



## Yearly Status Report - 2018-2019

### Part A

#### Data of the Institution

Part A	
<b>Data of the Institution</b>	
<b>1. Name of the Institution</b>	BANNARI AMMAN INSTITUTE OF TECHNOLOGY
Name of the head of the Institution	C PALANISAMY
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

<b>2. Institutional Status</b>	
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.P.Sampath
Phone no/Alternate Phone no.	04295226183
Mobile no.	9443003507
Registered Email	iqac@bitsathy.ac.in
Alternate Email	sampathece@bitsathy.ac.in

<b>3. Website Address</b>	
Web-link of the AQAR: (Previous Academic Year)	<a href="https://docs.bitsathy.ac.in/naac/pdf/aqar/AQAR2017-18.pdf">https://docs.bitsathy.ac.in/naac/pdf/aqar/AQAR2017-18.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="https://docs.bitsathy.ac.in/about/circulars/bit/BIT_Calender_2018_19.pdf">https://docs.bitsathy.ac.in/about/circulars/bit/BIT_Calender_2018_19.pdf</a>

<b>5. Accrediation Details</b>					
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

<b>6. Date of Establishment of IQAC</b>	17-Dec-2009
---	-------------

<b>7. Internal Quality Assurance System</b>
---

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by	Date & Duration	Number of participants/ beneficiaries

IQAC		
Academic Audit	17-Aug-2019 1	570
API Audit	18-Jan-2019 2	570
API Audit	22-Jul-2019 2	570
5S Internal audit & Steering committee	05-Jul-2018 1	30
5S Internal audit & Steering committee	05-Jan-2019 1	29
Research interaction- Dr. Sandeep Kumar, Professor, Raman Research Institute, Bangalore	11-Jun-2018 1	31
Workshop with Hands on training on LaTeX- A Document Preparation Software	07-Jul-2018 1	48
Workshop with Hands on training on LaTeX- A Document Preparation Software	09-Jul-2018 1	52
Workshop on Review paper writing	23-Jul-2018 1	22
Research interaction	27-Jul-2018 1	23
<a href="#">View File</a>		

**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.R.Balakrishnan	Technology based Entrepreneurship Development Programme (TEDP)	DST-NIMAT	2018 365	300000
Mrs. K. Poomani	Design and Fabrication of Semi Automatic Handloom Machine by monitoring the position of reed	TNSCST	2018 30	10000
Dr. P. Thangaraj, Dr.	Margadharshan Scheme	AICTE	2018 1095	1800000

A. Bazila Banu B, VishnuPriya R, S. Soundariya				
Dr. R. Ravikumar	Microbial recovery of biogenic methane from coal rejects with CO2 sequestration	DST	2019 1095	102030000
Dr.Sanjay Deb Mr.Rajasekar L	Prototype Design and Field Testing of an Elephant Early Warning System	DST-SERB	2018 730	983000
Dr S.Logeswari	IEEE International Conference on Advances in Computing and Communication Engineering (ICACCE 2019)	CSIR	2019 90	200000
Dr. K.Ramalakshmi	Shelf stable coffee extract	MARKASIA BEVERAGES PRIVATE LIMITED	2018 180	400000
Dr. M.L.N. Madhu Mohan	Study of light modulation optical shuttering and filtering action in HBLC	SERB,NEW DELHI	2018 1095	2126000
Dr. K. Senthil	Surface modification of one dimensional metal oxide nanostructures by ion implantation for spintronics and gas sensing applications	UGC DAE CSR	2019 1095	226000
Dr.K.Premalatha	Land use based flood Damage Assessment using Remote Sensing Chennai Case Study	DST-NRDMS	2017 730	1050000
<a href="#">View File</a>				

9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
---	-----

Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	4
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	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

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

- Improvement in Teaching -Learning through CLMRBT (Creative Learning Method - Revised Bloom's Taxonomy)
- Suggestions for setting and improvement of question papers
- Conduct Academic and Administrative Audit in the various academic and administrative departments.
- Exam wrapper for the End Semester Examinations of the Academic year 201819
- Special Interest Groups (SIGs) for faculty
- Daily news, Monthly news and Budbringer

[View File](#)

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

Plan of Action	Achievements/Outcomes
To maintain the gender balance in the faculty and non-teaching staff members.	Gender wise ratio for the Institute between male faculty and female faculty members is 62:38.
To complete the construction of new blocks for Agricultural Engineering and Automobile Engineering. Further increase in hostel accommodation for boys will be taken up.	Completed
To provide mentoring support to the faculty members. API is followed to assess the performance of Faculty.	"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 and 100% filing charges for IPR"

Continue to offer other languages like Japanese, Chinese, German, French, Spanish and Hindi.	All these languages are offered
Encourage faculty members to publish more research papers minimum one research paper per faculty on an average in the 'Scopus' journals, Web of Science and Indian Citation Index Journals.	409 papers have been published in various SCI National and International Journals by the Faculty. 235 papers have been presented by the faculty in various International and National Conferences.
To encourage faculty members to pursue Ph.D. and maintain the strength of Ph.D. holders at 30% and above.	Faculty members have registered for Ph.D and Faculty members with Ph.D. are 191 out of 570
Use indicators to motivate and monitor the performance of the students. Students to meet around 80% of AQL (Acceptance Quality Level)	Student Performance indicators have motivated the students to perform better. The department wise average has increased compared to previous year.
To effectively utilize the e-learning materials like NPTEL, SWAYAM, NITTT&R and extend e-learning and evaluation in UG & PG programmes.	The e-learning materials of NPTEL, NITTT&R are accessible from dedicated server for faculty members.
More interdisciplinary elective courses and projects will be introduced	Interdisciplinary elective courses offered interms of open electives
Curriculum with stated objectives and outcomes will be linked with innovative measures.	The Curriculum is revised and 2018 Regulation for UG and PG introduced.
<a href="#">View File</a>	

<b>14. Whether AQAR was placed before statutory body ?</b>	Yes				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Name of Statutory Body</th> <th style="width: 50%;">Meeting Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Governing Council</td> <td style="text-align: center;">31-Aug-2019</td> </tr> </tbody> </table>		Name of Statutory Body	Meeting Date	Governing Council	31-Aug-2019
Name of Statutory Body	Meeting Date				
Governing Council	31-Aug-2019				
<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes				
Date of Visit	29-Mar-2019				
<b>16. Whether institutional data submitted to AISHE:</b>	Yes				
Year of Submission	2020				
Date of Submission	04-Mar-2020				
<b>17. Does the Institution have Management Information System ?</b>	Yes				

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

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 scheduling, 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 Integrated Information Management System to provide the best experience for faculty and students in an academic organization. In house 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](http://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	06/06/2018
BE	102	AGRICULTURE ENGINEERING	06/06/2018
BE	103	AUTOMOBILE ENGINEERING	06/06/2018
BE	104	CIVIL ENGINEERING	06/06/2018
BE	105	COMPUTER SCIENCE AND ENGINEERING	06/06/2018
BE	106	ELECTRONICS AND COMMUNICATION ENGINEERING	06/06/2018
BE	107	ELECTRICAL AND	06/06/2018

		ELECTRONICS ENGINEERING	
BE	108	ELECTRONICS AND INSTRUMENTATION ENGINEERING	06/06/2018
BE	109	MECHANICAL ENGINEERING	06/06/2018
BE	110	MECHATRONICS	06/06/2018
<a href="#">View File</a>			

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	Agriculture Engineering	01/06/2018	18AG104 BASIC ELECTRICAL ENGINEERING	06/06/2018
BE	Aeronautical Engineering	01/06/2018	18AE104 AIRCRAFT PRODUCTION TECHNOLOGY	06/06/2018
BE	Automobile Engineering	01/06/2018	18AU104 BASICS OF ELECTRICAL ENGINEERING	06/06/2018
BE	Civil Engineering	01/06/2018	18CE104 BASICS OF ELECTRICAL ENGINEERING	06/06/2018
BE	Computer Science and Engineering	01/06/2018	18CS104 COMPUTER PROGRAMMING I	06/06/2018
BE	Electronics and Communication Engineering	01/06/2018	15EC304 LINEAR INTEGRATED CIRCUITS	06/06/2018
BE	Electrical and Electronics Engineering	01/06/2018	18EE104 COMPUTER PROGRAMMING I	06/06/2018
BE	Electronics and Instrumentation Engineering	01/06/2018	18EI104 COMPUTER PROGRAMMING I	06/06/2018
BE	Mechanical Engineering	01/06/2018	18ME104 BASICS OF ELECTRICAL ENGINEERING	06/06/2018
BE	Mechatronics	01/06/2018	18MC104 CIRCUIT THEORY	06/06/2018
<a href="#">View File</a>				



## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	AERONAUTICAL ENGINEERING-ENGINEERING MATHEMATICS I	06/06/2018
BE	AERONAUTICAL ENGINEERING-ENGINEERING PHYSICS I	06/06/2018
BE	AERONAUTICAL ENGINEERING- AIRCRAFT PRODUCTION TECHNOLOGY	06/06/2018
BE	AGRICULTURAL ENGINEERING- ENGINEERING CHEMISTRY II	06/06/2018
BE	AUTOMOBILE ENGINEERING- ENGINEERING PHYSICS I - STATICS	06/06/2018
BE	AERONAUTICAL ENGINEERING- COMPUTER PROGRAMMING I	06/06/2019
BE	AUTOMOBILE ENGINEERING- ENGINEERING PHYSICS II - DYNAMICS	06/06/2018
BTech	BIOTECHNOLOGY- BIOTECHNOLOGY LABORATORY PRACTICES	06/06/2018
BE	Automobile Engineering- MANUFACTURING PROCESSES I	06/06/2018
BE	Automobile Engineering- BASICS OF ELECTRICAL ENGINEERING	06/06/2018
<a href="#">View File</a>		

### 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	06/06/2018
BE	AGRICULTURE ENGINEERING	06/06/2018
BE	AUTOMOBILE ENGINEERING	06/06/2018
BE	CIVIL ENGINEERING	06/06/2018
BE	COMPUTER SCIENCE AND ENGINEERING	06/06/2018
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	06/06/2018
ME	STRUCTURAL ENGINEERING	06/06/2018

