Bapuji Educational Association (Regd.)

Bapuji Institute of Engineering and Technology

Post Box No.325, Shamanur Road, Davangere – 577004,
Karnataka, India
Year of Establishment - 1979
(Affiliated to Visvesvaraya Technological University, Belagavi
Approved by AICTE, New Delhi

Estd: 1958

Estd: 1979

ANNUAL QUALITY ASSURANCE REPORT (AQAR)
2017-18
Submitted to

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission
P. O. Box. No. 1075, Opp:
NLSIU, Nagarbhavi, Bengaluru - 560 072 India

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Composition of IQAC

Sl. No.	Name	Designation
1.	Dr.S.Subrahmanya Swamy, Principal	Chairman
2.	Prof. Y.Vrushabhendrappa, Director	Member
3.	Dr.K.Murugesh Babu, Dean, Public Relations	IQAC Coordinator
4.	Dr. Kanakuppi Sadashivappa, Dean, Academics	Member
5.	Dr.H.B.Aravinda, Dean, Student Affairs	Member
6.	Dr.B.E.Rangaswamy, Dean, R&D	Member
7.	Dr.S.Kumarappa, Dean, Examination	Member
8.	Dr.M.S.Nagaraj, Dean, Placement	Member
9.	Dr. Nirmala, HOD, CS&E	Member
10.	Dr.Kotturu Shettar, HOD, Mechanical, BVB College of Engg., Hubli	External Member (Academics)
11.	Dr. Kamoji, HOD, Mechanical, KLE College of Engg., Belgaum	External Member (Academics)
12.	Mr. Vageesh K Patil, General Electric, Bangalore	External Member (Industry)
13.	Mr. Halaswamy, Magod Lasers, Bangalore	External Member (Alumni)

The Annual Quality Assurance Report (AQAR) of the IQAC

Part – A

Data of the Institution

1. Name of the Institution   BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY

- Name of the Head of the institution   : Dr.S.Subrahmanya Swamy

- Designation   : Principal

- Does the institution function from own campus: YES

- Phone no./Alternate phone no.   : 08192-221461, 08192-220938

- Mobile no.   : 9880410170

- Registered e-mail   : principal@bietdvg.edu

- Alternate e-mail : coordinator_iqac@bietdvg.edu
- Address   : Post Box No.325, Shamanur Road, Davangere - 577004

- City/Town   : Davangere

- State/UT   : Karnataka

- Pin Code   : 577004

2. Institutional status:
- Affiliated / Constituent   : Affiliated
- Type of Institution: Co-education/Men/Women   : Coeducation
- Location : Rural/Semi-urban/Urban   : Urban
- Financial Status: Grants-in aid/ UGC 2f and 12 (B)/ Self financing: Self Financing

- Name of the Affiliating University   : Visvesvaraya Technological University
- Name of the IQAC Co-ordinator   : Dr.K.Murugesh Babu
- Phone no.   : 08192-221461 (Ext: 316)

  Alternate phone no.   : 08192-220938

- Mobile   : 9844116813

- IQAC e-mail address   : coordinator_iqac@bietdvg.edu

- Alternate Email address   : principal@bietdvg.edu

3. Website address: www.bietdvg.edu
   Web-link of the AQAR: (Previous Academic Year): 2017-18
   http://www.bietdvg.edu/NAAC/AQAR_2017-18.doc

4. Whether Academic Calendar prepared during the year?

Yes/No….., if yes, whether it is uploaded in the Institutional website: YES

Weblink: http://www.bietdvg.edu/academics/cal_2018

5. Accreditation Details:

Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1st	A	3.10	2017	from: 27-11-2017 to: 26-11-2022
2nd				from: to:
3rd				from: to:
4th				from: to:
5th				from: to:

6. Date of Establishment of IQAC: DD/MM/YYYY:

7. Internal Quality Assurance System

7.1 Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & duration	Number of participants/beneficiaries
1. Regular Meeting of IQAC	01-06-2018 22-09-2018	19 08
2. Academic Administrative Audit	28-09-2018 to 16-10-2018	Academic audit meetings were held in all the departments to inspect the academic activities.
3. Participation in NIRF	2017	
4. NBA Preparations	Currently 5 departments are preparing to go for NBA accreditation	5 Departments

> *Note: Some Quality Assurance initiatives of the institution are:*
> *(Indicative list)*
> - *Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback from all stakeholders collected, analysed and used for improvements*
> - *Academic Administrative Audit (AAA) conducted and its follow up action*
> - *Participation in NIRF*
> - *ISO Certification*
> - *NBA etc.*
> - *Any other Quality Audit*

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

Institution/ Department/Faculty	Scheme	Funding agency	Year of award with duration	Amount (Rs.in Lakhs)
Dr.Manjunath N.S (Dept. of Bio	Phages as Natural Nano-	VGST Dept.of	2014-15 (for 3 Years)	Total grant:

Technology)	Medicines to Target superbugs under Centers of Innovative Science &Engg.Education (CISEE)	IT,BT, and S&T, Govt.of Karnataka	2017-18	30.0 10.0
Textile Technology	Centre of Excellence (Under New Textile Policy)	Dept.of Handloom and Textiles Govt.of Karnataka	2017	Rs.50.00
CS & E	VGST (K-FIST-II)	VGST	2015- 2018	Rs. 40.00
CS & E	KSCST	State Government	2017 (1Year)	Rs. 0.04
CS & E	VTU	University	2018 (1 Year)	Rs. 0.04
IS&E		KSCST	2017-18 (6 Months)	
IS&E		KSCST	2017-18 (6 Months)	
IS&E		VTU	2017-18 (6 Months)	
IS&E		VTU	2017-18 (6 Months)	
Dr. C B Suresh	Student project	KSCST	2018	Rs. 0.06
Dr. Sharan A S	Student project	KSCST	2018	0.06

9. Whether composition of IQAC as per latest NAAC guidelines: Yes/No: YES

*upload latest notification of formation of IQAC

10. No. of IQAC meetings held during the year: TWO
The minutes of IQAC meeting and compliance to the decisions have been uploaded on the institutional website.......
Yes/No YES

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?   Yes   No   NO

If yes, mention the amount: Year:

12. Significant contributions made by IQAC during the current year (maximum five bullets)
  * Regular academic audit/inspection of all the departments to enhance the quality of teaching-learning process
  * Technical seminar and workshops organised under IQAC in many departments
  * 5 Departments are preparing to apply for NBA accreditation
  * Organised 41st Series of KSCST Exhibition/Seminar for showcasing the final year engineering projects

* Technical talks and expert lectures arranged in many departments for enhancing the quality of students and teachers.

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

Plan of Action	Achievements/Outcomes
1. To conduct Internal IQAC Audit and Internal Academic Audit for all the departments and other Cells and Clubs for the effective functioning.	Systematic examination of a quality system was carried out for all departments by an internal quality auditor and an audit team.
2. A common and specific format may be designed to collect the feedback from different sectors of people associated with the institution.	Measures were taken to frame a common template to acquire the feedback of - Stakeholders feedback - Parents Feedback - Employers` Feedback (About the Alumni) - Recruiters` Feedback (on students interview performance)
3. To increase the students participation in various competitive examinations	Students were given counselling to improve their performance in competitive examinations like GATE, UPSC, TNPSC, State/Central Govt Banking Sector Exams, etc,.

14. Whether the AQAR was placed before statutory body?   Yes /No: **YES**
Name of the Statutory body: 1. Governing Body/Management 2. IQAC
Date of meeting(s): 30-12-2018

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning?
Yes/No: No   Date:

16. Whether institutional data submitted to AISHE: Yes/No: YES
Year: 2017-18   Date of Submission: 27-02-2018
2018-19   Report will be submitted at the end of Jan'19

17. Does the Institution have Management Information System?
Yes
The institute has established a full fledged ERP System with following modules:
1. **Accredia OBE Features** (OBE Planning Module, OBE Special Courses, OBE for internal assessments-direct, University Exam attainment, In-direct Assessment Module, Attainment Reports and Analysis, Course, PO Outcome action items)

2. **Accredia Plus Features** (Student Admission and Document Store, Admission Approval and Confirmation, Student Admission Photo, ID and USN, Fee Module and Integration, Academic Staff Profile and Assignment, Staff R&D Activities, Academic Planning and Calender, Academic Delivery and Progress Review, Feedback, Lesson/Content Storage and Retreival, Student's 360 degree View, Student Proctering and Counselling, Student and Parent Communication, Class Committee Meeting, Semester End Finalisation, Library, Mobile Application, Seating Arrangements and Logistics)

3. **Data Migration & Security** (Historical Data Migration, Security Backup and Archival)

All the activities of the above modules will be regularly updated as and when the information is collected and regular reports are generated for analysis. Dean (academic) will conduct regular meetings of all the ERP coordinators, HODs and other concerned staffs for the analysis of data generated. After the meetings, if any discrepancies are found in the data generated, suitable remedial measures are taken to improve upon the students/teachers performance and other stake holders.

If yes, give a brief description and a list of modules currently operational.

Part-B

CRITERION I – CURRICULAR ASPECTS
1.1 Curriculum Planning and Implementation
1.1.1 Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The institute prepares an annual academic calendar for the day-to-day academic process with respect to University academic schedule. The calendar specifies the dates of college reopening, monthly tests, holidays, examination schedules and Schedule of extra and co-curricular activities etc.

All the faculty members maintains an attendance register for every subject which contains register numbers, names, attendance details, period wise syllabus coverage, periodical test marks, attendance percentage and internal assessment marks.

Each faculty member maintains a course file which contains the prescribed syllabus of the course, detailed work plan, study material, experimental write-ups, previous year university question papers, assignments, quizzes, e-learning material, etc. The tests are conducted periodically and the evaluation of the internal assessment books done immediately after the test schedule and the performance of the students is notified on the notice board and the same is informed to their parents through emails/sms and phone calls.

