation camp	NSS	2	30
Cadets participated in CATC camp at PSG College of Technology	NCC	2	25
Pollution Awareness and Sustainable Development Program	NCC	2	74
The WARFARE event at Kumaraguru college of Technology	NCC	2	17
Blood donation	LEO club	2	150
World Water Day	Community Service Club	2	95
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3.6.2 – 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
National Level Competition	Perennial Assistance Award -UBA 2019-2020	UBA - Delhi	20
ELECTRIC TWO WHEELER DESIGN COMPITITION 2019	Hosting ETWDC	SAE India ISS	25
AERO DESIGN CHALLENGE	Hosting ADC	SAE India ISS	30
Honorable Receive to CUO HARINI N from Rajput	Appreciation Award	NCC	1
Streamlined Rural Development for the Welfare of the Society	Appreciation Award	NSS	10
Blood Donation	Appreciation Award	NSS	30
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Swachh Bharath	NSS	Swachh Bharath summer	2	35

		internship		
Awareness	NSS	Survey and Digital literacy	2	60
Swachh Bharath	NCC	Swachh Bharat Awareness program	2	118
Gender Issue	LEO club	Child and Women Welfare and Road Safety Awareness	2	100
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Research Collaboration	Chia W.Y., Chong Y.Y., Chew K.W., Vimali E., Jayaram M., Selvarajoo A., Muthuvelu K.S., Varalakshmi P., Show P.L., Arumugasamy S.K.	Self	365
Research Collaboration	Umapathi A., PN N., Madhyastha H., Singh M., Madhyastha R., Maruyama M., Daima H.K.	Self	365
Research Collaboration	Janani B., Alarjani K.M., Raju L.L., Thomas A.M., Das A., Khan S.S.	Self	365
Research Collaboration	Siddiqi S.A., Rahman S., Khan M.M., Rafiq S., Inayat A., Khurram M.S., Seerangurayar T., Jamil F.	Self	365
Research Collaboration	Ravikumar K., Agilan S., Raja M., Marnadu R., Alshahrani T., Shkir M., Balaji M., Ganesh R.	Self	365
Research Collaboration	Muthumari S., Gomathi V., Srimathi R., Eswaran K., Kamatchi Kannan V.	Self	365
Research	Narayanan V.,	Self	365

Collaboration	Mani M.K., Thambusamy S.		
Research Collaboration	Kokilavani S., Syed A., Raju L.L., Marraiki N., Al- Rashed S., Elgorban A.M., Thomas A.M., Khan S.S.	Self	365
Research Collaboration	Prabhakar S.K., Rajaguru H.	Self	365
Research Collaboration	Ramya A., Vijayakumar V.N., Rajakumar K., Balasubramanian V., Balamuralikrishnan S.	Self	365
View File			

3.7.2 – 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
Design and fabrication of on plastic extruder	Internship	ZEENATH INDUSTRIES	29/10/2019	05/11/2019	Humera.S
Industry Project	Internship	GEE TECH PIPES	29/10/2019	02/11/2019	T.Dinesh kumar
Learn about the processing of Tapioca	Internship	SRI SANTHI SAGO FACTORY	03/06/2019	11/06/2019	T.Dinesh kumar
Technology about irrigation automation	Internship	AQUASUB ENGINEERING	04/07/2019	08/07/2019	K.Ajaypras sath
Learning technology of cultivation practices	Internship	Agriculture department, West Arani Block, Thriuvannamalai district	03/06/2019	07/06/2019	V.Lokesh
Industry Project	Internship	Bilss Aerospace components pvt Ltd	23/11/2019	23/12/2019	Dinesh K

Industry Project	Internship	Future genrali	01/03/2019	31/05/2019	Dhayanandh R
Industry Project	Internship	Kaashiv InfoTech	30/05/2019	13/06/2019	SANJANA L
Industry Project	Internship	APEX HI-TECH INSTITUTE, BANGALORE	01/07/2019	05/07/2019	SHARAN PRANAV B
Industry Project	Internship	ALPHA TOCOL ENGINEERING SERVICES PVT LTD	10/06/2019	20/06/2019	SATHISHKUMAR S
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3.7.3 – MoUs signed with institutions of national, international importance, other institutions, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Softinway Turbomachinery Pvt Ltd	12/03/2020	Short term training, Internship and Placement	12
Kerala agricultural university, Thrissur	19/07/2019	Short term training or project work of doctoral students	12
CADD Centre Training Services	14/10/2019	Short term training, Internship and Placement	12
TIDF - MACBRO Technology Pvt Ltd	14/02/2020	Short term training, Internship and Placement	12
ACC Cements, Coimbatore	03/06/2019	2 Days workshop on effective construction practice	44
Prayojana Construction Management Training Institute	27/06/2019	Short term training, Internship and Placement	125
INTEG CIRCUIT TECHNOLOGY, BANGALORE	31/10/2019	Provide Training to Students, Faculty, Industry Institution Interaction, Six months Training Course for Students, Guest Lecturers, One	12

		Credit Courses.	
M/s Mangla Smart Energy Solutions Private Limited, Tirupur	26/08/2019	Short term training, Internship and Placement	32
Calzone Calibration Centre	29/07/2019	Impart training to students and faculty members	10
CADD Technologies School of Design Private Limited, Coimbatore	09/01/2020	Student Training, FDP, Industry based design project, Student design contests	50
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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
3653.18	4285.2

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Existing
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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 partially)	Version	Year of automation
CAMPS - in-house ERP software	Fully	in-house	2013

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total
----------------------	----------	-------------	-------