ME	COMPUTER SCIENCE AND ENGINEERING	06/06/2018
ME	APPLIED ELECTRONICS	06/06/2018
ME	POWER ELECTRONICS AND DRIVES	06/06/2018
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	06/06/2018
ME	COMMUNICATION SYSTEMS	06/06/2018
ME	VLSI DESIGN	06/06/2018
BE	ELECTRONICS AND INSTRUMENTATION ENGINEERING	06/06/2018
ME	EMBEDDED SYSTEMS	06/06/2018
ME	INSTRUMENTATION ENGINEERING	06/06/2018
BE	MECHANICAL ENGINEERING	06/06/2018
ME	ENGINEERING DESIGN	06/06/2018
ME	CAD/CAM	06/06/2018
ME	INDUSTRIAL SAFETY ENGINEERING	06/06/2018
BE	MECHATRONICS	06/06/2018
ME	INDUSTRIAL AUTOMATION AND ROBOTICS	06/06/2018
BTech	BIOTECHNOLOGY	06/06/2018
Mtech	BIOTECHNOLOGY	06/06/2018
BTech	FOOD TECHNOLOGY	06/06/2018
BTech	FASHION TECHNOLOGY	06/06/2018
BTech	INFORMATION TECHNOLOGY	06/06/2018
ME	SOFTWARE ENGINEERING	06/06/2018
BTech	TEXTILE TECHNOLOGY	06/06/2018
MBA	MBA	06/06/2018

### 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
Data science for engineers	04/06/2018	85
Digital Marketing	04/06/2018	40
Autocad	04/06/2018	85
Production technology of biofertilizers and biopesticides	04/06/2018	42
Soil testing	04/06/2018	90
ANSYS-Structural	04/06/2018	51

CATIA	04/06/2018	66
Textile chemical processing	04/06/2018	106
Garment Construction	04/06/2018	47
Abstract Ink based Indian Illustration	04/06/2018	45
<a href="#">View File</a>		

### 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	44
BE	AGRICULTURE ENGINEERING	66
BE	MECHANICAL ENGINEERING	281
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	321
BE	ELECTRONICS AND ELECTRONICS ENGINEERING	187
BTech	Information Technology	358
BTech	Biotechnology	250
BTech	Textile Technology	181
BTech	Food Technology	96
BTech	Fashion Technology	75
<a href="#">View File</a>		

## 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 programmes and for the development of the institution. The students give feedback on the courses during the course committee meetings, Class Committee meetings and through online. The feedback collected is analysed by the Professor in-charge and Head of 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 is 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 Board of Studies Meeting. The feedback</p>

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 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 in more than 75 percent 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.

## CRITERION II – TEACHING- LEARNING AND EVALUATION

### 2.1 – Student Enrolment and Profile

#### 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	Aeronautical Engineering	60	42	42
BE	Agriculture Engineering	60	44	44
BE	Automobile Engineering	60	66	66
BTech	Biotechnology	180	130	130
BE	Civil Engineering	180	94	94
BE	Computer Science and Engineering	240	226	226
BE	Electronics and Communication Engineering	240	206	206
BE	Electrical and Electronics Engineering	180	146	146
BE	Electronics and Instrumentation Engineering	120	81	81
BTech	Fashion Technology	60	46	46

[View File](#)

### 2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	6811	270	503	12	55

## 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
570	570	14	187	187	5
<a href="#">View File of ICT Tools and resources</a>					
<a href="#">View File of E-resources and techniques used</a>					

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

Students Mentoring System Mentoring System in Bannari Amman Institute of Technology (BIT) is to facilitate the students to improve in their academic and extra-curricular activities. In BIT, every mentor will be allocated with 20 students when they are admitted during their first year and same mentor will be continued till their final year. They will be interacting with students frequently to ensure their work progress. 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 environment and lead their ways into highly successful careers. Objective of Mentoring System

- To enhance students academic performance
- To identify and understand the status of slow learners and encourage advanced learners
- To improve the participation of students in 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 Format which contains details of students performance in tests, participation in events, attendance etc.,
- Based on the information collected from students they will be given guidance and counselling whenever required
- Mentors will have interaction with parents of their mentee students once in a semester or whenever situation arises.
- Progress of the students will be informed to the parents
- Mentors also keep track of the mentees performance in their academic and extra and co-curricular activities

The HODs (Head of the Department) 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
7081	570	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
570	570	Nil	74	191

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Mr.G.Prasad	Assistant Professor	Executive member for Aerospace Engineering in Erode division from IEI
2019	Dr.Divyabharathi R	Assistant Professor	H.L. Dorai award for Best Ph.D student of Agricultural engineering college and research institute, Tamil Nadu Agricultural University, Coimbatore
2018	Dr. M. Vasudevan	Assistant Professor	Special award for most cited article in 2015-16 from Korean Society of Environmental Engineers
2018	Mr. K. Babu	Assistant Professor	Best citizen of India gold medal award
2018	Mrs.R.Geethamani	Assistant Professor	Best Researcher in Air Pollution from RULA AWARDS
2018	Mr.Jayaraman A	Assistant Professor	National Award of Excellence a distinction of being one of the BEST TEACHER IN THE country
2019	Mrs.Karthiga Shenbagam N	Assistant Professor	Best Blood Donation Campaign Award 2019
2018	Dr.R.Gomathi	Associate Professor	Young Faculty Achiever Award
2019	Dr.Subrata Das	Professor	Bronze Category recognition
2019	Dr.Ganesh Babu C	Professor	IEEE Best Paper Award
<a href="#">View File</a>			

**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	Auotmobile Engineering	4/2	08/06/2019	28/06/2019
MBA	Master of Business Adminstration	4/2	08/06/2019	28/06/2019
ME	CAD CAM	4/2	01/04/2019	11/04/2019
BE	Agriculture Engineering	8/4	01/04/2019	11/04/2019
BE	Aeronautical Engineering	2/1	08/06/2019	28/06/2019
BE	Aeronautical Engineering	7/4	10/12/2018	28/12/2018
ME	CAD CAM	3/2	10/12/2018	28/12/2018
BE	Agriculture Engineering	1/1	12/01/2019	02/02/2019
BE	Auotmobile Engineering	1/1	12/01/2019	02/02/2019
MBA	Master of Business Adminstration	1/1	12/01/2019	02/02/2019

[View File](#)

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
58	14120	0.41

## 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://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
101	BE	Aeronautical Engineering	39	36	92.31
102	BE	Agriculture Engineering	52	51	98.08
103	BE	Automobile	66	56	84.85

		Engineering			
104	BE	Civil Engineering	130	103	79.23
105	BE	Computer Science and Engineering	234	219	93.59
106	BE	Electronics and Communication Engineering	223	196	87.389
107	BE	Electrical and Electronics Engineering	133	125	93.98
108	BE	Electronics and Instrumentation Engineering	102	98	96.08
109	BE	Mechanical Engineering	282	232	82.27
110	BE	Mechatronics	127	105	82.68
<a href="#">View File</a>					

## 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/agar/2.7.1-SSS-Analysis-Graph.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

<b>Yes</b>
Name of the teacher getting seed money
Dr. BALAKRISHNARAJA Mr. RAJASEETHARAMA
<a href="#">View File</a>

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	DR. A. Jagadeesan	Abroad Travel Award	21/09/2018	AMIST UNIVERSITY,



				KEDAH, MALAYSIA
International	Mr.B.Kalidasan	Research Training	22/05/2019	SUNWAY UNIVERSITY, MALAYSIA
International	Dr. M.Thirugnanasambandam	Research Collaboration and Expert Talk	12/10/2018	SUNWAY UNIVERSITY, MALAYSIA
International	Dr. K. Rajakumar	Postdoctoral Fellowship	31/08/2019	MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION, RUSSIA
International	Dr. V. Sathish	DST travel grant	31/05/2019	SERB- ATTEND A CONFERENCE IN USA
<a href="#">View File</a>				

### 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	0.75	0.75
Students Research Projects (Other than compulsory by the University)	180	TNSCST	0.75	0.75
Students Research Projects (Other than compulsory by the University)	365	TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY	0.75	0.75
Minor Projects	455	RUTAG-TN, INDIAN INSTITUTE OF TECHNOLOGY MADRAS	0.82	0.75
Major Projects	1095	UGC DAE CSR	7.05	2.26
Major Projects	730	DST-SERB	9.83	6.23
Major Projects	730	DST-NRDMs	10.5	6.35

Major Projects	1095	AICTE	18	9
Major Projects	1095	SERB,NEW DELHI	21.26	17.5
Major Projects	1095	DST	102.3	70.8
<a href="#">View File</a>				

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

14
----

### 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
e-yantra robotics	Food Technology	27/08/2018
Global Health Challenges: Processed and Unprocessed Foods	Food Technology	11/10/2018
OPPORTUNITIES FOR FOOD TECHNOLOGISTS IN OVERSEAS	Fashion Technology	21/12/2018
Workshop on Fashion Photography	Fashion Technology	27/12/2018
Fashion accessories	Fashion Technology	15/02/2018
Bagru printing	Fashion Technology	16/09/2018
Fabric sourcing	Fashion Technology	09/03/2019
Urbanization Foundation failure case studies	Civil Engineering	19/07/2018
Deep Excavations with support techniques	Civil Engineering	19/07/2018
Drilled Driven Pile Foundations	Civil Engineering	20/07/2018
Piled raft, well Caisson foundations	Civil Engineering	20/07/2018
Permeability Compressibility Characteristics Of Soils	Civil Engineering	07/09/2018
Career Guidance on Public sectors	Civil Engineering	07/09/2018
Design Aspects of Steel Structures	Civil Engineering	14/09/2018
Current Trends in Civil Engineering	Civil Engineering	18/09/2018
Options and Opportunities for Civil Engineers	Civil Engineering	13/10/2018
Career guidance for	Civil Engineering	24/10/2018

Civil Engineers		
Doing innovative student projects	Civil Engineering	11/01/2019
Big Data Analytics	Computer Science and Engineering	19/02/2019
Opportunities in Gulf country Higher studies	Civil Engineering	18/01/2019
Awareness About Education In Overseas	Civil Engineering	19/01/2019
Cement Manufacturing Process and its Global Impacts	Civil Engineering	22/02/2019
Big Data Analytics for Cyber Intelligence and Defense on Cyber crimes against Women	Computer Science and Engineering	27/03/2019
Opportunities for Higher Education in Abroad	Computer Science and Engineering	24/12/2018
Cloud Infrastructure Services and Blockchain Technology	Computer Science and Engineering	01/02/2019
Machine Learning in Hadoop	Computer Science and Engineering	05/01/2019
Block Chain Technologies	Computer Science and Engineering	02/02/2019
Emerging Techniques and Applications of Deep Learning	Computer Science and Engineering	04/02/2019
Machine Learning and Multimedia	Computer Science and Engineering	19/01/2019
Workshop on Linux	Computer Science and Engineering	01/08/2019
Innovations in Information Technology	Computer Science and Engineering	02/03/2018
Advanced Data Analytics	Computer Science and Engineering	03/12/2018
Recent Emerging Technologies	Computer Science and Engineering	16/03/2018
Robotics Process Automation	Computer Science and Engineering	23/06/2018
Awareness on Corporate Environment	Computer Science and Engineering	01/10/2018
Introduction to Angular Java	Computer Science and Engineering	13/10/2018
Guest lecture on Robotics and Automotive Electronics	Electronics and Communication Engineering	18/08/2018