The college has constituted an Internal Quality Assurance Cell (IQAC). It is headed by a coordinator and one member drawn from each department as member of IQAC. IQAC provides the development and application of quantity bench marking for various academic and administrative activities of the Institution. Regular meetings are conducted by this body for planning and execution of teaching-learning methodology. This body will obtain feedback from all the stakeholders and analyze and submit report to the Principal for appropriate action. The Principal based on the report will take remedial measures in organizing tutorial classes / extra classes / Quizzes / Supportive classes and any other as suggested by the above body. Through IQAC teaching-learning process is monitored and audited for the improvement quality education to students. It certainly helps to take up remedial measures to improve the teaching-learning methodology.

The Institute offers a conducive environment for improving students' participatory and interactive skills. Every department has its own Forum and through this forum number of activities such as seminars, quiz, workshops and technical competitions will be held from time to time through which the faculty and students interact and participate jointly in all these activities. The students undertake mini projects and main projects in all the departments to develop their self-learning and problem solving capabilities. In addition, students are encouraged to undergo implant trainings in industries, internships and teaching practices.

State level and National level symposiums are fully organized by the students in all the departments. These programs will nourish the students in terms of their managerial and organizational skills apart from enriching their knowledge on latest topics. The institute also encourages the students to conduct a state level cultural fest called DAVANA to nourish the extra-curricular activities of the students.

Institution honours the concept of critical thinking, creativity and scientific temper among the students and encourages them accordingly. Students are encouraged to prepare and present papers in national and international conferences within the college and outside the institute. They are provided with financial assistance to present their papers. Apart from the paper presentations and publications, they carry out mini and main projects to explore their design and problem solving abilities within the college or either in industry or R&D labs. In addition, eminent personalities, industrial experts, entrepreneurs are invited to the college to share their success stories with the students.

Modern multimedia teaching aids such as LCD projectors, OHP, CD-ROM, internet enabled computer systems are available in most of the class rooms and other learning centers namely laboratory, library etc. E-learning resources such as NPTEL are also available for the use by the faculty. Students are encouraged to use computer software for meaningful analysis of their design and experimental data in the laboratories. Institute also has e-books, e-journals which are valuable to the students. Institute supports teachers for membership of professional societies. Most of the teachers are members of societies like IEI, ISTE, ASME. ICT enabled methods are extensively employed by the teachers in many departments.

The Institute has membership of DELNET consortium where the faculty and students can access over 750 scientific journals and 850 Engineering journals. High speed Internet connectivity in the campus enables the students and faculty to access e-resources, free journal, e-books.

1.1.2 Certificate/ Diploma Courses introduced during the Academic year

Name of the Certificate Course	Name of the Diploma Courses	Date of introduction and duration	focus on employability/ entrepreneurship	Skill development
1. Sewing Machine Operator (Dept. of Textiles)	--		100% focus on employment. This course is sponsored by Dept. of Handlooms and Textiles, Govt. of Karnataka for unemployed youth both men and women	1. Garment manufacturing 2. Sewing machine maintenance

1.2 Academic Flexibility

1.2.1 New programmes/courses introduced during the Academic year

Programme with Code	Date of Introduction	Course with Code	Date of Introduction
Nil	--	--	--

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

Name of Programmes adopting CBCS	UG	PG	Date of implementation of CBCS / Elective Course System	UG	PG
1. B.E. (Civil Engg.)	UG	--	August 2015		
2. B.E. (Mech.Engg.)	UG	--	August 2015		

3. B.E. (CS&E)	**UG**	--	August 2015		
4. B.E. (E&E)	**UG**	--	August 2015		
5. B.E. (E&C)	**UG**	--	August 2015		
6. B.E. (E&IE)	**UG**	--	August 2015		
7. B.E. (Chemical)	**UG**	--	August 2015		
8. B.E. (IS&E)	**UG**	--	August 2015		
9. B.Tech. (Textile Tech.)	**UG**	--	August 2015		
10. M.Tech (CS&E)	--	**PG**	August 2015		
11. M.Tech (Structural Engg.)	--	**PG**	August 2015		
12. M.Tech (Machine Design)	--	**PG**	August 2015		
13. M.Tech (Environmental Engg.)	--	**PG**	August 2015		
14. M.Tech. (Textile Tech.)	--	**PG**	August 2015		
15. M.Tech (Thermal Power Engg.)	--	**PG**	August 2015		
16. MCA	--	**PG**			
17. MBA	--	**PG**			
Already adopted (mention the year)			**2015**		

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

No of Students	Certificate	Diploma Courses
43	Issued	Cloud Computing
100	EDI Ahmadabad	
141	TISS-CERTIFIED MS EXCEL FOR MANAGEMENT	

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
Commercial plant tissue culture at Labland Biotech Ltd., Mysuru	31.7.17 to 14.8.17	01
The Largest Learnathon of India	02-02-2018	100
TrailHead and Sales Force	17-11-2018	75
Object oriented programming using C++	17th Sep to 18th Nov	35
CREA, organized by BIET Placement cell	23/08/18	05
TCS Ninja Mock test	30/08/18	06
BYJU's camp on career options	15/10/18	10
Entrepreneurship Camp	27/10/18	03
Boot Camp and Hackathon on "Building Chatbots Using IBM Watson Analytics"	11th, 12th and 13th of October 2018	310
Workshop on " Fundamentals of Declarative App building using Saleforce Lightning Platform"	09th, 10th and 11th of November 2018	125
Softskills Training programme	15th of December 2018	119
Semiconductor Memories	29th Sep 2018	147
MATLAB and its Applications	1st Oct 2018	91
Machine Learning Concepts	3rd Oct 2018	88
DSP applications	4th Oct 2018	109

Safety Critical Mission Critical Avionics Applications	5th Oct 2018	86
Automobile Sensors & VLSI	23.08.2018	110
MATLAB Resources for Academia	03.09.2018	115
Employability readiness – An outbound training programme at Pegasus Institute of Excellence, Pondicherry	3 Day Programme – 22nd to 24th Nov, 2018	93 Students
Induction and Orientation Programme – 1st Semester Students of VTU	3 Days Orientation Programme for first year students	120 students from 1st Semester
Re-Orientation Programme for 3rd Semester students	At the beginning of the 3rd Semester (2017 & 19 Batch)	100 Students from 3rd Semester
Symposium – Industry 4.0		Students of 3rd semester from all Specialization.
Basics of Financial Markets – By Karvy India, Hyderabad Head Office		70 Students from 3rd Semester
Industry Visit to Kargil Industries		HR Students from Batch 2017-19 batch

1.3.2 Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
Projects titles are to be finalized to undergo internship in the month of July 2018/ Jan 2019as per New syllabus	33
NIB, OCB, GSM, Communication	02
Content Writer	01
Web Developer	10
Application Development Management Practice	01
JSW, Manufacturing Process of Steel	2
Reliance Jio Infocom Optical Fiber Cable & Real Time monitoring	1
RTTC, Advanced Wireless Communication	1
Metal and Steel Factory, Vocational Training Program.	1
Data science, Machine learning, Python	91
MCA	27 (Internship)
Internship Training Program	43
Textile Students Projects, Student Internship/Industrial practice	35
HAL, Bengaluru	4
Bangalore Metro Rail Corporation, Bangalore	1
Ideal Educraft Technologies, Bengaluru	10
RTTC BSNL, Mysuru	8
OSI India, International Tech-park, Bengaluru	2
Seg Automative India Pvt, Ltd, Bengaluru	3

Embiot Technologies, Bengaluru	2
Vidvath Technologies, Davangere	1
Tata Power Company Ltd., Sed Electronic City, Bangalore	2
Apsis Solution Konanakunte cross, Talaghattapura, Bangalore	1
BMRCI, Bengaluru	3
Matlab and its applications on Signal and Image Processing by Vidvath Technologies, Davangere	17
Embedded IOT by Fiabilite personnel profiles, Bangalore	35
Labview by VI solutions, Bangalore	40
Internship EI	17

1.4.1 Whether structured feedback received from all the stakeholders.

1) Students	2) Teachers	3) Employers	4) Alumni	5) Parents
Yes	Yes	Yes	Yes	Yes

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

The college has constituted an Internal Quality Assurance Cell (IQAC). It is headed by a coordinator and one member drawn from each department as member of IQAC. IQAC provides the development and application of quantity bench marking for various academic and administrative activities of the Institution. Regular meetings are conducted by this body for planning and execution of teaching-learning methodology. This body will obtain feedback from all the stakeholders and analyze and submit report to the Principal for appropriate action. The Principal based on the report will take remedial measures in organizing tutorial classes / extra classes / Quizzes / Supportive classes and any other as suggested by the above body. Through IQAC teaching-learning process is monitored and audited for the improvement quality education to students. It certainly helps to take up remedial measures to improve the teaching-learning methodology.

CRITERION II -TEACHING-LEARNING AND EVALUATION

2.1 Student Enrolment and Profile

2.1. 1 Demand Ratio during the year

Name of the Programme	Number of seats available	Number of applications received	Students Enrolled
1. Civil Engg.	120	--	99
2. Mechanical Engg.	120	--	86
3. Electrical Engg.	60	--	47
4. E&C Engg.	120	--	114
5. Comp.Sc.& Engg.	120	--	120
6. Textile Tech.	40	--	37
7. E&EI Engg.	30	--	15
8. Chemical Engg.	30	--	26
9. IS&E Engg.	120	--	108
10. Biotechnology	30	--	21

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 full time teachers available in the institution teaching only UG courses	Number of full time teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018-19	3125	145	216	23	239

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
	147	Power-point with audio & Videos, NPTEL, Smart board, LCD, Camera, Computer Projector	41	03	NPTEL, VTU Edusat, e-journal Digital Classes (Using PowerPoint and LCD projector) Slide share, Swayam Prabha, Digital Library, Online Journals , System with Internet Connection, MOOC's Research Gate etc.