Text Books	91490	370	934	6	92424	376
Reference Books	2111	98	51	Nill	2162	98
e-Books	145	10	Nill	Nill	145	10
Journals	387	17	Nill	17	387	34
e-Journals	6000	76	Nill	55	6000	131
Digital Database	2	22	Nill	Nill	2	22
CD & Video	8285	Nill	199	Nill	8484	Nill
Library Automation	Nill	Nill	Nill	2	Nill	2
Weeding (hard & soft)	Nill	Nill	Nill	Nill	Nill	Nill
Others(s pecify)	418	Nill	Nill	Nill	418	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
Ms S Manonmani	15BT504-Immunology	Institutional - Learning Management System	09/11/2019
Mr M Kirupasankar	18BT302-Process Calculation Unit operations	Institutional - Learning Management System	09/11/2019
Ms K Vidhya	18BT306 -Microbiology	Institutional - Learning Management System	09/11/2019
Mr V Jeevanantham	15CE503-Soil Mechanics	Institutional - Learning Management System	09/11/2019
Mr P Vadivelu	15AE501-Gasdynamics	Institutional - Learning Management System	09/11/2019
Mr K Rajasekar	18AE302-Principles of Flight	Institutional - Learning Management System	09/11/2019
Ms K N Vidya	15AG504-Hydrology	Institutional - Learning Management System	09/11/2019
Mr S Santhoshkumar	15AU306-Mechanics of Machines	Institutional - Learning Management	09/11/2019

		System	
Dr M Bharathiraja	18AU302-Engineering Thermodynamics	Institutional - Learning Management System	09/11/2019
Dr R Balakrishnaraja	15BT502-Bio Process Principles	Institutional - Learning Management System	09/11/2019
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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/GBPS)	Others
Existing	3255	44	3255	2	44	1	20	1	0
Added	0	0	0	0	0	0	0	0	0
Total	3255	44	3255	2	44	1	20	1	0

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

1000 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
Recording Room, AG AC 130 Panasonic Camcorder, AG AC 120 Panasonic Camcorder, HCV785 Panasonic Handy Camcorder, Sennheiser Wireless Mic Transmitter Receiver, Adobe Premier Pro - Video Editor, Dell i7 Systems, Studio LED Light, Green Matt Backdrop S	https://docs.bitsathy.ac.in/naac/agar/2019-2020/Facility MediaCentreandRecording.mp4

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
1375.44	1188.61	1377.33	1217.31

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)

1. Budgetary Provision: Institute makes budgetary provision under different funds for maintaining and utilizing the campus infrastructure facilities. The details of budget allocation for maintenance and repairing of physical, academic and support facilities during the last five years are mentioned in 4.4.1. 2. Laboratory: All Laboratories are maintained as per 5S Workplace Management System and monitored by Department 5S coordinators. 3. Library: The overall monitoring of the Library is governed by a Library Committee consisting of the Principal, Professor In-charge of Library and Department Level

Coordinators and Librarian. 4. Sports Complex: The Physical Director supervises the Groundsman and staff assigned for ground, courts, an indoor stadium for maintenance and repair works. 5. Computer System and IT: Optimum working condition of all Software / Hardware on the campus is ensured through Test and Repair Centre (TRC). Through CAMPS (in-house ERP software) maintenance associated queries and problems are effectively solved by Software Development Cell (SDC). Network Maintenance Cell (NMC) will take care of all kinds of Network related maintenance effectively. 6. Class Room: Adequate in-house staff is employed to maintain hygiene, cleanliness and infrastructure on the campus. Classrooms, Staffrooms, Seminar halls are cleaned and maintained regularly by maintenance personnel. 7. Vehicle Transport: Drivers duty itinerary and transport scheduling is carried out by the Administrative officer as per the transport policy of the Institute. Transport fitness certification, maintenance and augmentation of vehicles are done on yearly basis. 8. Campus Maintenance: Campus Maintenance Department shall coordinate the maintenance activities of the Institute. 9. Building and Construction: Any building-related request like building construction, modification/maintenance is passed to the Principal for the approval is accorded by the Governing Council. 10. Electrical Maintenance: Electrical Maintenance receives complaints through CAMPS, an ERP software, Maintenance portal, through class committee reports and letters and tracked for its closure. Monitoring and inspection of all electrical works are carried out by the Electrical maintenance team in a periodical manner. 11. Power generation (DG, Solar, and Biogas): Institute has a 1.3 MW solar power generation capacity. The solar panel with cleaned water for 2 weeks once. 12. Bio Gas: On the Institute campus the biogas is produced by human waste around 300 cubic meters per day and regularly monitored and maintained by the maintenance dept. 13. Sewage Treatment Plant (STP): The new STP plant of 20 lakh litres capacity investment of 250 Lakhs, with advanced technology, is under construction. 14. Rain Water Harvesting: In Institute campus has three ponds with different locations with 3crores litres of storing capacity. 15. Hostel - Solar water heater maintenance: The solar water heater panels are cleaned with water for 2 weeks once. The functioning of the electrical heater in the solar water heater will be maintained for 6 months once. 16. Hazard Analysis and Critical Control Point (HACCP): Facilities related to HACCP are available in the Institute to tackle potential hazards at specific points (for example, Learning Centre with Fire Hydrants, Sprinklers, and Smoke detectors).