Cyber Security and its impact in the Digital World	Electronics and Communication Engineering	16/10/2018
Medical Image Processing	Electronics and Communication Engineering	10/11/2018
International Conference on Applied Science Engineering and Technology	Electronics and Communication Engineering	29/12/2018
National Workshop on Software Defined Radio for Real-Time Communication	Electronics and Communication Engineering	01/02/2019
one day FDP on Recent learning paradigms in medical image processing	Electronics and Communication Engineering	21/02/2019
six days Faculty Development Programme on Machine Learning and Deep Learning: Research and Application perspectives	Electronics and Communication Engineering	19/01/2019
One day Workshop on Intelligent Techniques for Image Processing	Electronics and Communication Engineering	21/12/2018
Embedded Micro controller	Electronics and Communication Engineering	04/02/2019
Advancements in CNC Technology	Mechatronics	06/10/2018
Industrial automation	Mechatronics	21/12/2018
Hands on training on various computational technique and experimental characterization	Physics	16/05/2019
Current Scenarios and Future Prospects of Biotechnology (CSFPB-2016),	Bio Technology	21/01/2019
Two days International Workshop on Molecular Diagnosis for Pathogenic Bacteria - III	Bio Technology	22/06/2019
One day National Workshop on "Rapid Detection of Food Borne Pathogen-III"	Bio Technology	15/12/2018
National Symposium - Viverrawarna 19	Bio Technology	24/01/2019
One day National Workshop on "Molecular Diagnostics for	Bio Technology	22/06/2019

Pathogenic Bacteria-IV"		
Nano-biotechnology: Applications, Recent Developments, Future prospects	Bio Technology	13/03/2019
IIRS/ISRO Outreach Program on RS and GIS Applications	Civil Engineering	29/10/2018
Introduction to Construction Management and Job Opportunity in Industry	Civil Engineering	03/07/2018
Career guidance for Civil Engineers	Civil Engineering	03/07/2018
Field Exposure for Young Civil Engineers	Civil Engineering	14/07/2018
Entrepreneur Awareness for students of Fashion Technology department on how to start business with unique ideas.	Information Technology	24/10/2018
Block Chain Technologies	Information Technology	06/04/2019
Security for Cyber Physical Systems, Artificial Intelligence Machine Learning and Analytics for Industries	Information Technology	04/04/2019
Basics of python	Information Technology	19/03/2019
Fundamentals of Malware analysis	Information Technology	30/03/2019
Workshop on AR-VR	Information Technology	18/03/2019
workshop on IOT and Drones	Information Technology	02/03/2019
Multimedia Photoshop	Information Technology	24/09/2018
Campus Connect Program	Information Technology	20/12/2018
Margadharshan : FDP on Machine and Deep Learning: Research and Application Perspectives	Information Technology	19/01/2019
NCW sponsored Awareness about Legal rights of Women	MATHS	26/12/2018
Industry expectations from the Mechanical Design Engineer	Mechanical Engineering	20/06/2018
Statutory Provisions in the Factories Act to Health and Safety and	Mechanical Engineering	06/07/2018

Best Safety Practices in Industries		
Higher Education Opportunities in Foreign Universities.	Mechanical Engineering	11/08/2018
Design and working principal of pumps and applications	Mechanical Engineering	20/08/2018
Materials Manufacturing Process and Research Funding Proposal Writing	Mechanical Engineering	23/08/2018
Installation, entitled HUAC and its industrial applications	Mechanical Engineering	14/09/2018
Higher Education Opportunities in abroad	Mechanical Engineering	28/01/2019
Introduction to Vehicle Dynamics	Mechanical Engineering	28/01/2019
Higher Education Awareness Program	Mechanical Engineering	30/01/2019
Industrial Defined Problem (Skype Interaction)	Mechanical Engineering	24/01/2019
National conference on energy, ecology and environment	Mechanical Engineering	02/08/2018
Environmental Management for Sustainable Development	Physics	17/04/2019
Financial Workshop on Stock Exchange ,Primary and secondary market.	School of Management	09/08/2018
Recent trends in HR	School of Management	18/08/2018
Scope for MBA students	School of Management	27/08/2018
Industry expectations as a fresher	School of Management	29/08/2018
Data Analytics Using Pivot Table and Power Query	School of Management	18/09/2018
National Conference on Digital Marketing: Scope and Opportunities	School of Management	31/10/2018
Latest Developments in Technical Textiles and Garments	Textile Technology	18/05/2019
Intercollege Symposium on TEXUS 2k16	Textile Technology	11/08/2019
workshop on 'Advanced Nonwoven Technology and Interlinings	Textile Technology	20/02/2019

respectively'		
A National Level Students Symposium TEXUS2K19	Textile Technology	04/01/2019
One day National Workshop on "Molecular Diagnostics for Pathogenic Bacteria-IV"	Bio Technology	22/06/2019
Nano-biotechnology: Applications, Recent Developments, Future prospects	Bio Technology	13/03/2019
IIRS/ISRO Outreach Program on RS and GIS Applications	Civil Engineering	29/10/2018
Introduction to Construction Management and Job Opportunity in Industry	Civil Engineering	03/07/2018
Career guidance for Civil Engineers	Civil Engineering	03/07/2018
Field Exposure for Young Civil Engineers	Civil Engineering	14/07/2018
Urbanization Foundation failure case studies	Civil Engineering	19/07/2018
Deep Excavations with support techniques	Civil Engineering	19/07/2018
Drilled Driven Pile Foundations	Civil Engineering	20/07/2018
Piled raft, well Caisson foundations	Civil Engineering	20/07/2018
Permeability Compressibility Characteristics Of Soils	Civil Engineering	07/09/2018
Seminar on Intellectual Property Rights	Mechanical Engineering	17/08/2019
IPR Awareness Review programme	Mechanical Engineering	08/09/2019
Awareness Programme on Intellectual Property Rights (IPR)	Electrical and Electronics Engineering	22/12/2018
International Conference on Whole Grain Processing and Products for Healthy Life	Agricultural Engineering	21/08/2018
Workshop on "Internal Combustion Engine Testing Emission Control Technology"	Automobile Engineering	09/12/2018
Workshop on Application	Automobile Engineering	25/09/2018

of IoT (Internet of Things) in Automobile Engineering"		
Workshop on "Recent and Advanced trends in Automobile Component Desing"	Automobile Engineering	06/10/2018
One Day Guest Lecture on Crash Testing for Automobile Vehicles	Automobile Engineering	15/06/2019
One Day Workshop on Recent Trends and Advancements in Automotive Technology	Automobile Engineering	15/09/2018
Industrial Automation in Vehicle body Engineering	Automobile Engineering	23/10/2018
National Level Workshop on "Designing of Experiments Minitab: Statistical Software Tools"	Bio Technology	08/09/2018
National Level Workshop on Rapid Detection of Food Borne Pathogens	Bio Technology	07/08/2018
ViverraWarna-Futuristic approaches in biotechnology	Bio Technology	14/03/2018
National Conference on Liquid Crystals Nanoscience 2018	Physics	23/08/2018
DST inspire internship science camp 2018	Physics	26/12/2018
INSPIRE Science Camp for School Students	Physics	26/12/2018
Addtive Manufacturing futures and challenges	Mechanical Engineering	10/09/2018
Introduction to Cloud computing	Electronics and Communication Engineering	17/03/2019
Hands on Training on VLSI System	Electronics and Communication Engineering	22/01/2019
National Workshop on Fuzzy Logic Implementation in Embedded Systems	Electronics and Communication Engineering	14/03/2019
Image Processing Application using MATLAB Simulink	Electronics and Communication Engineering	06/04/2019
AICTE Sponsored Guest Lecture On ELECTRIC VEHICLE TECHNOLOGY	Electrical and Electronics Engineering	02/11/2019



PIC MICRO CONTROLLER PROGRAMMING	Electronics and Instrumentation Engineering	20/07/2018
Earthing Practive	Electrical and Electronics Engineering	15/12/2019
Training session on Mendelely - A Reference Management Software phase II	Electrical and Electronics Engineering	16/11/2018
Grid Connected Solar-Wind Energy Systems	Electrical and Electronics Engineering	27/03/2019
Four week faculty development programme on Use of ICT in Education for Online and Blended Learning	Electrical and Electronics Engineering	05/02/2019
PCID CONFERENCE	Electrical and Electronics Engineering	18/03/2019
Electrical safety	Electrical and Electronics Engineering	03/07/2019
RESEARCH PAPER WRITING	Electronics and Instrumentation Engineering	23/06/2018
ARM M4 PROGRAMMING	Electronics and Instrumentation Engineering	10/05/2018
One-day National Workshop on Intelligent Techniques for Image Processing	Electronics and Instrumentation Engineering	21/12/2018
<a href="#">View File</a>		

### 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
Concrete Canoe Winner	Mr.N.V.Manjunath Group of students	Mukesh patel school of technology management engineering	10/04/2019	Teacher and Student
Best paper Award	V.Jayanthi, Sarveswaran, Swastikaa, Swaranandhini	Dr.NGP Institute of Technology	05/02/2019	Teacher and Student
Special Appreciation Award	Adhithya, Navanitha, Niksheethi	ACCE	15/09/2018	Teacher and Student
National award of excellence gold medal	Mr.A.Jayaraman	Global Management Council,Ahmedabad	31/12/2018	Teacher
SERB Travel	Dr. V.	SERB	31/05/2019	Teacher

Grant	Sathish			
Summer Reserch Fellowship	Ms. Deepika	Indian Academy of Science	26/03/2019	Teacher
BEST R D AWARD	Bannari Amman Institute of Technology	SOCIETY FOR ENGINEERING EDUCATION ENRICHMENT ASSOCIATION	20/07/2019	Institution
BEST INDUSTRY LINKED ENGINEERING INSTITUTE	Bannari Amman Institute of Technology	CII COIMBATORE	25/02/2019	Institution
CODE OF CONDUCT OF COUNCIL	Bannari Amman Institute of Technology	COUNCIL FOR FAIR BUSINESS PRACTICES	12/04/2019	Institution
<a href="#">View File</a>				