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

Institute has a systematic student counselling procedure. For every 15 students a teacher is appointed as a mentor/counsellor to counsel the students and record their improvements from time to time. During counselling, the students are encouraged to discuss their problems related to academics, personal etc. The weak students are advised suitably to improve their performance in tests and examinations. The counselling report will be monitored by the HOD and the report of poor students will be informed to their respective parents through emails, sms, phone calls. The counsellor also identifies the weak students and accordingly remedial / tutorial classes are arranged.

The counselling rendered by the counsellor is recorded and monitored by the head of the department. Such counselling has yielded fruitful results to students in terms of improvement of pass percentage and employability of students. The students get academic and personal guidance from the concerned teachers apart from the counsellor. There is a full time training and Placement Dean supported placement officers/coordinators who train the students in terms of soft skills and arranges training programs by experts on industrial/ technical skills.

To monitor the students' progress, institute has the continuous internal evaluation system which consists of Internal Assessment Tests conducted in each course. Three such tests are conducted in a semester to assess the performance of students. Improvement Tests are also conducted if necessary based on the performance of students. Continuous Assessment Report (marks obtained in every test) is displayed on notice board of the respective department after every test. Institute communicates the grades, marks obtained in the internal tests to the parents and students regularly. It organizes regular parents and guardians meet to have a communication with students and parents. In a semester three progress reports are sent to the parents, after the first IA tests, after the second IA tests and at the end of the semester respectively. The report card contains IA marks & Attendance in various subjects along with class teacher's remarks. The third report card has the final IA marks & attendance with Principal's remarks on eligibility to appear for the forthcoming examinations. The university also conducts the written/theory/practical examination at the end of semester. The result of same are communicated to the student and parents. The academic committee analyses the university examination results for each Program.

All the rules and regulations governing undergraduate/post graduate courses are mentioned in the corresponding 'Scheme and Syllabus' book supplied by VTU. The booklet contains information on attendance requirement, internal assessment marks, eligibility for passing, maximum duration for course completion, promotion and eligibility to appear for examinations, electives, seminar & project, award of class at semester level, award of class at degree level, award of medals & ranks and transfer from on college to another college.

The Academic Committee headed by the Dean (Academic) in consultation with Principal prepares the academic calendar at the beginning of every semester. This calendar contains the date of commencement of classes, test schedules, date of semester closing, practical/theory exam commencement dates etc. The evaluation of internal assessment test is done as follows: Three internal assessment tests are conducted in a semester and the average of two best test marks are calculated and displayed on the notice board. Students are asked to go through their test books and if ant discrepancies are found, they can meet the respective teachers for clarification. After every test, the students' progress report containing the consolidated attendance and marks is dispatched to their parents on the scheduled date.

In this way the entire process of monitoring and evaluation is made transparent to students, teachers and the parents.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor: Mentee Ratio
UG: 3125 PG: 145 (Total: 3270)	216	1 : 15

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.
As per AICTE norms	37	Nil	37	47
2.4.2 Honours and recognitions received by teachers				
(received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)				
Year	*Name of full time*	*Designation*	*Name of the award, fellowship, received from*	

of award	teachers receiving awards from state level, national level, international level		Government or recognized bodies
2018	Dr. B.E.Rangaswamy	Professor & Head Dept.of Biotechnology Dean (R&D)	Fellow- Indian Aerobiological Society, Kolkata
2017	Dr. B.E.Rangaswamy	,,	Rajarambapu Patil National Award for promising Engineering teacher for creative work by ISTE, New Delhi
2017	Dr. B.E.Rangaswamy	,,	State award from Karnataka Rajya Vijnana Parishat
2018	Chidananda G.	Assistant Professor	Ph.D. degree from Visvesvaraya Technological University, Belagavi.
2018	Dr. Nirmala C R (International Level)	Prof.& Head	ITU Asia-Pacific Regional Development Forum 2018, Bangkok, Thailand 21-22 May 2018
2018	Dr. Pradeep N Dr. Nirmala C R	Assoc. Professor and PG Co-coordinator Professor and Head	Book Proposal on " modern Techniques for Agriculture Disease management and Crop Yield Production" Has been accepted by IGI Publisher , USA
2018	Prof. Naveen Kumar K R Prof. Arun Kumar G H Prof. Wasim Khan	Assistant Professor	"Certificate of Appreciation" for adopting Impartus Lecture Capture and being the part of Digital Revolution in Education
2017	Dr. Sujith Kumar S H	Professor	SEBI –Recognized Financial Education Trainer
2017	Rathna N	Assistant Professor	Cleared K-SET examination for Lectureship in Dec-2017, conducted by UGC
2017	Dr. Prakash S Alalageri	Associate Professor	Awarded Ph.D. from Anna University , Chennai
2018	Rathna N	Assistant Professor	ELITE title from NPTEL online courses for completing 8 weeks course on Economic growth and development
2018	Shruti K NPTEL certification – soft skills	Assistant Professor	Cleared soft skills – achieved credit points 3
2018	Vijay K S NPTEL Certification – Data Analytics and Decision Making - 1	Assistant Professor	Cleared Data Analytics and Decision Making-1 – achieved credit points 3
2017	Prashantha Kumar O	Assistant Professor	Completed MS in Psychotherapy as a certified counsellor
2018	Dr. K S Basavarajappa	Professor and Head	Recognized as • Editorial Board Member of Institute for

			exploring Advances in Engineering (IEAE) with the designation as "Editor" by (IEAE) • Reviewer for Institute for exploring Advances in Engineering (IEAE) International Journals
2018	Dr. K S Basavarajappa	Professor and Head	Recognized as • Member of Advisory committee for ISRASE explore Digital Library • Reviewer for ISRASE- International Journal of Recent Advances in Science and Engineering.
2018	Dr. K S Basvarajappa	Professor and Head	Recognized as • Member of Doctoral Advisory Committee (DAC) of Manipal Institute of Technology (MIT), Manipal.
2018	Dr. Sunanda S Naik	Assistant Professor	**Received** • Certificate of Appreciation for adopting Impartus Lecture Capture and being the part of digital revolution in education.

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	Progr amm e Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
Biomedical Engg. Biotechnology Chemical Engg. Computer Sc.Engg Civil Engg. Ele.& Comm.Engg. Ele.& Electroc.Engg Ele.& Instru.Engg Info.Sc.Engg. Mech.Engg. Textile Technology	BM BT CH CSE CV EC EE EI ISE ME TX	7th Semester 8th Semester	Nov-Dec 2017 June-July 2018	February 2018 August 2018

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

Faculty members in the institute follow the formative and summative approaches to evaluate students' performance and achievements through assignments, presentations, group discussions, quizzes, problem solving, class interaction, workshops, seminars, project viva voce, written and practical examination, attendance in the class room, extracurricular and co curricular activities. These practices have improved the performance levels of the students to the maximum extent.

As far as examination preparation is concerned, the faculty takes extra care in solving the previous years question papers, model question papers so as to prepare the students for main examinations. The continuous evaluation systems through periodical internal

assessment tests have helped the students to excel better in the university examinations.

There are remedial/add-on/bridge/enrichment courses designed for higher semester students also. The teacher-in-charge/class teacher can recommend a suitable course for each student in case it is necessary. The continuous evaluation process goes on till the final semester.

The institution is affiliated to VTU and hence governed by its rules. As per norms, three internal assessment tests are conducted in a semester, the third being an improvement test. Questions for the IA tests are generally chosen form old VTU question papers. Evaluation is strictly as per the scheme prepared by the teacher who has set the question paper. Internal test question paper is set for 25 marks and the time allotted is 1 hour. VTU examination pattern is followed in conducting IA tests. The evaluated blue books are shown to students for clarifications. Also the IA marks are displayed on notice board.

The behaviour of the student is also monitored with his experimental skills in the laboratory and his zeal to perform additional experiments and translate innovative ideas to design a new experiment. Regularity of the student to the institution is monitored by recording his attendance in every class by the teacher.

Apart from the academics the students interests with regard to co-curricular and extra-curricular activities are identified and the institute encourages the students to participate in these activities. Students are also encouraged to participate in technical symposia, paper presentation and visits to industries etc. to get latest information in their domain-subject.

Students are also provided an opportunity think, learn and act independently in domain-subjects. Any new idea from the student is always encouraged, recognized and rewarded suitably.

Classes on communication skills, technical skills, presentation ideas, leadership abilities are the regular programs conducted by the institute every year to nurture the significant growth and overall development of students both in academics, extra and co-curricular and behavioural activities.

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

After the admission process is completed, the Government of Karnataka gives a cut-off date and the Affiliating University provides an academic calendar which contains details about date of commencement of classes, monthly test schedules, dates of semester closure, exam dates etc.

The institute prepares an annual academic calendar for the day-to-day academic process with respect to University academic schedule. The calendar specifies the dates of college reopening, monthly tests, holidays, examination schedules and Schedule of extra and co-curricular activities etc.

The university conducts the written/theory/practical examination at the end of semester. The result of same are communicated to the student and parents. The academic committee analyses the university examination results for each Program.

All VTU examination question papers are delivered through a highly secure data transfer system. Separate security codes are supplied to Chief Superintendent, external deputy chief superintendent and system operator by the University for downloading the question paper. The question paper can be downloaded only 30 minutes before the commencement of examination. Further, necessary copies of the same are made and packed. As per VTU guidelines, the entire process strictly takes place in a strong room exclusively meant for the purpose. Entry to the strong room is restricted to examination staff only.

Digital evaluation of answer scripts:
On completion of an examination, the answer scripts are immediately sent to the main VTU evaluation centre. These answer books are scanned to digital form and communicated to various branches to be evaluated by teachers. As the entire process is automated, the effort of the evaluator is reduced to a great extent. This system also avoids the difficulty in transporting the answer scripts to various evaluation branches and back.