<http://www.bitsathy.ac.in/>

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	SVB Management Scholarship and Friend of Friendless Scholarship	192	5645000
Financial Support from Other Sources			
a) National	Government Scholarships	2716	23400065
b) International	Nil	Nil	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
Remedial Coaching	15/10/2020	10	Department of EEE, BIT sathy
Soft skill training for Vuram Shortlisted students	20/05/2020	30	Department of Training and Placement, Bannari Amman Institute of Technology
Hanumabalam-2020	26/02/2020	350	Center for yoga, Bannari Amman Institute of technology
Yoga Trip -Vethathri Maharishi Birthday Celebration in Aliyar-2019	14/08/2019	50	Center for yoga, Bannari Amman Institute of technology
Yoga Foundation Course	14/06/2019	804	Center for yoga, Bannari Amman Institute of technology
Communicative English I	24/09/2019	530	Department of Humanities, Bannari Amman Institute of Technology
Communicative English II	10/01/2020	570	Department of Humanities, Bannari Amman Institute of Technology
Advanced English Class	03/09/2019	530	Department of Humanities, Bannari Amman Institute of Technology
Personal counselling and Mentoring	01/06/2019	7245	BIT, Sathyamangalam
Summer Online Placement Training and Assessment	04/05/2020	1294	Department of Training and Placement, Bannari Amman Institute of Technology
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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	Number of benefited students by career	Number of students who have passed in the comp. exam	Number of students placed

		examination	counseling activities		
2019	Preparation for GATE examinations 2021	15	Nil	9	Nil
2019	TCS Specific Training - Aptitude, Verbal Technical	Nil	900	391	391
2019	C ,C++ Programming	Nil	1015	Nil	450
2020	Java Programming	Nil	370	Nil	110
2020	Problem Solving Level 1 - Technical	Nil	620	Nil	50
2020	Problem Solving Level 2 - Technical	Nil	180	Nil	60
2020	Advanced Aptitude	Nil	600	Nil	78
2020	Finishing School Programme	Nil	1500	Nil	180
2019	GRE seminar presentation	37	Nil	1	Nil
2019	GATE seminar presentation	22	Nil	13	Nil

[View File](#)

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

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

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
61	16583	919	150	2163	390

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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
2019	1	B.E	Agricultural Engineering	The Gandhigram Rural Institute (Deemed to be University)	M.Tech.Renewable energy
2019	1	B.E	Agricultural Engineering	University Departments of Anna University, Chennai,	M.Tech.Solar Energy
2019	1	B.E	Agricultural Engineering	Kongu Engineering College	M.Tech.Food Technology
2019	1	B.Tech	Biotechnology	VIT Vellore	M.tech Bio Technology
2019	5	B.E	Computer Science and Engineering	Bannari Amman Institute of Technology	M.E.
2019	1	B.E	Computer Science and Engineering	Christ University	MBA
2019	1	B.E	Computer Science and Engineering	Thiagarajar School of Management	MBA
2019	1	B.E	Mechatronics	PSG College of Technology	M.E Automotive Engineering
2019	2	B.Tech	Biotechnology	Kumuraguru College of Technology	M.tech Bio Technology
2019	1	B.Tech	Biotechnology	BIM, Trichy	MBA

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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
NET	2
GATE	3
GMAT	1

CAT	1
GRE	1
Any Other	22
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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
Anna University Zone - 12 Inter Collegiate Men Women Athletic Meet	Zonal	157
Mini Marathon for all students and faculty	Institutional	658
Anna University, Chennai Inter Zonal Men Tennis Tournament.	Zonal	124
Anna University Zone - 12 Inter Collegiate Men Hockey Tournament	Zonal	427
Sathy zonal school level Athletic meet (Boys Girls), Ball Badminton (Boys Girls), Carrom (Boys Girls), Football (Boys Girls), Handball (Boys), Kabaddi (Boys Girls), Volleyball (Boys Girls), Table Tennis and Badminton (Boys) tournaments	Zonal	257
BIT ALUMNI TROPHY 2019 [Ball Badminton (Men Women), Hockey (Men), Volleyball (Men)]	Inter college	225
Fresher's Meet 2019	Institutional	425
Selection Trial for College Teams	Institution	450
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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	THIRD PLACE-Cosmo clench	National	Nil	1	171MC168	Navinkumar V R
2019	SECOND PLACE IN NATIONAL MATHEMATICS	National	Nil	1	181EC280	Swetha Sridevi N

	CELEBRATION					
2019	SECOND PLACE INGYAN MITRA'20	National	Nill	1	191MC178	Surandar V S
Nill	SECOND PLACE INFABRIC PAINTING TEXPLOSION & FESTIDO' 20	National	Nill	1	182TX105	Chandresh .V
Nill	SECOND PLACE INCULTURAL-SINGING GENESIS 2020	National	Nill	1	161ME315,171EE219,161CE164	Vidhyaa Prakash S Shibangshu Roy Praveen B Swarneswaran S
Nill	FIRST PLACE IN FESTIDO' 20 - DRAPING	National	Nill	3	182TX124,182TX146,182TX113	Mohana Prasath T Swetha Reddy L Harihara Sudhan.G
Nill	FIRST PLACE IN FABRIC PAINTING	National	Nill	1	182TX112	Gunasekara pandian N
Nill	FIRST PLACE IN ORQUESTA YUKTI	National	Nill	1	192BT181,161ME315,171EE219,1	Sivabalan S K Praveen B Shibangshu Roy
Nill	FIRST PLACE IN YUKTI	National	Nill	1	191EC290	Sudharsan S
Nill	FIRST PLACE IN Fashion photography	National	Nill	1	162FT104	Akash S
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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: The student councils are constituted as department associations in the institution. Each Department's Association is led by students as a secretary with a group of office bearers as specified in the institution guidelines. The student associations plans and coordinates events like Guest lectures, workshops, technical symposiums, technical events, placement, and training programs as per the suggestions received from the students and faculty from time to time. The association secretary will be