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

Incubation Center	Name	Sponsered By	Name of the Start-up	Nature of Start-up	Date of Commencement
TBI (TECHNOLOGY BUSINESS INCUBATOR)	Mr.M.Mohan raj	Bannari Amman Institute of Technology	Fallooda Ice Creams	Machine for Ice distribution	27/04/2019
TBI (TECHNOLOGY BUSINESS INCUBATOR)	Mr.M.Anand akumar	Bannari Amman Institute of Technology	Agri Solar power pumping System Jesuans eng india pvt ltd	Agri Solar power pumping System	30/08/2019
TBI (TECHNOLOGY BUSINESS INCUBATOR)	Mr.M.Jahan athan	Bannari Amman Institute of Technology	Vallalar Herbals	Moringa leaf powder	22/04/2018
TBI (TECHNOLOGY BUSINESS INCUBATOR)	Mrs.M.Nirmaladevi	Bannari Amman Institute of Technology	ThaiShai	Health mix	20/07/2018
TBI (TECHNOLOGY BUSINESS INCUBATOR)	Mrs.T.Radhi ka	Bannari Amman Institute of Technology	Unijet Pneumatics Pvt Ltd	Hydroponics	18/07/2019
TBI (TECHNOLOGY BUSINESS INCUBATOR)	Dr.E.Baran itharan	Bannari Amman Institute of Technology	Bio-Toilet	Bio-Toilet	01/08/2018
TBI (TECHNOLOGY BUSINESS INCUBATOR)	Ms.M.Madhu ranjani	Bannari Amman Institute of Technology	Iswaria Foods	Health Mix	15/08/2018

TBI (TECHNOLOGY BUSINESS INCUBATOR)	Mr.R.Rajesh	Bannari Amman Institute of Technology	ABD Bio Care	Azolla Dis semination and Technology Recapture	11/08/2018
TBI (TECHNOLOGY BUSINESS INCUBATOR)	Mrs.M.Chitra	Bannari Amman Institute of Technology	Acme Progen Biotech ltd	Research services on Molecular biology/ Mic robiology/ Biochemistry	10/09/2018
TBI (TECHNOLOGY BUSINESS INCUBATOR)	Dr.K.Rajad uraipandi	Bannari Amman Institute of Technology	Erode Health Foundation	New generation microscope	10/09/2018
<a href="#">View File</a>					

### 3.4 – Research Publications and Awards

#### 3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
MATHEMATICS	1
MECHANICAL ENGINEERING	3
PHYSICS	2
SCHOOL OF MANAGEMENT STUDIES	1
TEXTILE TECHNOLOGY	2
AERONAUTICAL ENGINEERING	1
AUTOMOBILE ENGINEERING	3
CHEMISTRY	3
COMPUTER SCIENCE AND ENGINEERING	6
ELECTRONICS AND COMMUNICATION ENGINEERING	9
ELECTRICAL AND ELECTRONICS ENGINEERING	3
ELECTRICAL AND INSTRUMENTATION ENGINEERING	1
INFORMATION TECHNOLOGY	5

#### 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	Information Technology	20	1.39
International	Textile Technology	23	1.17
International	Automobile Engineering	9	0.84
International	Bio Technology	40	3.15

International	Chemistry	44	1.8
International	Civil Engineering	17	3.75
International	Electrical and Electronics Engineering	42	1.35
International	Electrical and Communication Engineering	148	3.21
International	Electronics and Instrumentation Engineering	19	1.5
International	Mechanical Engineering	123	5.33

[View File](#)

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
Automobile Engineering	16
Chemistry	9
Civil Engineering	6
Electrical and Electronics Engineering	5
Electrical and Communication Engineering	3
Electronics and Instrumentation Engineering	7
Mechanical Engineering	4
Information Technology	20
Textile Technology	12
Bio Technology	5

[View File](#)

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
A SMART SPINE REST FOR MOTOR BIKE	Published	201941001307	11/01/2019
DEPICTION AND CREATION OF MODIFIED BIO-TOILET	Published	201841020766	04/06/2018
AUTOMATIC ALTITUDE COMMUTING WINDMILL FOR AN ATTUNING POWER GENERATION	Published	201841046531	10/12/2018
A DEVICE AND METHOD FOR SIMULTANEOUS	Published	201941007798	28/02/2019

MONITORING AND CONTROLLING EGG HATCHING SYSTEM			
A SENSOR FOR STRESS MEASUREMENT USING PHOTOPHELTHYS MOGRAPHY (PPG)	Published	201941011709	26/03/2019
MINI -JHANGRI MAKING MACHINE	Published	201941003712	30/01/2019
AERODYNAMIC DRAG REDUCTION OF A HATCH BACK CAR USING BASEBLEED	Published	3777/CHE/2010	31/07/2018
HYBRID SOLAR EGG INCUBATOR	Published	201841043434	19/11/2018
AN APPARATUS FOR MONITORING THE PHASE FAILURE AND OVERLOAD	Published	201841023898	27/06/2018
ROAD SYMBOLS DETECTOR	Published	201941001310	11/01/2019
<a href="#">View File</a>			

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
A study on kerf characteristics of hybrid aluminium 7075 metal matrix composites machined using abrasive water jet machining technology	Sasikumar K.S.K., Arulshri K.P., Ponappa K., Uthayakumar M.	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture	2018	14	Bannari Amman Institute of Technology	14
Extraction of nano cellulose fibers from the banana peel and bract for production	Harini K., Ramya K., Sukumar M.	Carbohydrate Polymers	2018	13	Bannari Amman Institute of Technology	13

of acetyl and lauroyl cellulose						
Sonochemical synthesis of graphene oxide sheets supported Cu <sub>2</sub> S nanodots for high sensitive electrochemical determination of caffeic acid in red wine and soft drinks	Chen T.-W., Rajaji U., Chen S.-M., Govindasamy M., Paul Selvin S.S., Manavalan S., Arumugam R.	Composites Part B: Engineering	2019	13	Bannari Amman Institute of Technology	13
Sonochemical synthesis of graphene oxide sheets supported Cu <sub>2</sub> S nanodots for high sensitive electrochemical determination of caffeic acid in red wine and soft drinks	Chen, Tse-Wei Rajaji, Umamaheswari Chen, Shen-Ming Govindasamy, Mani Selvin, S. Steplin Paul Manavalan, Shaktivel Arumugam, Rameshkumar	COMPOSITES PART B-ENGINEERING	2019	12	Bannari Amman Institute of Technology	12
Random forest for big data classification in the internet of things using optimal features	Lakshmanaprabu S.K., Shankar K., Ilayaraja M., Nasir A.W., Vijayakumar V., Chilamkurti N.	International Journal of Machine Learning and Cybernetics	2019	11	Bannari Amman Institute of Technology	11
Enhanced	Islam		2018	10	Bannari	10

Current Generation Using Mutualistic Interaction of Yeast-Bacterial Coculture in Dual Chamber Microbial Fuel Cell	M.A., Ethiraj B., Cheng C.K., Yousuf A., Thiruvendam S., Prasad R., Rahman Khan M.M.	Industrial and Engineering Chemistry Research			Amman Institute of Technology	
Evaluation of different crosslinking agents on hybrid biomimetic collagen-hydroxyapatite composites for regenerative medicine	Krishnakumar G.S., Gostynska N., Dapporto M., Campodoni E., Montesi M., Panseri S., Tampieri A., Kon E., Marcacci M., Sprio S., Sandri M.	International Journal of Biological Macromolecules	2018	10	Bannari Amman Institute of Technology	10
Influence of metal work function and incorporation of Sr atom on WO <sub>3</sub> thin films for MIS and MIM structured SBDS	Marnadu R., Chandrasekaran J., Raja M., Balaji M., Maruthamuthu S., Balraju P.	Superlattices and Microstructures	2018	10	Bannari Amman Institute of Technology	10
Early detection of lung cancer using wavelet feature descriptor and feed forward back propagation	Arulmurgan R., Anandakumar H.	Lecture Notes in Computational Vision and Biomechanics	2018	9	Bannari Amman Institute of Technology	9

neural networks classifier						
Enhanced production of biohydrogen from dairy waste activated sludge pre-treated using multi hydrolytic garbage enzyme complex and ultrasound-optimization	Arun C., Sivashanmugam P.	Energy Conversion and Management	2018	9	Bannari Amman Institute of Technology	9
<a href="#">View File</a>						

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
Optical and thermal characterization of double hydrogen bonded liquid crystals: Binary mixtures	Chandrasekar, G. Prabu, N. Pongali Sathya Mohan, M. L. N. Madhu	FERROELECTRICS	2018	22	2	Bannari Amman Institute of Technology
Investigations on smectic X and re-entrant smectic C orderings in hydrogen bonded ferroelectric liquid crystals	Kishor, Muchenedi Hari Mohan, M. L. N. Madhu	JOURNAL OF MOLECULAR LIQUIDS	2019	22	1	Bannari Amman Institute of Technology
Realization of memory	Kishor, Murthyenedi Hari	JOURNAL OF MOLECULAR	2018	22	1	Bannari Amman Institute



effect in smectic X phase	Mohan, M. L. N. Madhu	STRUCTURE				of Technology
CdS nanowires encapsulated liquid crystal in-plane switching of LCD device	Pal, Kaushik Abd Elkodous, M. Mohan, M. L. N. Madhu	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS	2018	22	Nil	Bannari Amman Institute of Technology
A detailed study of hydrogen bonded ferroelectric mesogens formed between alkyl and alkyloxy benzoic acids with carbamyl glutamic acid	Sangameswari, G. Prabu, N. Pongali Sathya Mohan, M. L. N. Madhu	LIQUID CRYSTALS	2018	22	Nil	Bannari Amman Institute of Technology
Calorimetric investigations of hydrogen-bonded liquid crystal binary mixtures	Chandrasekar, G. Prabu, N. Pongali Sathya Mohan, M. L. N. Madhu	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	2018	22	Nil	Bannari Amman Institute of Technology
Optical, thermal and electrical investigations in two homologous series of hydrogen bonded ferroelectric liquid crystals	Kishor, Muchenedi Hari Prabu, N. Pongali Sathya Mohan, M. L. N. Madhu	MOLECULAR CRYSTALS AND LIQUID CRYSTALS	2018	22	Nil	Bannari Amman Institute of Technology
Revealing the Self-Degradation Mechanisms	Gunasekaran R.K., Chinnadurai D., Selvaraj	ChemPhys Chem	2018	21	7	Bannari Amman Institute of Technology

in Methyllummonium Lead Iodide Perovskites in Dark and Vacuum	A.R., Rajendiran R., Senthil K., Prabakar K.					
Stabilization of cryptomelanin ?-MnO2 nanowires tunnels widths for enhanced electrochemical energy storage	Selvaraj A.R., Rajendiran R., Chinna durai D., Rajendra Kumar G., Kim H.-J., Senthil K., Prabakar K.	Electrochimica Acta	2018	21	4	Bannari Amman Institute of Technology
Structural and optical characterization of ZnS nanoparticles synthesized by low temperature solid-state method	Kannappan P., Dhanasekaran R.	International Journal of Recent Technology and Engineering	2019	21	Nil	Bannari Amman Institute of Technology
<a href="#">View File</a>						