Publication of results in website/communication through SMS:
Students can get the result from website or by sending SMS to the university. The major reforms introduced by the institution are the following. The institution has a separate exam section with 10 systems of latest configuration having high speed internet access. Teachers use this section for on-line entry of IA marks and on-line uploading of examination application forms to VTU. Also this section is utilized for entry of IA marks and attendance immediately after internal assessment tests and subsequent preparation of report cards to be dispatched to parents. As the above mentioned activities are happening only during specified periods, rest of the time the section is utilized for conducting on-line quiz, on-line test etc. for candidates eligible for placement. The activity is looked after by Training & Placement Cell.

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

<div align="center">YES</div>

2.6.2 Pass percentage of students

Programme Code	Programme name	Number of students appeared in the final year examination	Number of students passed in final semester/year examination	Pass Percentage

1. BM 2. BT 3. CH 4. CSE 5. CV 6. EC 7. EE 8. EI 9. ISE 10. ME 11. TX	Biomedical Engg. Biotechnology Chemical Engg. Computer Sc.Engg Civil Engg. Ele.& Comm.Engg. Ele.& Electroc.Engg Ele.& Instru.Engg Info.Sc.Engg. Mech.Engg. Textile Technology	11 17 28 128 126 106 49 27 85 109 36		11 12 25 122 101 104 42 27 82 106 36	100 71 93 95 80 98 86 100 96 97 100

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)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding Agency	Total grant sanctioned	Amount received during the Academic year
Major projects				
Phages as Natural Nano-Medicines to Target superbugs under Centres of Innovative Science &Engg. Education (CISEE) **Project Coordinator** Dr.Manjunath N.S	3 Years	VGST Dept.of IT,BT, and S&T, Govt.of Karnataka	Total grant: 30 2017-18	2014-15 3 Years 10.0
CS	2 years	VGST (K-FIST Level-2)	Rs.40.00 Lakhs	Rs. 20.00 Lakhs (2015-17)
Minor Projects				
CS	1 year	KSCST	Rs.4000.00	Rs.4000.00
Textile	1 Year	KSCST	Rs.9000.00	Rs.9000.00
Interdisciplinary Projects				
CS	2 years	NAIN	Rs. 2.0 Lakhs	Rs.2.0 Lakhs
Industry sponsored Projects				
Projects sponsored by the University/ College				
CS	1 year	VTU	Rs:	Rs: 5,000.00

			4,000.00	
EC	2017-2018	VTU, BELGAVI	Rs.8000/-	Rs.8000/-
	Feb to May 2018	BIET, DVG	Rs.10000/-	Rs.10000/-
	2017-2018	KSCST	Rs.6000/-	Rs.6000/-
ISE	6 Months	VTU	4000	4000
	6 Months	VTU	4000	4000
	6 Months	B.I.E.T	5000	5000
	6 Months	B.I.E.T	5000	5000
Chemical	01	B.I.E.T Davangere	5000=00	5000=00
Instrumentation	5 Months	BIET	Rs.5000/-	Rs.5000/-
Students Research Projects *(other than compulsory by the College)*				
	6 months	KSCST	6000/-	6000/-
	6 months	KSCST	6000/-	6000/-
	01	KSCST, Bangalore	5000=00	5000=00
	6 months	BIET ,Davangere	Rs. 13000.00 For 03 UG Projects	2018
	5 Months	VTU	Rs.5000/-	Rs.5000/-
International Projects				
Any other(Specify)				
Development of Biodegradable Eco-friendly and Cost effective Sanitary Napkin Dr.Manjunath N.S Dr.B.E.Rangaswamy Namratha Pooja Meghana	06 Months	Karnataka State Council for Science &Technology, Bengaluru	Rs.6000-00	Rs.6000-00
Maize cob as a recycled agra Waste- A feasibility study Prof.Vasudeva Nayaka K.B.L Dr.B.E.Rangaswamy Akshatha Kulkarni Aswin Sheereen M.R Chaithra C.Hosakatti	06 Months	Institute funded	Rs.4000-00	Rs.4000-00

Total				

3.2 Innovation Ecosystem

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

Title of Workshop/Seminar	Name of the Dept.	Date(s)
A week long workshop "Trends in Biotechnology"	Biotechnology	15-21 Jan 2018
A seminar "Moving towards Tuberculosis free India"	Biotechnology	19th Dec 2017
Career counselling for PUC students	Biotechnology	19th Feb 2018
One day lecture series	Biotechnology	20th Feb 2018
Academic Interface Program	IS&E in Association with TCS	16/03/2018
IOT	Electronics and Communication Engineering, BIET, Davangere	9th to 11th Oct 2018 and 29th to 31st Oct 2018
Product Introduction – GRB Snack product "town bus" during the octagon event	MBA	Feb, 2018

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

Title of the innovation	Name of the Awardee	Awarding Agency	Date of Award	Category
Promising Engineering teacher for creative work in Development of labs, Research& consultancy	Dr. B.E.Rangaswamy	ISTE, New Delhi	2017	Rajarambapu Patil National Award
SIH-18	Team Name- Data Devils	Government of India MHRID	04/04/2018	Ministry of Road Transport and Highways
3rd Rank	Vasanth kumar	VTU, Belagavi	Jan 9th 2018	
Advitya-18	Abrar Ahamed Pavan Kumar I B Shashank S M	Department of Civil Engineering KLE, Hubballi	28-29th September 2018	Paper Presentation
Hackathon-2018	Abrar Ahamed	JNNCE Shivamogga	4-5th September 2018	
Biochess 2018	Darshini Swathi Sharan Abrar Ahamed	S I T, Tumkur	20th March 2018	Paper Presentation
Smart Armet (Helmet) System	Pooja R Sharma Latha P G	Visveswaraya	28th June2018	VTU State Level Project Exhibition cum

	Niveditha Priyanka	Technological University(VTU),Belagavi	(Rs 25000/- Cash prize)	Competition 2018
Eco-Swacch	Rajjval K Jain Sophia E M Shashank R P Vaibhav Y R Prerana G Kini Chaitra B Kamat	NAIN Centre, JNNCE Shivamogga (Supported by Govt. of Karnataka)	5th September, 2018	State – Level event

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

Incubation Centre	Name	Sponsored by
New age Incubation Network	ICT Skill Development	ICT Skill Development Society, Dept. of IT, BT and S&T, Government of Karnataka
ISE Dept., BIET	NAIN	
01	New Age Incubation Center(NAIN)	KBITS Govt. of Karnataka

Name of the Start-up	Nature of Start-up	Date of commencement
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3.3 Research Publications and Awards

3.3.1 Incentive to the teachers who receive recognition/awards

State	National	International
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3.3.2 Ph. Ds awarded during the year *(applicable for PG College, Research Center)*

Name of the Department	No. of Ph.Ds Awarded
Biotechnology	02
Chemistry	01
Electrical & Electronics	01
Textile Technology	02
Chemical Engineering department	01
CSE	03
MBA	01
Information science and Engineering	02
MATHEMATICS	03

3.3.3 Research Publications in the Journals notified on UGC website during the year

	Department	No. of Publication	Average Impact Factor, if any
National	Biotechnology	04	2.3
	Chemistry	01	0.95
	Textile Technology	01	1.56
	MBA	10	5.045
	EI	01	4.032
International	Chemistry	02	2.1
	CS&E	14	04
	Textile Technology	06	6.837
	E&CE	3	
	MATHEMATICS	02	5.3
	Mechanical	04	
	MCA	01	

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

Department	No. of publication
Biotechnology	02
Information Science & Engg	01
Electronics & Instrumentation Engineering	01
CSE	02 (Books) +08 (Conference Proceedings)
Electrical and Electronics Engg.	04
MCA	01 [3rd International Conference on Applied and Theoretical computing & Communication Technology, (iCATcct – 2017)].
	01 [International Journal of Computer Engineering & Application – UGC Approved, ISSN-2321-3469,2018]

3.3.5 Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or Pub Med/ Indian Citation Index

Title of the paper	Name of the author	Title of the journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citations
Synthesis, Characterization, and Antimicrobial Activity of Some Transition metal complexes with Schiff Base	S.Shanmukhappa Anilkumar M R Revanasiddappa B.E.Rangaswamy	Journal of Applicable Chemistry	2017	H-1	Research Center	07
Synthesis, spectral characterizatio	S.Shanmukhappa Anilkumar M R	Journal of Advances in	2017	H-2	Research Center	13

n and some biological studies of transition metal complexes with Schiff base ligand containing N,O and S as donor atoms	Revanasiddappa B.E.Rangaswamy	Chemistry				
Study on muscle relaxing potential of ethanalic extract of barc of Bauhinia Purpurea (L)p	B.E.Basavarajappa Shamala T	IOSR Journal of Pharmacy and Biological Sciences	2018	NA	Research Center	04
Analysis of NSL-KDD Dataset using K-Means and Canopy Clustering Algorithms based on Distance Metrics	Dr. Poornima B	ICIIC-2018	2018			
An Ensemple Classifier Approach on Different Feature Selection Methods for Intrusion Detection	Dr. Poornima B	Information System Design and Intelligent Applications(India-2017	2017			
Detection of Outlier using Interquartile Range Technique from Intrusion Dataset,	Dr. Poornima B	FICTA	2017			
Comparison of dry sliding wear and friction behavior of Al6061/Sic composites with Al6061 alloy	Dr A G Shankarmurthy	American Institute of Physics	2018		AIP, Proceedings 1943,020116(2018)	
Experimental Investigation of waste cooking oil and honge	Dr. S Kumarappa and Deviprasad N	IJAER	2018		RIP Delhi	