liaising with persons from Industry, Alumni, and other stakeholders for the conduct of events. This liaison will explore the opportunities for industry visits, in-plant training, student placement, offering one-credit courses, the establishment of MoUs, etc., for the upliftment of student

department/institution. Academic Committees: The students are involved in academic governance through mechanisms like Course Committee, class committee, Board of studies, Academic Council, and Institution Innovation Committee. In these committee meetings, the suggestions for the enrichment of academic activities offered by the students are considered and appropriate action will be taken by the Principal/Deans/HoDs. Administrative Committees: The students are also involved in administrative committees like IQAC, Library committee, TBI alumni, Office Bearers of Student Clubs, Hostel Committee, and Mess committee wherein the students give their suggestions and feedback on day-to-day activities. The Anti-ragging committee members help the coordinator to create awareness among the students about the consequences of ragging and to curb ragging. The Internal Complaints Committee handles the gender-related complaints with the involvement of students. The institution keeps the students updated about the provisions for the students from reserved category through SC-ST Cell. In addition to the above, each department has student placement coordinators to work with the placement team of the institution and support them in placement activities.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Alumni Association was registered as "ALUMNI ASSOCIATION - BANNARI AMMAN INSTITUTE OF TECHNOLOGY, SATHYAMANGALAM" under the Tamil Nadu Societies Registration Act, 1975 (Tamil Nadu Act 27 of 1975) on 11th May 2015 at the Registrar Office, Gobichettipalayam with 23 Executive Committee Members. In order to strengthen the Alumni network, the Association has decided to start its Chapters in various cities nationally and internationally with office bearers and Executive Committee members to drive the Chapter. The following Alumni Chapters were formed and inaugurated. Chapters in India 1. BIT Parent Chapter - Sathyamangalam 2. Mumbai Chapter 3. Hyderabad Chapter 4. Bangalore Chapter 5. Chennai Chapter 6. Coimbatore Chapter 7. Salem Chapter 8. Karur Chapter 9. Trichy Chapter 10. Madurai Chapter 11. Tirupur Chapter 12. Tirunelveli Chapter Chapters in Abroad 1. UK Chapter - London, UK 2. Germany Chapter - Frankfurt, Germany 3. Singapore Chapter For the development of the chapter in all dimensions, funds have been transferred to all the Chapters Conducting Chapter Inauguration, Alumni Conclave, Alumni Get-together, Office Bearers meet, and other activities which are beneficial for the students' community. The Parent Chapter also conducts Executive Committee meetings (yearly twice) to review the progress of the Chapters and Annual General Body meetings (yearly once) for renewal of the association. The Association has a separate alumni website and Google Group for sharing College News Letters, Magazines, and Job opportunities posted by Alumni members, Alumni Events, and other events at BIT. In addition, the association also updates the Alumni member details/Database for all the batches periodically to know the current status of the alumni members. The association has given an opportunity for its members to exhibit their products in the name "Products of BIT" during the Alumni Conclave in order to expand their Business. As per the request made by the members of Alumni, the association has initiated the steps to prepare the Newsletter in the name of "Alumni News". The same is being prepared and circulated twice a year to all the members of alumni and executive committee members of the alumni association. The association is issuing an Alumni ID card to the members of the Alumni. As an alumnus of BIT, the members can use this card to get access to the institute library and enjoy the privileges offered by

BIT. Alumni members extend their support to the Institution through (i) permitting the students to visit their industry (entrepreneurs) (ii) offering the Internships to our students (iii) placement (iv) curriculum development (Member in Boards of Studies) (v) training the students for placement (vi) Alumni of the respective departments regularly visit the institution for interaction with the students regarding placements and Higher studies abroad and (vii) delivering the Guest lectures, seminars, One credit courses on the current topics to bridge the gap between Industry and Institute. The association also extends its support through scholarships to the financially deprived students for their study and medical expenses for the members of alumni who are below the poverty line

5.4.2 – No. of registered Alumni:

22195

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

2059123

5.4.4 – Meetings/activities organized by Alumni Association :

5

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)

1. The mentoring system is followed for I, II, and III-year students. The concept of Students Special Interest Group (SSIG) has been initiated among the students. Accordingly, students can form SSIG among their interdisciplinary friends of the same batch (Year) with a maximum of 5 and a minimum of 4 members per team. At present, the number of SSIG students can be a part of is limited to one. Each SSIG team should be guided by a faculty mentor and the mentor selection for SSIG team should be done by the students based on their choice. The achievements of students under the SSIG are published as Mentor News Bulletin, every month. 2. Dr S Jegadheeswaran, Head Academics and Research proposed to purchase Turnitin software licenses to enable researchers check their plagiarism without having to pay additional amount. Turnitin is used to provide students with an interactive means of understanding and applying citation and referencing techniques in their work, and provide online grading to academic staff.

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
Industry Interaction / Collaboration	Industries are involved in curriculum design, committees like Board of Studies, Academic Council, supporting to set up laboratories, delivering guest lectures on recent topics, offering student projects and internships. Faculty members regularly communicate with industry persons to

collaborate in each of the activities mentioned.