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

Number of Faculty	International	National	State	Local
Presented papers	60	92	Nil	18
Attended/Seminars/Workshops	21	281	30	35
Resource persons	1	Nil	Nil	Nil
<a href="#">View File</a>				

#### 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)
BIT	DST FIST Thermal	M.Balaji	1180
BIT	(Gibberellic Acid Samples)	Dr.S.Kumar, Director/BT - Prithvi Agricare (P) Ltd, Bangalore	10000

BIT	TGA/DTA of two sample testing	PSR College of Engineering	708
Mr.S.Loganayagan	Tiruppur for Bitumen testing charges	Cibi Vasandan P, Unique Fibree,	7100
Dr.S.Ramakrishnan / Mr.S.Prakash	Concrete cube testing charges	Saravanan J Boopathi J, Sathyamangalam	600
BIT	TDS Professional charges	Amount transfer to Consultancy EEE Dept. - IMPS - P2A - 900616142774 - 919790003355 - Txn - Directly transfer to Axis Bank Principal A/c on 05.01.2019.	5000
BIT	Research	Best Corporation (P) Ltd, Tirupur	27000
Mr.E.Prakash	3D Printing Process	Mithun Kumar R, GCT, Cbe	500
BIT	Research	Francis Xavier Engineering College, Tirunelveli (Canara Bank, T.Veli Chq. No:637718, Dt:3.08.2018).	100000
BIT	Wear testing charges	Asian Engineering Pvt. Ltd., Cbe	1500
<a href="#">View File</a>			

### 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
TEXTILE TECHNOLOGY AND FASHION TECHNOLOGY	Educational Experience Program	New Zealand Delegates	5101000	20
<a href="#">View File</a>				

### 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
SWACHHTA PAKHWADA	NSS-BIT	2	50
BLOOD DONATION CAMP	NSS-BIT GOBI GH	2	88

COMBINED ANNUAL TRAINING CAMP	NCC - 2(TN)CTC	2	30
RDC SELECTION AT JAYENDRA COLLEGE	NCC - KOVAI GROUP	2	16
BLOOD DONATION CAMP	LEO CLUB	2	167
MEDICAL CAMP	LEO CLUB	1	50
A GUEST LECTURE ON "CAMPUS CONNECT PROGRAM"	Women Development Cell	2	200
A GUEST LECTURE ON "WOMEN EMPOWERMENT PROGRAM"	Women Development Cell	2	200
VOTERS DAY AWARENESS RALLY	YRC, BIT - SATHY MUNICIPALITY	2	125
ANTI PLASTIC CAMPAIGN AT BANNARI-THIMBAM GHAT ROAD	TN FOREST DEPARTMENT NATURE LOVERS TRUST, CHENNAI	2	120
<a href="#">View File</a>			

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
Overall Activity of the year 2018-19	Best NSS Unit	Anna University, Chennai	200
Regular blood donors	The district level blood donor's award	AIDS Control Society, Erode	200
Blood Donation Day	Appreciation Award	Tamil Nadu Blood Transplant Team	200
LEO CLUB EVENTS	EXCELLENCE AWARD	International Lions Club	150
NCC DDG APPRECIATION	AWARD OF EXCELLENCE Lt.Dr.KALIL RAHIMAN.M	CENTRAL GOVERNMENT	50
B CERTIFICATE	B CERTIFICATE 34 CADETS	CENTRAL GOVERNMENT	34
C CERTIFICATE	C CERTIFICATE 15 CADETS	CENTRAL GOVERNMENT	15
Voters Day Awareness Rally	YRC, BIT - Sathy Municipality	YRC	100
SAEINDIA Collegiate Club of BIT	Collegiate Club Certificate	SAEINIDA	100
SAEINDIA Collegiate Club of	Trekking Support	SAEINIDA Southern Section	100

BIT

[View File](#)

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-BIT	SWACHHTA PAKHWADA	2	50
SWACHH BHARATH	NSS-BIT	SWACHH BHARATH SUMMER INTERNSHIP	2	80
AWARNESS PROGRAM	NSS-BIT	UNNAT BHARAT ABHIYAN	2	120
AWARNESS PROGRAM	NSS-BIT	FLOOD RELIEF EVENT	2	60
SWACHH BHARATH	NCC - GOI	ANTI PLASTIC CUM SWACHH BHARATH ACTIVITIES	2	89
AWARNESS PROGRAM	NCC - 2(TN)CTC	COMBINED ANNUAL TRAINING CAMP	2	30
AWARNESS PROGRAM	LEO CLUB	ORGAN DONATION RALLY	2	147
AWARNESS PROGRAM	LEO CLUB	EYE CAMP	2	220
Awarness Program	Women Development Cell	PRENATAL NUTRITION, BIRTHING AND POSTPARTUM	2	100
Awarness Program	TN FOREST DEPARTMENT NATURE LOVERS TRUST, CHENNAI	ANTI PLASTIC CAMPAIGN AT BANNARI-THIMBAM GHAT ROAD	2	120

[View File](#)

### 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
Workshop on Molecular diagnostics for pathogenic bacteria III	Dr. Arunava Das	Bannari Amman Institute of Technology	2
Rapid detection of food borne pathogens II	Dr. Arunava Das	Bannari Amman Institute of Technology	1
Solar powred cooling plastic	V. sri saran G.M. Oorappan, S.vignesha	Bannari Amman Institute of	450

bags for flower vendors	waran	Technology	
Internship and Placement	Dr C Palanisamy	Bannari Amman Institute of Technology	1
SAE Trek	Deepankumar S	Bannari Amman Institute of Technology	2
SAE National Student Convention 2018- 2019	Deepankumar S	Bannari Amman Institute of Technology	2
Certified Trainer	Mr P Purusothaman	Bannari Amman Institute of Technology	365
Advanced material processing and characteristic	K.L.Senthil kumar, S.arun kumar	Bannari Amman Institute of Technology	2
Student Training	Students	Bannari Amman Institute of Technology	7
Expert Talk and Collaborative Research	Dr.M.Thirugnanasa mbandan	Bannari Amman Institute of Technology	7
<a href="#">View File</a>			

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
INDUSTRY RELATION PARTNERSHIP VISIT	INTERNSHIP	LITZ TECH	26/01/2019	28/01/2019	ABHIJITH
INDUSTRY RELATION PARTNERSHIP VISIT	INTERNSHIP	THREE STAR AIRTECH	18/01/2019	21/01/2019	KARTICK SREENIVASAN
INDUSTRY RELATION PARTNERSHIP VISIT	INTERNSHIP	ALPHA TOCOL, BENGALURU	10/06/2019	20/06/2019	KATHIRAVAN B
INDUSTRY RELATION PARTNERSHIP VISIT	INTERNSHIP	NSTI, APEX HITECH, BENGALURU	17/06/2019	21/06/2019	GOBINATH S
INDUSTRY RELATION	INTERNSHIP	HAL, BANGALORE	03/06/2019	22/06/2019	DHARANEEDHARAN P N

PARTNERSHIP VISIT					
INDUSTRY RELATION PARTNERSHIP VISIT	INTERNSHIP	AERONAUTICAL DEVELOPMENT ESTABLISHMENT	14/12/2018	14/01/2019	MASOOTH SHA
INDUSTRY RELATION PARTNERSHIP VISIT	INTERNSHIP	MOBITECH WIRELESS SOLUTION, ERODE	01/08/2018	31/08/2018	ANANTHI D
INDUSTRY RELATION PARTNERSHIP VISIT	INTERNSHIP	HB SEEDS	03/08/2018	01/09/2018	SINDHUJA M
INDUSTRY RELATION PARTNERSHIP VISIT	INTERNSHIP	RIVULIS IRRIGATION	20/12/2018	31/01/2019	RAJARAM M
<a href="#">View File</a>					

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
VAU TECHNOVATIONS LTD	28/03/2019	Project, Placement and Internship	22
ESCORTS LTD	11/04/2018	Training in the field of agriculture related domains	12
REAL ALIGNERS	09/07/2018	Project development, Placement and Industrial Visit	42
SAE INDIA SS	06/03/2019	Event, Paper presentation, Project Presentation	102
NAWAL ANALYTICS	06/05/2018	Internships and Placements	27
LEKHA WIRELESS SOLUTIONS PVT LIMITED BANGALORE	19/07/2018	Initiating Industrial Level Project works	7
MS ELECTRONIK INDUSTRIES	18/01/2018	Initiating Industrial Projects, Implementing and Marketing Automated Multiple Sensor Based ealy Elephant	4

		warning system in INDIA and Abroad	
PADMAVAHINI TRANSFORMER PVT. LTD	22/02/2018	Industrial Visit, Inplant Training, Workshop, Guest Lecture, Mini and Major Projects	122
FLUKE TECHNOLOGIES PVT LTD	28/11/2018	Placement, Training and RD	22
<a href="#">View File</a>			

## 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
4512	4484.17

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Video Centre	Newly Added
Seminar halls with ICT facilities	Newly Added
Laboratories	Newly Added
Classrooms with LCD facilities	Newly Added
Video Centre	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
<a href="#">View File</a>	

### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
CAMPS - in-house ERPsoftware	Fully	In House	2000

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	87229	34452000	4271	2588000	91500	37040000
Reference Books	2111	9673000	41	146000	2152	9819000
Journals	387	1732000	Nil	1732000	387	3464000
e- Journals	6000	7597000	Nil	7597000	6000	15194000



CD & Video	8191	Nil	94	Nil	8285	Nil
Others(s pecify)	418	15000	Nil	Nil	418	15000
No file uploaded.						