oil as biodiesel in single cylinder electronic direct injection diesel engine	M					
Effect of injector opening pressure on dairy scum biodiesel operatedf diesel engine	Dr. G Manavendra	IJCAR	2018			
Effect of injection timing on diesel engine performance, combustion and emission characteristics operated with dairy scum biodiesel	Dr. G Manavendra	IJCET	2018			
Fixed-Bed column studies on adsorption of 4-nitroaniline from aqueous solution by bagasse fly ash	Praveen Kumar DG, Kalleshappa C.M, and Aravinda H.B	International Journal of Engineering Science Invention	2018	-	B.I.E.T, Davanagere	01
Adsorption of picric acid onto granular activated carbon from aqueous solution: parametric, kinetic, equilibrium and thermodynamic study	Praveen Kumar DG, Kalleshappa C.M, and Aravinda H.B	International Journal of Latest Engineering and Management Research	2018	-	B.I.E.T, Davanagere	01
Removal of nitrobenzene from aqueous solution by adsorption on bagasse fly ash	Praveen Kumar DG, Kalleshappa C.M, and Aravinda H.B	International Journal of Modern Trends in Engineering and Research	2018	-	B.I.E.T, Davanagere	01
"Characterizati on and	Dr. K. Murugesh	IJMRA, April, issue	2018			

development of Bio composites from Sisal and Areca fibres"	Babu & Y N Dinesh					
"Studies on geometrical, performance and comfort properties of Bamboo and Bamboo blended fabrics"	Dr. K. Murugesh Babu, and S M Chandrasekhara	International Journal of Eng.& Science Research, May,	2018.			
"Characterizati on and development of bio composites from Jute and Coir"	Dr. K. Murugesh Babu & Y N Dinesh	International Journal of Managem ent, IT and Eng. July,	2018			
"Characterizati on of Bamboo/cotton and polyester fibres, structure and properties"	Dr. K. Murugesh Babu, and S M Chandrasekhara	International Journal of Eng.& Science Research, May, 2018	2018			
Eco-friendly green fibre – reinforced composited to combat global warming	Dr. K. Murugesh Babu,	www.textil eschool.co m/3518	2018			
Studies on antimicrobial properties of Sida Rhohbila folia plant.	Dr.K.Murgesh Babu	International Journal Current Research	2018			
Influence of twist multiplier and loop length and drape values of single jersey knitted fabrics produced from ring and compact yarn.	S.N.Ramesh	Spinning Textiles	2018			
A Study on Performance Evaluation of Selected Indian Equity Mutual Funds	Mr. Manjunath B R	International Journal of Creative Research Thoughts, Vol 6 Issue	2018			

		1 January 2018 Page No 381-389				
A Study on Performance Evaluation of Gold ETFs in India	Mr. Manjunath B R	International Journal of Exclusive Management Research February 2018 - Vol 8 Issue 02	February 2018			
A Study on Investors Attitude towards Mutual Fund as an Investment Avenue	Mr. Manjunath B R	International Journal of Emerging Technologies and Innovative Research February 2018, Volume 5, Issue 2	2018,			
A Comprehensive Study on Impact of Social Networking Sites on Student's Academic Performance	Mr. Manjunath B R	Journal of Modern Management & Entrepreneurship INSPIRA-JMME) Vol 8 No 2 April 2018 Page No 1-11	April 2018			
Empirical Analysis on Influence of Unemployment rate on Indian Economy: Evidence India Economic Data	Mr. Manjunath B R	International Journal of research in Economics and social Science Vol. 8 Issue 2, February-2018	February - 2018			
Empirical	Mr. Manjunath	Kaav				

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Analysis on FDI inflow influence on the growth of Indian GDP	B R	International Journal of Economics , Commerce & Business Management KIJECBM/ JAN-MAR (2018)/VOL-5/ISS-1/A80 PAGE NO.475-483	JAN-MAR (2018)			
A Flavour of Garments industry in India and China	Mr. Prashantha Kumar O	International Journal of Research and Analytical Reviews	03/08/2018			
Ann Emperical Study – Workers attitude the Human Resources Development in Indian Garments Industry	Mr. Prashantha Kumar O	International Journal of Creative Research Thoughts.	02/04/2018			
Apparel Sector Trends in India	Mr. Prashantha Kumar O	Journal of Emerging Technologies and Innovative Research	June 2018			
A Paper on " A Study on HPWS at Garment Sector"	Mr. Prashantha Kumar O	International Journal of Research and Analytical Reviews	03/07/2018			
Design and development of electro-optical system for acquisition of PPG signals for	BM Jayadevappa	International Journal of Research in Engineerin	2014	5	Cummins College of Engineering for Women Pune, India	4

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the assessment of cardiovascular system		g and Technology				
					Cummins College of Engineering for Women Pune, India	
					Sathyabama University, Chennai	
An Estimation Technique using FFT for Heart Rate Derived from PPG Signal	BM Jayadevappa	Global Journal of Research In Engineering	2015	2	Northwestern Polytechnical University	2
					Northwestern Polytechnical University	
Photoplethysmography: Design, Development, Analysis and Applications in Clinical and Physiological Measurement– A Review	BM Jayadevappa	International Journal of Innovative Research in Science, Engineering and Technology	2016	2	Kongu Engineering College, Perundurai	2
					Prague, Czech Republic	
Wireless monitoring and analysis of PPG signal for assessment of cardiovascular system in real time	BM Jayadevappa	International Journal of Bioinformatics Research and Applications	2016	1	Institute of Changshu, Nanjing University of Science and Technology, Changshu, 215500, China	1
Glaucoma Detection by Image Fusion from Fundus Color Retinal	Deepashri K M	International Journal of Control Theory and Application	2015	1	KL University, INDIA	1

Images: A		s				
Review						

3.3.6 h-index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the paper	Name of the author	Title of the journal	Year of publication	h-index	Number of citations excluding self citations	Institutional affiliation as mentioned in the publication
Synthesis, Characterization, and Antimicrobial Activity of Some Transition metal complexes with Schiff Base Ligand	S.Shanmukhappa Anilkumar M R Revanasiddappa B.E.Rangaswamy	Journal of Applicable Chemistry	1	07	Research Center	
Synthesis, spectral characterization and some biological studies of transition metal complexes with Schiff base ligand containing N,O and S as donor atoms	S.Shanmukhappa Anilkumar M R Revanasiddappa B.E.Rangaswamy	Journal of Advances in Chemistry	2	13	Research Center	
"Characterization and development of Bio composites from Sisal and Areca fibres"	Dr. K.Murugesh Babu & Y N Dinesh	IJMRA, April, issue	2018			
"Studies on geometrical, performance and comfort properties of Bamboo and Bamboo	Dr.K. Murugesh Babu, and S M Chandrasekhara	International Journal of Engg. & Science Research, May,	2018.			

blended fabrics"						
"Characterization and development of bio composites from Jute and Coir"	Dr.K. Murugesh Babu & Y N Dinesh	International Journal of Management, IT and Engg. July,	2018			
"Characterization of Bamboo/cotton and polyester fibres, structure and properties"	Dr.K. Murugesh Babu, and S M Chandrasekhara	International Journal of Engg. & Science Research, May, 2018	2018			
Eco-friendly green fibre – reinforced composited to combat global warming	Dr.K. Murugesh Babu,	www.textileschool.com/3518	2018			
Studies on antimicrobial properties of Sida Rhohbila folia plant.	Dr.K.Murugesh Babu	International Journal Current Research	2018			
Influence of twist multiplier and loop length an drape values of single jersey knitted fabrics produced from ring and compact yarn.	S.N.Ramesh	Spinning Textiles	2018			
Performance enhancement of blowfish and CAST-128 algorithms and security analysis of improved blowfish	Smt. Leela G H	International journal of computer science and network security	2008	3	24	BIET, Davangere

algorithm using avalanche effect						
Blow CAST fish-A new 64 bit block cipher	Smt. Leela G H	International journal of computer science and network security	2008		11	BIET, Davangere
Performance enhancement of Blow fish algorithm by modifying its function	Smt. Leela G H	Innovative algorithms and techniques in automation, industrial electronics and telecommunication	2007		11	BIET, Davangere
Review on image enhancement techniques FPGA implementation perspective.	Smt. Nirmala S O	International journals of Electronics communication and computer techniques.	2012	1	9	BIET Davangere
Design and development of electro-optical system for acquisition of PPG signals for the assessment of cardiovascular system	BM Jayadevappa	International Journal of Research in Engineering and Technology		2	4	Cummins College of Engineering for Women Pune, India
Glaucoma Detection by Image Fusion from Fundus Color Retinal Images: A Review	Deepashri K M	International Journal of Control Theory and Applications		1	1	KL University, INDIA
Page Rank	Anitha G	Internation				

Analysis – Analysis for Indian Languages		al Journal of Pure and Applied Mathematics	28				
A Survey on Graph Database management Techniques for Huge Unstructured Data	Patil N S	International Journal of Electrical and Computer Engg.	11				

3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year :

No. of Faculty	International level	National level	State level	Local level
Attended Seminars/ Workshops	08	59	25	25
Presented papers	12	14	02	
Resource Persons	--	01	03	14

3.4 Extension Activities

3.4.1 Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the Activities	Organising unit/ agency/ collaborating agency	Number of teachers co- ordinated such activities	Number of students participated in such activities
Industry-Institute interaction /extension activities	Department of Biotechnology and Krishi Vignan Kendra, Davangere	12	45
Inter- Institute interactional activities	Department of Microbiology, SSIMS&RC, Davangere	04	45
Inter- Institute interaction activities	Regional Forensic Science Laboratories, Doddabathi	06	45
Inter- Institute interaction activities	College of Forestry, Sirsi	03	45
Moving towards Tuberculosis free India	Biotechnology in association with JJMC, Davangere	04	85