Human Resource Management

Institute has definite policies for Human Resource Management. Institute has a Team that takes care of the recruitments, payrolls, appraisals and all HR related issues. In case of recruitment, the interview Panel board comprises of the Principal, Deans, HoDs, Senior Professors and External experts. Screening of applicants is as per norms, agreed, is online before calling for interviews. Recruitment notifications were advertised in national daily newspapers are published. In case of Lab staff, direct recruitment from the market is also encouraged. Self-appraisal of the faculty through Academic Performance Indicators (API). Maintenance of Grievance Redressal Cell, Anti-Ragging Committee, Sexual Harassment Committee. Appointment of full time doctors for facilitating medical assistance of the teaching, non-teaching staff and students. Encourage the faculty members to participate in Refresher, Orientation courses, FDPs, Conferences, Workshops, etc. with financial assistance. Arrangement of required training programmes related to their department for Non-teaching staff by the concern HoDs. Interest free financial loans are being provided to staffs who are in need and the amount will be debited from their salary in instalment basis.

Library, ICT and Physical Infrastructure / Instrumentation

A centrally air-conditioned, five-storeyed new Learning Centre is built in an area of 8240 sq.m (88662 Sq.ft.) on par with international standards with a view to cater to the prerequisites of pedagogy in an exemplary manner. The fully automated Learning Centre provides an ambiance conducive for the teaching and learning process with the support of 94586 volumes of text and reference books with an RFID-based Library Management System. Subscription of 6000 e-journals (IEL, Scopus, Science Direct, Springer, ASCE, ASME, Access Engineering, J-GATE, ProQuest) is made. RFID-enabled security system facilitates self-issue for lending of books/return kiosks. OPAC enables the user to track the location of books. Common Reading Hall,

Conference Halls, and Discussion Rooms with Plug-in-play for laptop internet connectivity (Wi-Fi) are available. Printing and reprography facilities are available for users. Lift, ramp and hand-rails are provided to differently-abled students and staff.

Research and Development

Special Interest Groups (SIGs) are formed with group of faculty members of same domain across departments. The target of SIGs is paper publication, submission of funding proposals, consultancy activities, patent application, student projects, organizing research events, etc. Turnitin licenses are obtained to enhance the research work of faculty and students.

Examination and Evaluation

Revision of examination system is done with the inclusion of questions related to higher order thinking skills and on-line tests. Question papers are scrutinized at two levels to ensure quality. In Evaluation, Exam wrapper is introduced where the students are given with their answer scripts after evaluation to introspect and analyse each answer as to why they could not secure full marks. They are also expected to keep a log of their mistakes. Efficiency and effectiveness of evaluation process is improved with ICT facilities. Audit is conducted every semester to ensure the quality of examination and evaluation process.

Teaching and Learning

Structured-orientation programmes for the learner group, bridge courses, remedial classes, Layer-learning / learning by doing and add-on courses are provided to the students. Lesson plans and video lectures are prepared and shared with students through cloud system. Classroom teaching is supplemented through expert lectures, workshops, mini-projects, field work, internship, hands-on training, self-study electives and e-courseware. System for counselling and healthcare is available in the institution. Also, a unique learning process for leadership, research and to know about the teaching, research methodologies and skill development methods is available. Academic calendar and academic audit ensures the quality of teaching-learning.

Curriculum Development	<p>The Regulations, curriculum and syllabi are revised for all UG and PG programmes offered in the institution in 2018. The various enhancement measures adopted are:</p> <ul style="list-style-type: none"> • Courses with lab component • Interdisciplinary courses in terms of open electives • Waiver of one elective on completion of 3 one-credit courses • Fast track option • Credits for in-plant training/internships • Credits for online courses • Skill training and development in laboratories • Product development through projects • Life skill courses • Technical seminar courses • Value-added courses and Add-on courses • Add/Drop facility in existing courses
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6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
Planning and Development	<p>The e-governance system assists the members of faculty in planning their activities pertaining to institute development including department development plan, special interest group and various clubs</p>
Administration	<p>The entire BIT campus administration that involves students and staff is supported by the CampusStack governance System. Student leave management, staff leave management, payroll management and profile management have been included in the e-governance administration.</p>
Finance and Accounts	<p>Comprehensive accounting software including ledger management module, cost center management module, journal transaction management and Bills Payable module is implemented.</p>
Student Admission and Support	<p>The indigenously developed CampusStack e-governance system implemented in BIT to constructively engage students right from their admission to graduation in all aspects including student registration, student admission, student profile management, student grievances management, student online fee payment, online library transactions, student document management and exam results</p>
Examination	<p>The entire academic process including course registration, lecture plans, time table generation, student attendance management, mark entry,</p>

internal mark generation, semester exam hall ticket, semester exam mark entry, moderation process and results publishing is supported by CampusStack e-governance system. Implementation of e-governance system greatly enhanced the transparency at all levels.

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	Dr.K.Sadasivam	Management conclave ,CII,Chennai	CII	11600
2019	Dr Ramesh C	Faculty Life membership for The Indian Society for Technical Education (ISTE), New Delhi	ISTE	3540
2019	Mr.Baranidharan V, Mr.Sathish Kumar	Designof Millimeter wave and Microwave filters	IIT Kharagpur	8500
2019	Dr.Karu Raghupathy, Mr.Sudhir Kumar .V	BOSCH JCC TRAINING PROGRAM ,Bangalore	BOSCH	8073
2019	Dr.K.Selvakumar, Dr. D. Sasikala, Dr.V. R.Vinothini, Dr.Reshmi Deb Choudary Das, Mr.N.Shankar, v	FDP on Computer Science and Business System, at ISI Institute,Kolkata by TCS, Kolkata	TCS	158000