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
Mr Ramesh M	Aircraft Structures I	Institution LMS	18/05/2019
Mr G Sivaraj	Aerodynamics	Institution LMS	26/04/2019
Dr S Tamilselvi	Biochemistry	Institution LMS	16/11/2018
Dr V Sudarshana Deepa	Chemical Thermodynamics	Institution LMS	26/04/2019
Ms M Mahalakshmi	Concrete Technology	Institution LMS	06/05/2019
Mrs K V Kiruthikaa	Microprocessors and Microcontroller	Institution LMS	03/05/2019
Ms J P Shri Tharanya	Microprocessors and Microcontroller	Institution LMS	17/04/2019
Ms K Aarthi	Object Oriented Analysis and Design	Institution LMS	06/05/2019
Dr P Geetha	Discrete Mathematics	Institution LMS	17/04/2019
Mr P N R Jeevananthan	Spinning Technology II	Institution LMS	06/05/2019
<a href="#">View File</a>			

#### 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	2325	46	500	2	1	1	20	500	0
Added	930	0	500	0	0	0	0	500	0
Total	3255	46	1000	2	1	1	20	1000	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

<https://docs.bitsathy.ac.in/naac/ssr-cy-cle3/criterion4/4.3.4-video-recording-P1000777.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
1250	1126.19	1350	1326.07

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. • The equipment stock in the laboratory is listed in the stock register and it is maintained and audited.

3. Library • Day to day activities of the Library is governed by the Librarian and Assistants. • The overall monitoring of the Library is governed by a Library committee consisting of Principal, Professor In-charge of Library and Department Level Coordinators and Librarian.

4. Sports Complex The Physical Director of the Institute is in-charge of the sports complex and equipment. • The Physical Director supervises the Grounds man and staff assigned for ground, courts, 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). • Servers and desktop systems are checked for release of new updates and upgraded accordingly. • All computer systems are checked and antivirus is updated every 6 months. Lab assistants under the supervision of the System administrator maintain the Institute computers and accessories. • Through CAMPS (in-house ERP software) maintenance associated queries and problems are effectively solved in a speedy time by Software Development Cell (SDC). • Network Maintenance Cell (NMC) will take care of all kinds of Network related maintenance effectively.

6. Class Room The Institute has maintenance committee that oversees the maintenance of buildings, classrooms and laboratories. The maintenance committee is headed by Professor In-charge of Maintenance who in turn monitors the work of the Supervisor at the next level. • Adequate in-house staff are 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 Administrative officer as per the transport policy of Institute. • Transport fitness certification, maintenance and augmentation of vehicles are done on yearly basis. The Students and Faculty utilising the vehicle facility will be abided by the rules specified in the transport policy.

8. Campus Maintenance Campus Maintenance Department shall coordinate the maintenance activities of the Institute. Department Of Campus Maintenance Personnel assigned for maintenance shall follow the following instructions. • Prepare and maintain routine checklist and preventive maintenance schedule (Annexure I). • Perform routine checks and preventive

maintenance as scheduled through Google form. (Annexure II). Resource Allocation • The campus maintenance department shall identify and distribute the manpower under the selected supervisors and allocates the roles and responsibilities to complete the tasks assigned as per the schedule. • Responsibilities for maintaining equipment/facility shall be according to the Appendix I Maintenance Schedule and Services • Maintenance services are offered by campus

[www.bitsathy.ac.in](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	Friend of Friendless	145	1351700
Financial Support from Other Sources			
a) National	Government Scholarships,	3065	70703225
b) International	Nil	Nil	0

[View File](#)

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
International day of Yoga	21/06/2018	300	BIT Yoga Center
Remedial Coaching	15/04/2019	10	Department of Fashion Technology, Bannari Amman Institute of Technology
Training Program for Final year Students	01/12/2018	50	Top Freshers Technologies, Madurai
Training Program for Final year Students	12/09/2018	1000	My Slate, Coimbatore
Remedial Coaching	06/05/2019	606	Department of Physics -Bannari Amman Institute of Technology
Yoga world festival	25/08/2018	27	Guinness world record Chennai-Marina beach
Basic English and Communicative English training	25/07/2018	1558	Young India Film, Mount Road, Chennai, Department of Humanities-Bannari Amman

			Institute of Technology
Swami Vivekananda -125th Year Chicago Address	11/09/2018	65	KCT, Coimbatore
YYE course for first years	16/10/2018	870	YYE examination Experts
Personal Counselling session for students	06/06/2018	7081	All Class Advisors - Bannari Amman Institute of Technology
<a href="#">View File</a>			

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2018	Seminar on GRE	65	Nil	5	Nil
2018	Gate coaching class	90	Nil	6	Nil
2018	CAT Seminar	7	Nil	3	Nil
2019	Training on IELTS, TOEFL	76	Nil	12	Nil
2019	Training Program for final year students	Nil	1363	Nil	1336
2018	Higher Education opportunities	Nil	270	Nil	90
<a href="#">View File</a>					

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
1	1	2

## 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

58	2534	686	150	3580	650
<a href="#">View File</a>					

5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2018	1	B.Tech	Textile Technology	Sardar Vallabai Patel Textile	M.B.A
2018	1	B.Tech	Information Technology	Anna University	M.E
2018	1	B.Tech	Fashion Technology	KUMARAGURU COLLEGE OF TECHNOLOGY	M.Tech
2018	1	B.E	Electronics and Instrumentation Engineering	University of Leicester	M.S
2018	1	B.E	Electronics and Communication Engineering	PSG College of Technology Coimbatore	M.Tech
2018	1	B.E	Electrical and Electronics Engineering	NIT,Trichy	M.E
2018	1	B.E	Computer Science Engineering	Bannari Amman Institute of Technology	M.E
2018	1	B.E	Civil Engineering	Anna University	M.Tech
2018	1	B.Tech	Bio Technology	PSG College of Technology Coimbatore	M.Tech, Biotechnology
2018	1	B.E.	Automobile Engineering	Govt College of Engineering, Salem	M.E. Thermal Engineering
<a href="#">View File</a>					

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

Items	Number of students selected/ qualifying
-------	---

GATE	6
GMAT	2
CAT	1
GRE	5
TOFEL	2
Any Other	75
<a href="#">View File</a>	

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

Activity	Level	Number of Participants
Staff Cricket Tournament - BIT Trophy	College	66
Winter Fitness Camp	College	55
Anna University Zone - 12 Inter Collegiate Men Women Athletic Meet	Intercollegiate	37
Sathy zonal school level Athletic meet (Boys Girls), Ball Badminton, Carrom, Football (Boys Girls) Volleyball (Boys), Volleyball (Boys), Table Tennis ,Badminton (Boys) tournaments	Zonal	252
Fresher's Meet 2018	College	1558
Selection Trial for College teams	College	231
Anna University Zone - 12 Inter Collegiate Men Basketball Tournament	Zonal	17
10th CENTIES Championship 2019 - Chess (Men Women ), Tennis,Handball Tournament	Zonal	49
23rd Annual Sports Day Events	College	7081
Anna University, Chennai Inter zone Men Tennis Tournament.	Zonal	15
<a href="#">View File</a>		

#### 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	2nd	National	1	Nil	152TX124	MOHAN

	Place in Volley ball-National Integration Camp					RAJ J N
2018	1st place in Volley Ball Competition	National	1	Nil	161MC153	Meiyarasan.C
2018	2nd place in Athletics -Army Attachment camp, Engineers Regiment	National	2	Nil	151EI149	Nethajit
2018	4th place in Athletics Competition-Army Attachment camp, Engineers Regiment	National	1	Nil	161EE164	Nishanth M
2018	Best Cadet	National	1	Nil	171CS105	M Abinash
2018	Silver medal in First All India open National taekwondo	National	Nil	1	172FD114	S.Keerthana
2018	Winner in IPL Auction	National	Nil	1	151AU135	Praveen R
2018	Winner in Treasure Hunt	National	Nil	1	161AU138, 161AU109, 161AU149	Senthil Raja M Hema Chandran Vignesh U
2018	Winner in Photography	National	Nil	1	182TX121 & 182TX116	Krithick K Kavin M
<a href="#">View File</a>						

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 student as secretary with a group of office bearers as specified in the institution guidelines. The students' association plans and coordinates events

like Guest lectures, workshops, technical symposiums, technical events, placement and training programmes 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, inplant training, student placement, offering one credit courses, 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 feedbacks on day to day activities. The Antiragging 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 above, each department has student placement coordinators to work with the placement team of 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 at various cities nationally and internationally with office bearers and Executive Committee members to drive the Chapter. The following Alumni Chapters were formed and inaugurated. In addition, recently, we have started UK Chapter. 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 for 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 meeting (yearly twice) to review the progress of the Chapters and Annual General Body meeting (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 member of alumni and executive committee members of the alumni association. The association is



issuing Alumni ID card to the members of Alumni. As an alumnus of BIT, the members can use this card to get access into 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 in abroad and (vii) delivering the Guest lectures, seminars, One credit courses in 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 in below poverty line.

5.4.2 – No. of registered Alumni:

20396

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

274200

5.4.4 – Meetings/activities organized by Alumni Association :

11

## **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. Dean PDS suggested to introduce outcome based experiments in the laboratories replacing the existing list of experiments set up. The basic goal of older laboratory system was to present the knowledge and skills of the faculty to the students, and to provide them with an environment in which to learn, with little attention to whether or not any student ever learns any of the material. By introducing outcome based experiments, the student can clearly focus and organize their learning capabilities related to the outcome of each and every experiment he/she is doing in the laboratory. Also, the outcome of each laboratory course is a project, process or product relevant to that course. This proposal was discussed in the meetings with the lab handling faculty and advantages and disadvantages of implementing outcome based laboratory was discussed and finalized. The decision of implementing outcome based experiments was suggested by Dean PDS in the Academic Council Meeting for appropriate implementation. 2.SIG aims to bring like-minded researchers from across various disciplines to work together to promote inter-disciplinary research. The concept of Special Interest Groups was initiated in Bannari Amman Institute of Technology in 2017 with a focus on addressing social, industrial and environment challenges through extensive core and multi-disciplinary research activities. The research activities shall include supervision, execution of new researches (both basic and applied), inter-disciplinary and multi-disciplinary research, academic and research collaborations with national and international institutions/Universities, Government /private industry, consultancy assignments and Government Funded / Private Funded projects that might result in the development of new or existing products, processes or theories. There are 88 SIGs incepted with focus on recent advanced subjects such as Computational Intelligence, Machine learning, Digital image processing, Liquid crystals for optical applications, Signal processing, Functional Foods and nutraceuticals, Bioprospecting Diagnostics and Geotechnical Engineering, etc. The SIGs are intended to carry out the tasks and targets that are set by

the Institute, through collaborative efforts of their members. Each SIG shall be constituted with a minimum of 3 and maximum of 7 members from across the departments and domains specializations. Seed money of not more than 5 Lakhs is granted to each SIG based on the recommendation of their strategic research plans and committed deliverables. The target per year is formulated and circulated to the SIG Coordinators and members after the deliberation with faculty members. All Faculty including Principal, Deans, HoDs are members of SIG and participate effectively in the development of the institution in research activities.