Technology Barrier Reduction Program (TBRP)	Foundation for Advancement of Education & Research (FAER) funded by ZEBRA Technologies, Bengaluru	23 teachers from Physics, Chemistry and Mathematics	32-40
The Largest Learnathon of India-2018	ICT Academy	30	100
Trail Head and Sales force	Sales force	30	75
Pro-Kabaddi	IS&E	5	20
QUIZEST	IS&E	6	25
One week Lecture Series Program	Department of Physics in collaboration with NSS	06	180
NCC Camp	35 Karnataka Battalion NCC, Raichur	-	02
NCC Camp	03 KAR ENGR COY N.C.C. BIET	-	01
Blood donation camp in association with YRC	YRC	02	100
Entrepreneurship Development Programme	Government of India MSME, New Delhi	01	60
Blood Donation	NSS/Youth Red Cross	2	28
125th year of Chicago speech of swami Vivekananda	NSS	6	25
Science Exhibition	NSS	6	40

3.4.2 Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the Activity	Award/recogniti on	Awarding bodies	No. of Students benefited
Technology Barrier Reduction Program (TBRP)	As a Training Institute	Foundation for Advancement of Education & Research (FAER) funded by ZEBRA Technologies, Bengaluru	32-40
SIH -2018	10th Consolation Prize	MHRD Government of India	06
Smart India Hackathon-2018	Participation	MHRD	06
State level Student Project Exhibition	First Prize	Karnataka State Council for Science and Technology , Govt. of Karnataka	03

State level Student Project Exhibition	Third Prize	Karnataka State Council for Science and Technology , Govt. of Karnataka	02
State-Level Hackathon - 2018	1st Prize	NAIN Centre, JNNCE Shivamogga (Supported by Govt. of Karnataka)	24
Model exhibition	First and Third place	KSTA & KRVP	30

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

Name of the scheme	Organising unit/ agency/ collaborating agency	Name of the activity	Number of teachers coordinated such activities	Number of students participated in such activities
Gender Issue Girl Child Security	Student Council ,NSS Unit and LEAD Unit of BIET	Child Girl Assassination	06	250
NGO	Sahayog Origination	Donated Study materials to handicapped children. The Funds are collected from Electrical forum	03	45
Swachh Bharath Summer Internship programme (SBSI) - 2018	Govt. of India and MHRD, New Delhi	Health Awareness, Rallies, Wall Painting, Door to Door Swachhatha Programme	05	200
Rashtriya Sadbhavana Diwas,	YRCW, Department of Sports - BIET,	Oath Taking Programme	120	600
Blood Donation Camp	Youth Red Cross Wing and S. S. Medical Institute of Research Centre, Davangere	Blood Donation Camp	10	120
Kanasu- A Social project undertaken to improve the public relationship skills	A Primary School – K Bevinahalli, Davangere District	Kanasu- A Social project undertaken to improve the public relationship skills	5	20
Blood	In association	Blood Donation	2	28

Donation Camp	with SSIMS and HDFC Bank	Camp		
Awareness on Anti-Ragging	Dr. Sudharshan and DR. K Nagaraja Rao, JJMC, Davangere	Awareness on Anti- Ragging	02	50
Gender Issue	Mr. Shihan K P Jos and team	Self Defense Mechanism	02	100
	IISC, BANGALORE	QUIZ COMPETITION BY DIVECHA CENTRE FOR CLIMATE CHANGE	01	5
	NEW AGE INCUBATION NETWORK	STATE LEVEL HACKATHON-2018	02	06
	INTERNSHALA	NATION WIDE COMPETITION	01	02
	IESA IN ASSOCIATION WITH JUINCUBATOR	MAKEATHON	01	05
Swachh Bharath	NSS	SBSI_2018	6	10

3.5 Collaborations

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

Nature of Activity	Participant	Source of financial support	Duration
Student exchange on Commercial plant tissue culture at Labland Biotech Ltd., Mysuru	Namratha	Self	31.7.17 to 14.8.17
Synthesis, characterization and Applications of Phthalic Acid azo dyes on textile fibers"	Dr.H.R.Mallikarjuna	Proposal submitted VGST under RGS/F	2017-18
Weathering studies of chemically Modified Lignocellulosic Materials with reactive dyes	Dr. G.K .Prakash	Proposal submitted VGST under K-Fist-1	2017-18

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

Nature of linkage	Title of the linkage	Name of the partnering institution/	Duration (From-To)	participant

		industry /research lab with contact details		
Academic Project	Project Work	Department of PG studies and Research in Chemistry, Davanagere University	3 Months	Kum.Chaithra Kum.Shruthi et.al
Academic Interface Program	Internship	Krackin	8 weeks	120
	Internship	Feabilte	8 weeks	120
	Salesforce Academic Alliance	Salesforce	1 week	100
Academic Interface Program	VmWare IT academy Program	VMware	1 week	100
	ICT Academy Academic Program	ICT Academy	1 week	02
	PaloAlto Academic Alliance	PoloAlto	1 week	02
	AutoDesk Academic Initiative	Autodesk	1 week	02
	AWS University Program	AWS	1 week	02
	Oracle Academy	Oracle	1 week	02
Industry	Internship	JSW steel limited	08-01-2018 to 22-01-2018	ApoorvaBadami
Industry	Internship	Diesel Loco shed, Hubballi (South Western Railway)	18-01-2018 to 31-01-2018	Haripriya P Joshi
Industry	Internship	Diesel Loco shed,Hubballi(South Western Railway)	22-01-2018 to 31-01-2018	Sourabh J Kalas
INTERNSHP	Industrial Institute Internship program	SMITRA Enterprise, Harihar. ONGC Mangalore Petrochemicals Ltd. JSW Bellary. SHANTAHALA FERO-CAST Pvt	07-03-2018 to 06-04-2018 05-01-2018 to 20-01-2018 29-01-2018 to 03-02-2018	Kushal Y M Krishna Raj Vinay Kumar Jayanth S

		Ltd, Shivamogga		
		MENON & PISTON, KAGAL M.I.D.C, Kolhapur	23-01-2018 to 05-02-2018	Kumbhar Rohit Ashok
		HUTTI GOLMINES COMPANY Ltd, Raichur.	16-01-2018 to 01-02-2018	Adarsh
		JSW STEEL Ltd, Bellary.	13-01-2018 to 31-01-2018	Vinay Kumar
			23-01-2018 to 31-02-2018	Veeresh B Kadi
		HUTTI GOLD MINES COMPANY Ltd, Raichur.	10-01-2018 to 31-01-2018	Vinay Patil Mahadev Sanadi
		SANTHOSH MIC, Beluru Dharwad		Abhishek H J
		HOSPET STEEL Pvt Ltd, Ginigera Koppal.	15-01-2018 to 05-02-2018	Ankit Mishra
		BHILAI STEEL PLANT(SAIL), Bhilai-B.T.I	10-01-2018 to 25-01-2018	
			15-01-2018 to 01-02-2018	
In-plant training	Internship	Grasim Industries Limited, Harihar Ployfibers & Grasilene division, Kumarapatnam	1 month	Abhishek D Pavan Santoshi G
In-plant training	Internship	Cargill India Private Limited,Belludi	15 days	Sharan Geenakeri C
In-plant training	Internship	BASF India Limited., Mangaluru	30 days	Chethan I C Nagaraj Nashi Rakesh M R Rakesh S B
In-plant training	Internship	Synthite Industries Limited, Kawalettu, Ranebennur	30 days	Darshini T V Santoshi G Neha C M Swathi Naik Yashwath kumar Shubham C Pavan Raikar

In-plant training	Internship	Fertilizer & Chemicals Travancore Limited, Udyoga Mandal, Eloor, Kochi, Kerala	30 days	Akshai Chandran Kevin Sebastian Muhammed Ashiq Shan V S
Academic Project	Project Work	Department of Prothodontics Surgery Bapuji Dental College, Davangere	3 months	Dr .Sartaz PG Student
Academic Internship	Internship	1. Madura Industries Pvt. Ltd, Bangalore 2. Wild Craft Ltd., Bangalore 3. Gokaldas Exports Ltd., Bangalore 4.Shahi Exports, Bangalore 5. Raymond Ltd.(Silver Spark), Bangalore 6. Indian Design Pvt. Ltd.	6 Weeks	04 04 05 04 07 05
Academic Internship	Project work	Madura Industries Pvt. Ltd, Bangalore	6 Weeks	06
Internship	Training	Whizchip Design Technologies Pvt. Ltd.,Bangalore	27th Sep 2018 till date	VII sem Students
Supporting R&D Projects	Training	VI solutions, Bangalore	9th July 4th August 2018	VII sem Students
Providing internship, industrial visits and placement opportunities	Training	Vidvath Technologies Pvt. Ltd., Davangere	9th July 4th August 2018	VII sem Students
Internship	STUDY OF 400/220 KV RECEVING STATION, GUTTUR	KPTCL	4 Weeks	7
Internship	ORGANISATIONAL STUDY/ INTERNSHIP	BHEL	4 Weeks	6

	AT BHEL-EPD, BANGALORE			
Internship	STUDY ON PLC PANEL INSTRUMENTS AND SCADA	KPTCL	4 Weeks	7
Internship	STUDY ON AIRCRAFT AT HAL BANGALORE.	HAL	4 Weeks	3
Internship	STUDY ON PCB MANUFACTURING AT SCHNEIDER ELECTRIC BANGALORE.	SCHNEIDER ELECTRIC BANGALORE.	4 Weeks	4
Internship	INTEGRATED POWER DEVELOPMENT SCHEME.	BESCOM	4 Weeks	6
Internship	STUDY ONMANUFACTURING TRANSFORMER, INSULATOR, CABLE &POLE.	KPTCL		4
Professional Practice which has to be carried out between 6th and 7th semester vacation.	Internship Subject code (15ISP85)	Fiabilite Network solutions, Bengaluru.	4 weeks	
Professional Practice which has to be carried out between 6th and 7th semester vacation.	Internship Subject code (15ISP85)	Kigyan Techno solutions, Bengaluru.	4 weeks	
Professional Practice which has to be carried out between 6th and 7th semester vacation.	Internship Subject code (15ISP85)	Digi transit interactive media solutions pvt. Ltd., Bengaluru.	4 weeks	