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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges 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	Aircraft operation	Nil	05/08/2019	05/08/2019	45	Nil

	challenges					
2019	Nil	One Day Training Programme on Lab Safety Awareness3	17/09/2019	17/09/2019	Nil	3
2019	Nil	Faculty Development Program on Calibration of Measuring Instruments	14/06/2019	15/06/2019	Nil	20
2019	2 Day Training programme on Fire Safety	2 Day Training programme on Fire Safety	11/12/2019	12/12/2019	201	106
2020	Ice protection, rain removal and water and waste system of Airbus 320	Nil	09/04/2020	Nil	32	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
R PROGRAMMING	4	26/04/2020	02/05/2020	7
ONLINE FACULTY DEVELOPMENT PROGRAMME ON UNDERSTANDING DATA ANALYTICS WITH REAL-LIFE CASES	1	28/05/2020	30/05/2020	3
AICTE Sponsored Two Week FDP on Design for Manufacturing, Assembly, Environment for Product Innovation	3	25/11/2019	07/12/2019	15

AICTE sponsored FDP on Artificial Intelligence Techniques in Data Analytics and Information Retrieval Techniques	9	03/06/2019	16/06/2019	15
7 Days FDP on Mathematical Modelling in Multidisciplinary Domain	9	01/06/2019	07/06/2019	7
View File				

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	77	Nil	57

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • Registration Fee, TA/DA for attending conferences • Incentives for Funded Projects 2.5 of the amount sanctioned from management • 60/70 of revenue sharing in consultancy projects • TA/DA for presenting projects for funding • Long Service Allowance(LSA) for faculty working for more than 10 years • Reimbursement of NPTEL exam fees for faculty who successfully certify • Transport facilities to visit industries for consultancy assignments • 100 percent filing charges for IPR • Sponsorship for pursuing Ph.D. (Three year fees is sponsored by the management for part-time Ph.D. scholars) • Contribution for Public Provident Fund/Employees Provident Fund • Maternity leave scheme for female faculty 	<ul style="list-style-type: none"> • Admission to the wards of the faculty in the Schools (State Board CBSE) • Admission to the wards of the faculty in the College • Soft loan (without interest) to needy staff • Day-care Centre for the wards of faculty • Contribution for Employees Provident Fund • Long Service Allowance (LSA) for faculty working for more than 10 years • Maternity leave scheme for female faculty • Group Insurance • Rent-free fully furnished quarters for staff • Ambulance Facility • Festival advance for needy staff 	<ul style="list-style-type: none"> • Wi-fi Facility in hostel • Gym separately for girls and boys • Registration Fee, TA/DA for attending conferences

Group Insurance •
 Gratuity Scheme •
 Admission to the wards of
 the faculty in the
 Schools (State Board and
 CBSE) • Admission to the
 wards of the faculty in
 the College • Rent-free
 fully furnished quarters
 for Faculty • Soft loan
 (without interest) to
 needy faculty • Day-care
 Centre for the wards of
 faculty • Ambulance
 Facility

6.4 – Financial Management and Resource Mobilization

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

BIT has qualified Chartered Accountants (internal auditors) to supervise the internal audits and to ensure that all the procedures and guidelines set by the management are strictly adhered to in the transactions. The chartered accountants also ensure that the recordings of transactions are carried out as per the purchase procedures and approval of purchases by the competent authority. Chartered Accountants carry out the procedural transaction and compliance audit and submit their reports to the management team with their comments, observations and informing the corrective measures that need to be taken, to ensure proper compliance as per their observations. Internal audit and External audit are conducted twice and once in a year respectively. The External and Internal Auditors' reports are reviewed by management and forwarded to the respective internal auditors to bring-in desired improvements in the areas highlighted by them. BIT ensures that proper checks and balances are in place with respect to financial aspects and also ensures that the transactions are recorded in books with proper approvals.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Management	10087456	Support for Event Participation / Organized / Registration, Special Lab development, industrial visit etc.,
View File		

6.4.3 – Total corpus fund generated

799000.00

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	Academic Institutions	Yes	Dean Academics

Administrative	No	Nil	Yes	Dean Planning Development and Student Affairs
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6.5.2 – Activities and support from the Parent – Teacher Association (at least three)

Parent-Teacher meeting is being conducted by individual departments at least once in a year (1) Parents are invited to give their feedback and suggestions during visits to the NBA, NAAC, IET, and other committees, (2) Mentors communicate with the parents periodically and collect feedback on various academic and non-academic activities. (3) Slow learners from different departments were identified and parent-teacher interaction was arranged to improve the efficiency of slow learners.

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

- Training provided for 5S workplace management system
- Training provided for administrative staff in the e-governance platform of the institution
- Support staff are encouraged to participate in workshops to enhance their skills

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

- Introduction of new UG course B.Tech. AIDS (Artificial Intelligence and Data Science)
- E-learning software training provided for faculty members
- Video lectures for the core courses of individual departments are being developed
- Credit transfer facility to students who successfully complete online courses (NPTEL)
- Strategic Plan is revised and implemented
- Online proctoring tool implemented for final year students
- Establishing Center of Excellence in ECE, EIE and EEE
- Online Formative Assessments conducted regularly for every course

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Academic Audit	12/12/2019	16/08/2019	17/08/2019	587
2019	API Audit	12/12/2019	18/07/2019	24/07/2019	587
2020	Proposal submission of ONE Specialized programs at UG level (AIDS)	06/03/2020	03/02/2020	03/02/2020	60
2019	Extension of further Accreditation of NBA for ECE programme	06/03/2020	23/12/2019	23/12/2019	240
2019	AICTE -CII	12/12/2019	15/11/2019	15/11/2019	587

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
Health Awareness Program - Food and Nutrition	11/07/2019	11/07/2019	280	160
Navaratri 2019	29/09/2019	07/10/2019	156	43
Fun Events for Women	21/02/2020	21/02/2020	156	4
International Women's Day	08/03/2020	08/03/2020	283	167