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	The faculty of the institution interact with industries during the visit to industries.
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 ambience conducive for the teaching and learning process with the support of 89,000 volumes of text and reference books with 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 staffs. All the classrooms were provided with ICT facility which includes LCD projector, Computer system with Internet connection. Established 27 applied and special labs with required facilities. Provision for Wi-Fi facility in all the hostels for use of the e-learning resources. Setting up of the Lightening Arrester system to save the high end instruments from lightening. Bringing to use the newly constructed vehicle parking shed

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. The 68 Patents are filed and 625 papers are published by faculty in refereed journals in 2018-19. A grant worth Rs.232.45Lakhs is received from funding agencies and Rs.44.13Lakhs is generated through consultancy services in 2018-19. The journal papers, project reports are checked for plagiarism through Turnitin software.

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

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: • 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

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

E-governance area

Details

Planning and Development	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
Administration	The entire BIT campus administration that involves students and staff is supported by the CampusStack e-governance System. Student leave management, staff leave management, payroll management and profile management have been included in the e-governance administration.
Finance and Accounts	Comprehensive accounting software including ledger management module, cost center management module, journal transaction management and Bills Payable module is implemented.
Student Admission and Support	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
Examination	The entire academic process including course registration, lecture plans, time table generation, student attendance management, mark entry, 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	Shoukath Ali K	mmWave MIMO and Filter Bank Multi-carrier Technologies for 5G Networks by IIT-Kanpur	MSRIT Bangalore	26600

2019	N Baranidharan	IEEE Region 10 Humanitarian Technology Conference (IEEE RIO HTC 2018)	Srilanka	15000
2019	V Chandran	FDP on Advanced DSP Techniques	IIT Kharagpur	9000
2019	Dr. M. Vasudevan	GIAN courseBi oremediation for environmental Sustainability at NIT K Surathkal	DST_MHRD	3000
2018	Dr V Sathish	Gordon Research Conference, Stone hill College, USA	Gordon Society,USA	45000
2018	R. Balamurugan	Indian Karting Race (GO KART 2019)	Go Kart, Kolhapur	15500
2018	Dr.R.Divyabha rathi	Sustainable Energy Resources, Materials and Technologies	SSN College of engineering	5000
2018	Ashok Suraj B S	International Conference on Role of Agricultural Engineering Towards Global Food Security	Institution of engineers(I NDIA)	4189
2018	Naveen R	International Conference on Nano Science and Technology, Chennai	SRM ST	2000
<a href="#">View File</a>				

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)
2018	Workshop on Geotech	Nil	19/07/2018	20/07/2018	15	Nil

	nical Engineering Aspects in Deep Excavations and Foundations					
2018	One Day Workshop on Recent Trends and Advancements in Automotive Technology	Nil	15/09/2018	15/09/2018	4	Nil
2018	Faculty Development Program for Chemistry	Nil	25/06/2018	26/06/2018	30	Nil
2018	FDP on Mechanics of Materials	Nil	10/12/2018	16/12/2018	37	Nil
2018	Organised Advanced Data Analytics -One week FDP sponsored by AICTE Margdarshan scheme	Nil	03/12/2018	08/12/2018	50	Nil
2019	Guest Lecture on Machine Learning in Hadoop	Nil	05/01/2019	05/01/2019	7	Nil
2019	Guest Lecture on Multimedia and Animation	Nil	09/01/2019	09/01/2019	6	Nil
2019	Guest Lecture on Machine Learning in HADOOP	Nil	08/03/2019	09/03/2019	30	Nil
2019	Workshop on PROGRAMMING USING R	Nil	13/03/2019	15/03/2019	50	Nil

2019	Two Days workshop on Simulation and Execution of real time Industrial Drives using MOVITOOLS - Motion Studio operating software	Nil	05/04/2019	06/04/2019	18	Nil
------	---	-----	------------	------------	----	-----

[View File](#)

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

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
International Conference on advance in computing and communication Engineering	2	04/04/2019	06/04/2019	3
FDP on Cloud infrastructure services and Blockchain Technologies	17	04/02/2019	09/02/2019	6
Advanced computing in civil engineering systems	1	25/02/2019	01/03/2019	5
One Week GIAN Course on Advances in Combustion Modelling	1	04/03/2019	09/03/2019	6
Faculty Development Programme	1	29/04/2019	03/05/2019	7
National conference on diabetes mellitus prediction using machine learning	1	25/10/2018	26/10/2018	2



One Week National Level Faculty Development programme on Advanced data analytics	1	03/12/2018	08/12/2018	6
3rd International Conference on Inventive Computation Technologies	1	15/11/2018	16/11/2018	2
International Conference on Intelligent Computing and Communication for Smart World	1	14/12/2018	15/12/2018	2
National Conference on Recent Trends in Ubiquitous Computing and Communication Technology	3	25/10/2018	26/10/2018	2

[View File](#)

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
Nil	74	Nil	57

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> <li>• Registration Fee, TA/DA for attending conferences</li> <li>• Incentives for Funded Projects 2.5 of the amount sanctioned from management</li> <li>• 60/70 of revenue sharing in consultancy projects</li> <li>• TA/DA for presenting projects for funding</li> <li>• Long Service Allowance(LSA) for faculty working for more than 10 years</li> <li>• Reimbursement of NPTEL exam fees for faculty who successfully certify</li> <li>• Transport facilities to visit industries for</li> </ul>	<ul style="list-style-type: none"> <li>• Admission to the wards of the faculty in the Schools (State Board CBSE)</li> <li>• Admission to the wards of the faculty in the College</li> <li>• Soft loan (without interest) to needy staff</li> <li>• Day-care centre for the wards of faculty</li> <li>• Contribution for Employees Provident Fund</li> <li>• Long Service Allowance(LSA) for faculty working for more than 10 years</li> <li>• Maternity leave scheme for female faculty</li> <li>• Group Insurance</li> <li>• Rent-free fully furnished quarters for</li> </ul>	<ul style="list-style-type: none"> <li>• Wifi Facility in hostel</li> <li>• Gym separately for girls and boys</li> <li>• Registration Fee, TA/DA for attending conferences</li> </ul>

consultancy assignments •  
 100 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 •  
 Group Insurance •  
 Gratuity Scheme •  
 Admission to the wards of  
 the faculty in the  
 Schools (State Board  
 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

staff • Ambulance  
 Facility • Festival  
 advance for needy staff

#### 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
1. BEST CORPORATION, TIRUPUR 2. Advanced Composites for Orthopedic Implants 3. Board of Reseach in Nuclear Sciences- Department of Atomic energy (BRNS-DAE)	2898344	Award, Consultancy

4. Science Engineering Research Board 5. An Innovational method to Produce Aluminium from Me

[View File](#)

6.4.3 – Total corpus fund generated

100000000

### 6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Null	Yes	Dean Academics
Administrative	No	Null	Yes	Dean PDS

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

Information is sent to parents regarding attendance of students and failures in the exams through e-Governance system Information desk is available in the institution to cater the queries of the parents Periodic parent teacher meetings are conducted in the departments

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)

Academic Domain • Implementation of CBCS since 2015 with OBE template • Scientific approach in curriculum design is done through 2D RBT with Systematic approach • incorporated in curriculum as learner centric design. • MoU with International Universities • Introduction of open electives, add-on, fast track and value added courses in the curriculum from • 2015 onwards • Add/drop facility in courses implemented • 2 UG and 1 PG programmes were introduced • Product development through mini-project and project • Increase in intake of NRI students • Additional security features incorporated in grade sheet issued to students • In-house ERP (CAMPS) for processing examination related information • E-hall ticket issued to students • CO-PO attainment is calculated using in-house software • Online feedback system implemented • Seed money upto Rs.5 Lakhs is provided for SIG • Increase in students participation in national and inter-national events • Strategic Plan is revised and implemented • Open book tests conducted to enhance higher order thinking • Exam wrapper implemented since 2017 • Credit transfer facility for students who have completed online courses (SWAYAM/NPTEL) since 2016 • Video lectures by faculty to enable offline learning for students • 88 Special Interest Groups established • Students are asked to prepare short videos to enhance their communication skills and social networking Administration Domain • Decentralization of powers • Open office system implemented • DDP implemented • SIG implemented • Facebook workplace ids created for all students and faculty to share daily activities • Professional development programs for teaching and non-teaching staff are conducted • Execution Time Optimization and Code optimization in camps is enhanced • Faculty events recorded using activity id in camps • Dynamic data linked to the institute website through in-house

software • grand mobile application development workshop was organised where 1000 apps were developed in a day • Administrative calendar developed

6.5.5 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
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
2018	5S Internal audit Steering committee meeting	05/07/2018	05/07/2018	05/07/2018	30
2018	Research interaction- Dr. Sandeep Kumar, Professor, Raman Research Institute, Bangalore	11/06/2018	11/06/2018	11/06/2018	31
2018	Workshop on "Review paper writing"- Dr .S.Jegadheeswaran , Professor in-charge, RD	23/07/2018	23/07/2018	23/07/2018	22
2018	PlagScan User ID creation for students_ Training session for Project Coordinators" - Dr.S.Jegadheeswaran , Professor in-charge, RD	27/07/2018	27/07/2018	27/07/2018	40
2018	Research Advisory Board Meeting- Dr. S.Karthikeyan, Former Group	01/12/2018	01/12/2018	01/12/2018	9

Director,  
DRDO,  
Bengaluru, D  
r.S.D.Sudars  
han A BB  
Ability  
Innovation  
Centre,  
Bengaluru,  
Dr.E.Anil  
Kumar,  
Indian  
Institute of  
Technology  
Tirupati Dr.  
M Thirumoort  
hi, Advanced  
Systems Lab

2019	API Audit	18/01/2019	18/01/2019	19/01/2019	570
2019	5S Internal audit Steering committee meeting	05/01/2019	05/01/2019	05/01/2019	29
2019	Research interaction - Dr. Syed Shahabuddin, Sunway University, Malaysia.	09/03/2019	09/03/2019	09/03/2019	15
2019	Web of science - scientific citation indexing source- Mr S Aamir Hussain Intellectual property sciences , Acropolis , Clarivate Analytics	12/03/2019	12/03/2019	12/03/2019	21
2019	Nano-biote chnology: Ap plications, Recent Devel opments, Future prospects- Dr.Mukesh Doble, Professor	13/03/2019	13/03/2019	14/03/2019	45