Professional Practice which has to be carried out between 6th and 7th semester vacation.	Internship Subject code (15ISP85)	Amba softwares. Hubli.	4 weeks	
Professional Practice which has to be carried out between 6th and 7th semester vacation.	Internship Subject code (15ISP85)	Anaa infotech. Davangere.	4 weeks	
INTERNSHP	Industrial Institute Internship program	Rove Labs	July to August (1 Month)	77 Students
		Sigma Ash Solutions	July to August (1 Month)	23 Students
INTERNSHP	Industrial Institute Internship program	HAL	July to August (1 Month)	04 Students

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

Organisation	Date of MOU signed	Purpose and Activities	Number of students/teachers participated under MoUs
ICT Academy	14-03-2018	------	350 students and 32 faculty members
Kigyan Banglore Fiabilite network solutions Banglore	25/06/18	Internship	91 students
Cargill India Pvt. Ltd., Belludi, Harihar Taluk	13/07/2016	Industrial Training of UG students	-
India Cane Power Ltd, Samsons Distilleries, Duggavathi, Davangere	07/06/2016	Conducting collaboratively R & D activities and student training activities	-

Hand Loom and Textiles Govt.of Karnataka	24/04/2018	Skill up gradation center and Centre of Excellence in Textiles under Nuthana Javali Neethi	07
Whizchip Design Technologies Pvt. Ltd., Bangalore	27-09-2018	Training the selected students	43/4
VI solutions, Bangalore	29-10-2018	Supporting R&D Projects	-----
Vidvath Technologies Pvt. Ltd., Davangere	27-09-2018	Providing internship, industrial visits and placement opportunities	-----
Kigyan, Banglore Fiabilite Network soloutions, Bangalore	25/06/18	Internship	91 students

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
Rs. 11,50,50,000 = 00	Rs. 8,63,18,956 = 00

4.1.2 Details of augmentation in infrastructure facilities during the year

Facilities	Existing		Newly added
Campus area	64 Acres and 26 Guntas		Nil
Class rooms	UG - 86	PG - 27	Nil
Laboratories	UG - 92	PG - 19	07
Seminar Halls	08		1- Placement Cell
Classrooms with LCD facilities	41		1
Classrooms with Wi-Fi/ LAN	LAN: 06		--
Seminar halls with ICT facilities	05		01
Video Centre	--		
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	03		
Value of the	Rs. 15, 11, 261=00		

equipment purchased during the year (Rs. in Lakhs)		
Others		

4.2 Library as a Learning Resource

4.2.1 Library is automated {Integrated Library Management System -ILMS}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
Easylib Software	Partially	5.0 web version	2005

4.2.1 Library Services:

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	57151	19870198.04	3245	1494491.81	60396	21364689.85
Reference Books	25616	5951077.20	158	119101.25	25774	6070178.45
e-Books	3216				3216	
Journals	169	345337	146	345137.00	146	345137.00
e-Journals	1811	1266500	1811	2013250.00	1811	2013250.00
Digital Database CD & Video	1613				1613	
Library automation		1261676.00	01 (LASER PRINTER)	32627.00		1294303.00
Weeding (Hard & Soft)						
Others (specify)						

4.3 IT Infrastructure

4.3.1 Technology Upgradation (overall)

	Total Computers	Comput-er Labs	Internet	Browsing Centres	Computer Centres	Office	Depts.	Available band width (MGBPS)	Others
Existing	1209	32	YES	2	2	38	16	59	
Added	00	00	YES	0	0	0	0	95	
Total	1209	32	YES	2	2	38	16	154	

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

154 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
NPTEL Online Courses E-Resources	http://www.bietdvg.edu/Library/info.html http://www.bietdvg.edu/Library/OnlineCourses.html http://www.bietdvg.edu/Library/e_resources.html

4.3.4 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
Ashwini M Rao Puneeth S P Gowramma B H Anitha G Vinay M T Chandhan V	Engineering Maths-4 Software Engineering Design & Analysis of Algo Microprocessor & Microcontroller Object Oriented & Concepts Data Communication	Videos & PPT	5th Feb 2018

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 (Rs.)	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
3,11,38,000=00	2,34,45,120=00	4,29,00,000=00	2,85,50,446=00

4.4.2 Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. *(maximum 500 words)* **(information to be available in institutional Website, provide link)**

BIET believes in a broad based education and believes in providing state art infrastructure facilities to achieve excellence in academics and research. Policy of the Institution for creation and enhancement of Institute's infrastructure facilities is in line with the objectives laid down by the Governing body. Creation of infrastructure is as per AICTE norms; additional infrastructure facilities are created based on changes in the curriculum, introduction of new courses and research requirements.

Institute has an excellent physical infrastructure in the form of buildings with class rooms, laboratories, seminar halls, staff rooms, R&D centers, drinking water supply, reprographic facilities, rest rooms etc. All these facilities are constructed as per AICTE norms with lot of light, ventilation and extra space for free movement of the students. Further, provision is made in each building for its vertical growth. The green gardens within the campus are an attraction for not only the students but also for the public. BIET campus is known as "Walkers' Paradise" as many people come here for a morning walk every day.

Laboratory equipments, devices, computers and related software are procured in a systematic way and upgraded periodically based on the changing curriculum and intake. The institute has

25 Mbps Airtel Leased line Internet and 2 Mbps BSNL Broad Band Internet facilities.

The boys hostel has three blocks with a built up area of 12880 sq.m. spread on area of 4.5 acres. There are 200 rooms accommodating 608 students. The rooms are well furnished and the hostel has lush green surrounding. Stationery shop and internet facility are provided in the hostel. Surveillance cameras are installed in the hostel blocks for the safety and security of the students. "Amrutha", ladies hostel within the campus accommodates 300 boarders with 100 rooms. This hostel has one block with four floors and has a built up area of 6500 sq.m. Solar hot water facility is also available. All hostel blocks are provided with water purifiers. Round the clock security is provided. Surveillance cameras are installed in the hostel blocks and at some strategic places in the campus for the safety and security of the
students. For uninterrupted power supply in the college campus (including hostels), two generators of 180kVA & 200kVA capacity have been installed in the college campus.

The institute has EDUSAT facility, VTU recognized e-learning lab through which first year students get study material and NPTEL videos on various subjects available for students and staff. ICT enabled teaching methods are
extensively employed by the teachers in many departments. The institute is a member of VTU consortium for library resources. The Library & Information Centre is housed in the Administrative Block & having three floors including two mezzanine floors, with an area of 3175 sq.m. The library has a seating capacity for 600 users at a time. It has adapted open access system and maintains Online Public Access catalogue (OPAC) to provide easy access to the stacks. The library subscribes to 184 print journals and a good number of e-journals through VTU-Consortium subscription. The Institute has membership of DELNET consortium where the faculty and students can access over 750 scientific journals and 850 Engineering journals. A library advisory committee of the institute monitors the library growth through a qualified librarian. In addition to the general library, the engineering departments have exclusive department libraries for quick and easy access of books by staff and students.

Institute provides high quality sports facilities. Grounds for games like Cricket, football, hockey, and courts for Basket ball and Tennis are available within the campus. Indoor games such as shuttle badminton, table tennis, chess, carom etc, for both boys and girls are available. State of art 12 station Multi Gym facility is also available in the campus. A number of tournaments/ athletic meets of university / zonal/district level are organized every year. Institute has the distinction of sending students to represent university consistently every year. Every department has its own sports activity conducted annually for the entire college.

The Training and Placement cell of the institute has the entire infrastructure for conducting campus interviews with a modern seminar hall, group discussion room, office etc. A state of the art auditorium of capacity 300 is also being built for training and placement activities. Institution has cooperative society within the campus. Institution also has Bapuji Cooperative bank to provide banking facility for students and staff. Some percentage of the total revenue is earmarked for maintenance of campus facility. The institution has separate maintenance section for maintaining buildings, electrical works, housekeeping, CCTV system, etc. Maintenance of UPS/generators, computers, networking maintenance, and telecom maintenance is managed by staff ear marked for maintenance activities. Periodic calibration of laboratory equipment is carried out by the instructors of laboratories concerned.

A fully air conditioned auditorium is being built with a seating capacity of 700 and equipped with stage, public address system, LCD projector, and internet and Wi-Fi facilities. Institute is planning to have ERP software to completely automate student information, administration, library and other activities of the institution.