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
45

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
Rest Rooms	Yes	1
Special skill development for differently abled students	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	1	1	15/04/2019	1	Digital Literacy (Modhur)	The people of the village were taught	44

						about the usage of mobile phones like dialing and receiving a call, saving a number, speed dial, setting alarms, gas booking, filling Bank forms, ATM usage, online Bus and Train ticket booking etc.,	
2019	1	1	18/06/2019	1	Swachh Bharath Summer Internship Orientation	The District Rural Development Agency (DRDA) conducted a summer internship program under Swachh Bharat for the upliftment of the rural people. BIT adopted six villages namely Sadumugai, Komarapalayam, Rajan Nagar, IkkariNegamam, and C	35

						hikkarasa mpalayam	
2019	1	1	07/07/2 019	1	Orphanage Visit	The NSS volunteer s conducted orphanage visit at Universal Peace Fou ndation in Panaya mpalli (8 kms from Puliyampa tti), Sat hyamangal am to enhance the life of the orphans. To support and uplift the elderly and children of parted families.	67
2019	1	1	05/09/2 019	1	Digital Literacy	Volunte ers taught how to use mobile phones like speed dial, gas booking, filling Bank forms, ATM usage, and emergency numbers.	46
2019	1	1	09/09/2 019	1	Rally On Road Safety (Helmet) Awareness	Helmet awareness rally was conducted on 09thSe pember	150

						2019. The rally was held from SRT corner till Vadu kupettai (Sathyamangalam).	
2019	1	1	22/09/2019	5	5 Day Village Tribal Upliftment Camp	The NCLP School, Gundri was renovated. The damaged taps in the school was replaced by good taps. A Survey on Self Employment, Digital Literacy and Health Awareness on diseases like Cholera, Dengue and Diptheria to the tribal people was conducted.	55
2020	1	1	29/01/2020	7	Seven Day special camp	NSS BIT Conducted village upliftment camp at Pudukudavalli and Vedar nagar.	105
2020	1	1	07/03/2020	1	Sapling Plantation	The NSS Volunteers planted different varieties	50

						of plant saplings near Municipality Office, Sathy. Totally 600 saplings were planted from 10:30 am to 01:00 pm.	
2020	1	1	01/04/2020	6	COVID Relief Awareness	Awareness and survey assistance by volunteers was rendered during COVID	22
Nil	1	1	20/06/2020	1	COVID Relief Activity	Pamphlet sticking at common places by volunteers was done in their hometown.	12

[View File](#)

7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Chairman's Message	01/06/2019	Our aim is to teach students to LEARN, not just to STUDY. Bannari Amman Institute of Technology aims to answer this very need by providing quality education, enabling young aspirants to take on an increasingly competitive world. All academic programs offered by the Institute have been designed to offer distinct aspects of intellectual growth and development. The latest

		<p>curriculum and insight into engineering, technology, and research coupled with state-of-the-art infrastructure facilities ensure that all students gain an optimal advantage in terms of advanced technical knowledge and skills</p>
<p>Details of the Bannari Amman Educational Trust</p>	<p>01/06/2019</p>	<p>Bannari Amman Educational Trust was established in the year 1995 by Sri S V Balasubramaniam, the Founder Chairman, and Managing Trustee, with a vision to create educational facilities for students in rural areas. In pursuance of his vision, the Trust started the Bannari Amman Institute of Technology (BIT) in the year 1996 in Sathyamangalam</p>
<p>About the Institute</p>	<p>01/06/2019</p>	<p>Bannari Amman Institute of Technology is an Autonomous, Self-financing Engineering College, approved by AICTE, New Delhi and affiliated to Anna University, Chennai. The spacious and the earth hugging buildings punctuated with landscaped courtyards and pathways are designed to emphasis the business ethics and or characteristics of an excellent centre for learning. The Campus hosts well planned academic blocks, computer centres, lecture halls, libraries, laboratories, conference halls, staff quarters, hostels and students centres. The Campus also houses a co-operative store, ATM (Axis, SBI and KVB) and a clinic to attend to the general health of the</p>

		students and staff.
Rules, Regulations and Academic calendar	01/06/2019	All students shall wear neat, clean formal dress and shoes. Every student admitted to the Institute will have to wear the Identity Card attached to the lanyard on the neck always, issued by the Institution. Students are allowed to apply for leave only for valid reasons. Applications for leave should be addressed and submitted to the HoD through the Class Adviser in CAMPS. Every student should maintain a high standard of discipline, courtesy, and behavior both inside and outside the campus. Code of Conduct handbook is provided to all the students, staff, and stakeholders for each academic year.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Blood donation camp	15/06/2019	15/06/2019	72
Swachh Bharath Summer Internship	01/05/2019	15/06/2019	35
Combined Annual training camp @PSG	17/06/2019	26/09/2019	39
India book of records	07/09/2019	07/09/2019	500
Mega SWACHHTA PAKHWADA Awareness program under clean India Movement-Swachhata Bharath Mission-BIT NCC	24/09/2019	24/09/2019	100
School Visit by LEO Club	24/01/2020	24/01/2020	30
The Computer Society of India(CSI) Students'	19/10/2020	19/10/2020	30
BIT-Inaindhakaigal	11/10/2020	11/10/2020	48
Awareness program	23/10/2020	23/10/2020	127

on Career opportunities to join Defense Service			
Hundiya Money Counting @ Bannari Amman Temple	18/12/2020	18/12/2020	58
View File			