(Emeritus),  
IIT Madras

[View File](#)

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Women Empowerment Program	20/12/2018	20/12/2018	133	167
Prenatal Nutrition, Birthing and Postpartum	20/02/2019	20/02/2019	156	Nil
Inauguration of new Senior Wing NCC batalion	19/02/2019	19/02/2019	37	55
Seminar on awareness about Internal Complaints Committee	28/06/2018	28/06/2018	491	232
8th International Women's Day	08/03/2019	08/03/2019	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

31

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	1
Provision for lift	Yes	1
Ramp/Rails	Yes	1
Braille Software/facilities	Yes	1
Rest Rooms	Yes	1
Scribes for examination	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
2018	1	1	20/09/2018	1	5 DAY TRIBAL VILLAGE UPLIFT CAMP	the various field work and school were conducted	45
2018	1	1	26/07/2018	1	SWACHH BHARAT -P UDHUVADAV ALLI AND VEDARNAGAR	The volunteers spoke about the open toilet defecation and distributed pamphlets to the village people	80
2018	1	1	28/11/2018	1	Nilavembu Kasayam Distribution	Nilavembu Kasayam Distribution to Civil workers	100
2018	1	1	08/07/2019	1	ORPHANAGE EVENT	Various field work event was conducted and the events conducted to the children present in the orphanage	25
2018	1	1	15/12/2018	1	RALLY EVENT	In the rally some quotes about cleanliness and surroundings,	150

						dengue fever was conveyed to the people	
2018	1	1	01/07/2018	1	SWACHH BHARATH SUMMER INTERNSHIP CAMPAIGN	conducted a painting event and the Swachh Bharath summer internship campaign	47
2018	1	1	22/08/2018	1	UBA SURVEY	The problems in the village faced by the people and possible solutions suggested by them were also noted. Awareness about open toilet defecation were also given to the village people.	50
2018	1	1	16/09/2018	1	Anti-plastic campaign in Bhavani sagar	60 volunteers participated in this program	60
2018	1	1	22/12/2018	1	Anti-plastic campaign cum Swatchh Bharath activity	89 cadets, Associate NCC Officer and caretaker, Officials of Special	89



Task Force and Forest department, Sathyamangalam took part in the campaign

[View File](#)

#### 7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
BIT Calender	01/06/2018	Code of Conduct handbook is provided to all the students,staffs and stake holders for each academic year.
Monthly News	01/06/2018	Student achievements through participation in competitions ,sports and extra curricular activities will be published as news on monthly basis and circulated to all the students,faculty members ,parents and stakeholders.
Daily News	01/06/2018	Faculty /student activities will be published as news on daily basis and circulated to all the students,faculty members ,parents and stakeholders.

#### 7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Sevayatra 2k19	22/07/2018	21/01/2019	150
5 Days Tribal Village Uplift Camp	20/09/2018	20/09/2018	30
Seminar On International Tolerance Day	16/11/2018	16/11/2018	60
Orphanage Visit	07/08/2018	07/08/2018	15
National Literacy Mission -Aid India	07/08/2018	07/08/2018	50
Summer Internship-Survey	22/07/2018	22/07/2018	150
International Yoga Day	21/06/2018	21/06/2018	40

Ecological Festival Of Western Ghats	01/02/2019	01/02/2019	12
Cancer Day Awareness	02/04/2019	02/04/2019	68
Road Safety Awareness Program	07/02/2019	07/02/2019	44
<a href="#">View File</a>			

#### 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-31 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 waste water 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

Following are the best practices followed in our Institution

- E-Governance Software - In house ERP(CAMPS)
- Skill Development Program
- Social Relevant Projects
- Exam Wrapper
- Organic Farming
- Competitive Exam Centre
- Facilitation for Patent filing
- Unveiling Students Creativity
- Daily Challenge - Problem Solving (Hacker rank)
- Budbringer - Newspaper Weekly Digest
- FSSAI and 5S certification for Boys/Girls Hostel food

1 Title of the practice: E-Governance Software -Inhouse ERP(CAMPS)

1.1 The context that required the initiation of the practice (100 - 120 words) Maintaining the records for all the academic activities from the student entry to campus still exit is a tedious process. Documents such as mark sheets, fee details and personal details should be updated if maintained through hard copies. This will create more records and in turn very difficult for someone to search the required details. Files for each student /faculty should be maintained. As a result, bunch of files will occupy the space.

1.2. Objectives of the practice (50 - 60 words)

- To develop in house ERP (CAMPS)portal for all the academic and management activities in order to implement paper less office.
- To Maintain all the records belonging to students and faculty members in a confidential manner

1.2 The Practice (250 - 300 words) Software Development Cell of BIT takes care of development and maintenance of CampusStack (code named camps), an integrated information management system 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 scheduling, result processing and grade sheets management) - Library Management - Documentation Management and Analytics. CampusStack Promotes Open Standards using open source technologies to build INTEGRATED Information Management System to provide the best experience for faculty and students in an academic organization.

1.4. Obstacles faced if any and strategies adopted to overcome them (150 - 200 words) Private cloud is required to manage the large volume of data

1.5. Strategies to overcome:

- College is upholding a private data centre for maintain the camps software
- Employees are appointed for Software Development cell separately for software maintenance and upgradation process.

1.6. Impact of the practice (100 - 120 words)

- Total organization is working with paperless office to maintain the records.
- Any record can be retrieved using the authentication (Roll number) of the student.
- All the faculty records are maintained confidentially.
- Faculty members can

apply leave, view the salary and tax paid and avail for other facilities like vacation through the software. • Faculty members can submit the course related documents, track student attendance and submit the internal marks. 1.7.

Resources required Data Centre, Employees with Open CV skill. 2 Title of the practice: Skill Development Program 2.1 The context that required the initiation of the practice (100 - 120 words) Almost four decades, the focus of the education system was to impart knowledge for graduates rather than to improve their skills. The technical engineering syllabus was designed accordingly so that students gain more of theoretical knowledge when compared to practical knowledge. This state existed in laboratories as well. The students attend 650 contact hours in a semester on the coverage of syllabus as against 350 hours mandated by syllabus. Thus, skill deficiency prevailed among engineering graduates which is a national problem. The graduates find it difficult to be placed in companies since they lack in practical skills. The industry requires practical skills with supporting theoretical knowledge in their concerned field. Understanding the need of the hour, and to prepare ready-for-industry graduates, the Skill Development Program was initiated at Bannari Amman Institute of Technology from 2018 batch onwards. 2.2. Objectives of the practice (50 - 60 words) Skill is a kind of knowledge that requires ability, critical knowledge, creativity, practice and experience to perform a job successfully. Specific skill set areas include human relations, research and planning, accounting, leadership, management and computer skills. Acquiring the skill set will help the students to acquire jobs matching their skills to their required profession, or enhance the skill set for further career progression. 2.3 The Practice (250 - 300 words) After the introduction of Skill Development program, the timetable has been revised and optimized to 350 contact hours of theoretical classes and 300 hours has been earmarked to newly designed skill development training. The skills required in the industry have been identified and grouped and the syllabus is framed accordingly for each branch of study for the first four semesters. The grouping is a gradual progression from simple to high end levels. Besides, the prerequisite knowledge, skill levels have been taken into account while tabulating the skills. The laboratory experiments are designed to improve their skills and the students will be assessed on the effective use of the skills. Detailed compendiums of experiments that are necessary to impart these skills with detailed protocols have been developed. This becomes a good source for reference to faculty members. This protocol will help in uniform compliance by all faculty members. Experiments and detailed protocols have been developed to assess the acquisition of skills by the students at the end of each semester. To have a uniform pattern in the implementation of skill set, each department has prepared a 'source book for skills'. The skill set syllabus is designed to meet all the skills expected by the industry. 2.4. Obstacles faced if any and strategies adopted to overcome them (150 - 200 words) Obstacles that we overcame are the difficulty to meet the exact requirement the industry needs from graduates, to create infrastructure for practicing the skill training sessions for all students and to employ resource persons from all domain areas to train the students. 2.5. Strategies to overcome: Internal training sessions are arranged for faculty members. 2.6. Impact of the practice (100 - 120 words) The students attain knowledge in their core subjects and are skilled in practical knowledge to compete with any kind of jobs in their respective field. 2.7. Resources required Resources such as industry trained skilled persons to train engineering students, laboratory facilities for assembling, dismantling and testing of equipment's, laboratory facilities for designing, fabricating and manufacturing of engineering products, preparation of manuals for each skill training program and to standardize the world skills setup in the campus for executing the skill training program were required.

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/aqar/7.2\\_BEST\\_PRACTICES.pdf](https://docs.bitsathy.ac.in/naac/aqar/7.2_BEST_PRACTICES.pdf)

### 7.3 – Institutional Distinctiveness

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

Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust Describe the institutional performance in one area distinctive to its vision, priority and thrust within a maximum of 1000 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 32 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 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. 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, 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. List of Basics and Applied Labs 1. App Development Cell 2. UUV Lab 3. Sensors Instrumentation 4. Next Generation Networks Research Lab 5. Electrical Product Development Lab 6. Data Science Lab 7. Embedded Systems Lab 8. Software Hackathon Lab 9. Hardware Hackathon Lab 10. UAV Lab 11. Electronic Product Development Laboratory 12. Augmented Reality and Virtual Reality 13. Industrial Automation Lab 14. Modeling And Prototyping Lab 15. World Skills Training Centre 16. Cloud Computing Lab 17. IoT Lab 18. Communication Protocol Lab 19. Drives and Actuators Lab 20. Energy Storage and Conversion Lab 21. Manufacturing and Fabrication Lab 22. Programming Lab 23. Vision Engineering Lab 24. Process Circuit/Controllers 25. Image Processing 26. Next Generation Networking 27. Opensource 28. 5G Lab 29. Computer Vision 30. Bio-prospecting Lab 31. Micro prototyping Lab 32. Robotics Lab Outcome from Basics and Applied Labs: Students participation in National /International events count suddenly raised after the initiation of Basics and Applied Labs. More than 100 training sessions were organized by the special labs for providing additional training in the advanced topics. Hence the students actively participated in 128 competitions and received cash prizes and medals. In addition, the faculty members leading the special labs are motivated to do consultancy projects by collaborating with industries.

Provide the weblink of the institution

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

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

1. To start new programmes to cater the needs of latest developments 2. To set up more special and applied labs 3. To have collaborative research arrangement 4. To promote startups in the Institution