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

1. Paperless Office-Internal ERP software
2. Plastic Free Campus
3. Green landscaping with trees and plants
4. Solar Power - 45 of Institutional power requirement is met by solar power
5. Usage of LED bulbs
6. Electric vehicles are available inside the campus for transportation.
7. Recycling of wastewater by sewage treatment plant for farming
8. Rain Water Harvesting
9. Bio Gas Plant
10. Bio Composting
11. Solar Heating Systems

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

(1) Precautionary Measures Towards the COVID-19

1.1. Objective of the Practice: To carry out precautionary measures towards COVID-19

1.2. The Context: Safety Precautions for Students and Staff to Combat Covid-19

1.3. The Practice The following instructions are provided to the student, faculty members, and other workers:

- Always wear a face mask inside the campus.
- Check your body temperature and Oxygen level at all entry points of the campus.
- Wash your hands with soap or use hand sanitizer at regular intervals.
- Maintain a social distance of at least 5 feet inside the campus.
- Check your temperature before boarding the bus or leaving the hostel.
- Sit at a separate desk in the classrooms, and do not share desks.
- Maintain a social distance of five feet in the laboratories.
- Only 4 people shall occupy a table in the Dining Hall.

1.4. Evidence of Success: Zero cases for COVID-19

1.5. Problems Encountered and Resources Required: Separate Monitoring team with 240 faculty members has been allotted to check the process.

(2) Online Examination

2.1. Objective of the Practice: Online examination system is to ensure examination continuity amid any present and unforeseen disruptions, such as the one caused by COVID-19. Traditional education has suffered immensely because of the ongoing pandemic. The only way universities can sail through such times is to do away with the pen-and-paper mode of examination and adopt an online examination system. This ensures seamless continuity of academic sessions, widening the scope of an online examination system

2.2. The Context: Online Examination System is a system from which our institutions can benefit. This system provides the student information, questionnaires, and answers and automatically computes the scores. It is conducted through Moodle which improves accessibility for remote candidates. The candidate is given a limited time to answer the questions and after the time expiry the answer paper is disabled automatically and answers are sent to the examiner. The examiner will evaluate answers, either through an automated process or manually and the results will be sent to the candidate. The advantage is that it can be conducted for remote candidates and evaluation of answers can be fully automated for multiple choices. Questions can be evaluated by an automated system, depending on the nature of the questions and the requirements. Identify whether the exact students take that exam and their eyeball movement using a webcam.

2.3. The Practice Do's:

- ? Clean up your cache, history, cookies.
- ? Enable Call Forwarding, and disable all your notifications.
- ? Make sure your internet meets the required bandwidth.
- ? Internet Backup - Make sure you have 2 hotspots always on.
- ? Battery Backup- Make sure you have a battery backup of at least 2 hours.
- ? Make sure you are seated with a plain

wall as the background. ? Both ears to be visible in the webcam feed during the test. Don'ts: ? Do not move from the test-taking screen once the test has commenced. ? Do not turn or look away from the monitor during the test. ? Do not have any photos or portraits in the background. ? Do not cover your webcam during the test. ? Do not sit in a location where you will be distracted from the test screen. ? Do not reload the test page after the test has commenced.

2.4. Evidence of Success: Greater than 95 of students attended exams successfully
2.5. Problems Encountered and Resources Required • Network Problem: Due to poor network, students may not be connected all the time • Self-Learning Practice: Student can get familiarity with Moodle, feels free to attend exams successfully

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

https://docs.bitsathy.ac.in/naac/agar/2019-2020/7.2_BestPractices.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

Bannari Amman Institute of Technology has a vision of becoming centre of excellence providing world-class education by providing state-of-the-art facilities to members of faculty and student fraternity. To achieve the goal, BIT has established 56 Basics and Applied laboratories with state-of-the-art facilities within the campus for practicing the 5P's. These labs provide 24x7 access for training in the relevant fields/skills. The institution practices the 5P model- Practice of skills for latest technological development, Participation in International/ National technical/ non-technical events, Product Development, Patent filing, and providing solutions to societal problems through Consultancy to achieve the vision through the mission of the institution. <https://www.youtube.com/watch?v58IMVosCbkk27s> These facilities have been created to promote, inspire and educate future generations of scientists, engineers, and technologists to transform their ideas and to develop new innovative products. To enhance the professional development of students, they are provided on-duty, full sponsorship for component purchase, full-time technical experts guidance, the opportunity for participating in national/ international competitions/ revenue generation through industrial consultancy/ development of Commercial product/ Filing patents, etc. The faculty in these labs motivate and guide the students to achieve more in various domains. These efforts have paid rich dividends through excellent results in all the events where the students of BIT participated.

Provide the weblink of the institution

<https://bitsathy.ac.in/research/speciallabs/>

8.Future Plans of Actions for Next Academic Year

(1) Implementation of the Question Paper scrutiny process. (2) Introduction of a formative assessment system to assess the learning level of the students on a daily basis. (3) Introducing remedial classes for weaker students. (4) Due to the pandemic situation, the online classes, laboratories, skill training, Webinars, Conferences are planned to be conducted in online mode. (5) Creating Intra-college forums for students from different labs to present their ideas. (6) Planned to offer communication training for students. (7) Enhancement of industry collaboration through special laboratories by product development. (8) Planned to patent the design, methodology, and product developed by the students. (9) Implementation of FRS and FRP with additional beneficiaries for faculty members. (10) Offering training to faculty members through CFD for video lectures. (11) Planned to launch the 'Task management system' to monitor the daily activities of

faculty members. (12) Introducing the learning platforms called 'Moodle' and 'MediaWiki'