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	--	--	--
Financial support from other sources			
a) National	E-PASS DTE Bangalore SC Davangere SC Davangere TRUST	1455 79 141 -- 4	29537310=00 3729020=00 7415980=00 -- 35400=00
			Total: 40717710=00
b) International	--	--	--

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
Brain storm under the Forum of BIOLIT	Regular activities	Students of all the 03 semesters	--
Special lecture on Totally Personality Development	21-2-2018	First year BE C-Cycle students : 378 Students	Sri.Krishna Mohan Das, ISCON, Bangalore
CREA	28th Mar to 1st Apr	56	Innovation unlimited
Soft Skills & Career Development	April 12th to 18th 2018	65	FACE & KRIYA
Soft skill Development	28-29th august 2017	75	Meghana N.R Corporate Soft skill trainer, Bangalore
Career Guidance	03rd October 2018	75	Kiran O.V Business development Associate, BYJUS, Bangalore
CREA	23/08/2018	5	BIET, Placement cell
TCS Ninja mock test	30/08/2018	06	BIET, Placement cell
Entrepreneurship camp	27/10/2018	02	NAIN cell, BIET
Yoga & Meditation	1st to 21st August	45	
Remedial coaching	1st to 21st August	10	Dept. faculty is involved
Soft skills	28-03-2018 To 2-04-2018	21	CREA , Bangalore
Soft Skills	24-08-2018	10	CREA , Bangalore

		To 28-08-2018		
Mentoring	01.08.2018		119	Faculty of MBA Programme, BIET.
Student Induction Program **(SIP)**-2018	13-08-2018 to 25-08-2018		790	BIET, Davangere
Personal Counselling and Mentoring	17-12-2018 to 22-12-2018		790	BIET, Davangere

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 by Guidance for Competitive examination	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive exam	Number of students placed
2017-18	Career guidance and advancement	04	08	04	08
2018	CREA	----	55		25
2018	Carrier Options after Graduation	-----	100	---	--
2018	Silver Peak, Japan	NIL	4		
2018 7	ERFOLG, Germany	NIL	5		
2018	GATE	Guided Mathematics Syllabus for Engineering PG courses	02	02	02

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	No. of grievances redressed	Average number of days for grievance redressal
NIL	NIL	NA

5.2 Student Progression

5.2.1 Details of campus placement during the year

On campus			Off Campus		
Name of Organizations	Number of Students	Number of	Name of Organization	Number of Students	Number of Students

Visited	Participated	Students Placed	s Visited	Participated	Placed
Vee Technologies	56	**28**	Bosch Automotive Electronics	10	
Madhura Garments	30	**4**			
Cerium Systems	21	**3**			
JMC Project	4	**2**			
BYJU's	150	**6**			
CADENCE	80	**0**			
NTT DATA	18	**1**			
AYUH-MEDITECH SOLUTIONS	10	**4**			
Ace Designers Ltd.	154	**7**			
State Street	180	**4**			
AppNM Info Solutions	90	10*			
BEL	145	**6**			
Gokul Das Exports	26	**6**			
Bosch Automotive Electronics	23	**2**			
Sliver Peak - (JAPAN)	90	**16**			
Wiz Chip	43	**0**			
ABC	28	**2**			
Aissel Technologies	15	**2**			
UNIQLO	100	2*			
TCS	70	26			
VeeTechnologies	70	05			
JMC Project	70	01			
BYJU's	70	01			
Ace Designers Ltd.	70	07			
BEL	70	03			
Sliver Peak - (JAPAN)	70	02			
Technologics Global Pvt. Ltd	70	01			
5.2.2 Student progression to higher education in percentage during the year					
Year	Number of students enrolling into higher	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to

		education			
2017-18	10	B.E	CS&E	Universities at United States of America	MS and M Tech
2017	1	BE	E&CE	JIT,DVG	MBA
2017	1	BE	E&CE	MSRIT,BLR	M.TECH(VLSI and Embedded System)
2017	1	BE	E&CE	MSRIT,BLR	MBA
2017-18	01		E&E	UBDTCE,Davangere	The Power System
2018-19	01	Chemical Engineering	Chemical engineering Department	RVCE, Bangalore,	M.Tech (Chemical)
2018-19	01	Chemical Engineering	Chemical engineering Department	B.I.E.T, Davanagere	M.Tech(Environmental)
2018-19	01	Chemical engineering	Chemical engineering Department	Lincoln University, New Zealand	PG diploma in resource studies
2017-18	01	Chemical engineering	Chemical engineering Department	University of Nottingham, UK	M.S in Environmental Engineering
2017-18	01	Chemical engineering	Chemical engineering Department	NovaScotia, Canada	M.S in Petroleum Engineering
2018	04	B.Tech	Textile Technology	Universities of India, Paris, Rome	MBA & M S
2018	03	BE	Electronics and Communication Engineering	MIT	ME
2018	01	BE	Electronics and Communication Engineering	BITS-Pilani	ME(Micro Electronics)
2018	03	BE	Electronics and Communication Engineering	VTU	M.Tech
2018	01	B E	E & E	UBDTCE	M.Tech.
2018	01	MBA	MBA	IMS, Davangere University	Ph.D
2018	2	2018	IS&E	PES, B'lore and UVCE,	M.Tech.

				B'lore.	

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	No. of Students selected/ qualifying	Registration number/roll number for the exam
NET		
SET		
SLET		
IELTS	01	R3084225
GATE	13	ME18S11237017
GMAT		
CAT	03	
GRE	08	Hemang Jalali/2759476
		GnanithaMeka/2303306
		Ajith Kumar Mahato/2621905
		Abhishek Gargha Maheshwarappa/4109026
		Abhishek M Gupta/2618303
		Arjun Kirwadi Chandrashekar/4290685
TOFEL	07	Abhishek M Gupta/2618303
		Arjun Kirwadi Chandrashekar/4290685
Civil Services	01	Abhishek M Gupta/5809054
State Government Services	6	4BD15EE405, 4BD05EE040, 4BD11EE040,4BD08EE024 ,4BD11EE408,4BD12EE41 6,4BD11EE041
Any Other		

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

Activity	Level	Participants
Net Ball Selection (W), KNSIT, Bengaluru	VTU Single Zone Inter-Collegiate 09th – 10th Nov 2018	01 Girl
Athletic Meet (M&W), SJCIT Chikbalapura	VTU Inter- Collegiate 26th to 29th Oct 2018	04 01 girl and 03 Boys
Throw Ball (W) BIET, Davangere	VTU Center Karnataka Zone Inter Collegiate Tournament 09th -10th Oct 2018	12 Women (BIET) 10 teams participated
Best Physique (M), GIT Benagaluru	VTU Single Zone Inter-CollegiateTournament , 31st Sept 2018	01 Boy
Cricket Selection (W), SVIT, Bengaluru	VTU Single Zone Inter-Collegiate 26th Sept 2018	01 Girl

Basket Ball (M), PESITM, Shivamogga	VTU Center Karnataka Zone Inter Collegiate Tournament 14th -15th Sept 2018	07 Boys
Tabale Tennis (M) KIT, Tiptur	VTU Center Karnataka Zone Inter Collegiate Tournament 3rd – 4th Sept 2018	05Boys
Kho Kho(M), AIT, chikkamagalur	VTU Center Karnataka Zone Inter Collegiate Tournament 6th& 7th April 2018.	12 Boys
Cricket (M), J N N C E Shimoga	VTU Center Karnataka Zone Inter Collegiate Tournament 27th February 02nd March 2018	16 Boys
Foot Ball (M), SIT Tumkur	VTU Center Karnataka Zone Inter Collegiate Tournament 23rd February 2018	16 Boys
Athletic Meet (M&W) , VTU Belagavi	VTU Inter- Collegiate 3rd to 6th November 2017.	21 (17 boys and 4 girls)

5.3 Student Participation and Activities

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

Year	Name of the award/ medal	National/ International	Sports	Cultural	Student ID number	Name of the student
2018	1st place	College level	Relay 4x200mt	--	4BD16BT007	Ganavi D
2018	1st place	College level	Relay 4x100mt	--	4BD16BT007	Ganavi D
2018	3rd place	College level	Hammer through	--	4BD16BT007	Ganavi D
2018	18th VTU YOUTH FEST 1st prize	NATIONAL	---	01	Z06 24	

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

BIET Students' academic council for the year 2017-18 was formed on 8th October 2017. President of the council was Principal. Dr.K.C.Devendrappa, Associate professor Department of Mechanical Engineering and Mr. M.C. Patel Faculty in Department of Textile Technology were nominated as conveners of student Academic Council. ETHNIC DAY-2017 was celebrated on 5th Nov.2017. Mr. Bhubalan Asst. Commissioner inaugurated the student council and Ethnic day.-17.

DAVANA-17 Cultural Fest of BIET was organised on 5th and 6th April 2018. Students of BIET from Various departments participated in all the events like, Debate, Mad adds, Mime, Musical Instrument, Folk dance, Group dance etc.

Programme was inaugurated by the Mayor of Davanagere Municipal Corporation. Inauguration was held in SS Mallikarjuna Cultural Centre BIET. Sri. A.C. Jayanna Chairman BIET Presided over the function. Principal, Director, all heads of Department and Faculty were present.

Students from BIET Davanagere Participated in the VTU YOUTH FEST which was held at Angadi institute of Technology, Belgaum, on 12th and 13th April 2018. Students were accompanied by Conveners. BIET students secured first Prize in MIME event.

5.3 Alumni Engagement

5.3.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words): YES

BIET Alumni Association came in to existence in the year 1994 with the then principal Prof. G.S.Shivanna as president and Dr. Sharanaprabhu, Faculty in Mechanical Engg. Dept. as Secretary. During this period few activities were conducted within the preview limits. In the year 2005, Mr. S.B.Patil, Faculty in Civil Engg. Dept. took the charge as secretary and Prof. Y. Vrushabhendrappa, the then principal continued as president in the year 2009, one Alumni meet was conducted under the President ship of Dr. B.T. Achyutha, the then Principal as president and Mr. S.B. Patil as secretary. This Meet has helped many students of BIET for their Placement and Training. In the year 2010, Mr. M.C. Patel senior Faculty in Textile Dept, took the Charge as secretary of BIET Alumni Association and conducted one Mega Alumni Meet 0n 1st May 2010. During this meet, many students working across the country participated in the meet and exchanged their experiences and relished their memories. This meet has helped many students for seeking jobs.

In the year Jan. 2012, the BIET Textile Alumni Meet was held under the leadership of M.C.Patel Senior faculty of Textile Dept, and Secretary of BIET Alumni Association Dr.S.Subrahmanya Swamy, the present Principal was the president and Prof. Y. Vrushabendrappa, present Director of BIET was the Advisor. Many textile students working across the country and world participated and helped many textile students for their placement. On this occasion, the Heads of Textile Department who have rendered yeoman Service for the growth of Textile department from the day of inception were felicitated.

Every year the association organises alumni meet in various departments in the institute. Alumni of various departments actively participate in institute's activities by participating or contributing in various capacities.

5.3.2 No. of enrolled Alumni: UG: 780   PG: 1130 (MBA)

5.3.3 Alumni contribution during the year (in Rupees) :   NIL

5.3.4 Meetings/activities organized by Alumni Association :
1. Dept. of Mechanical Engg.
Date: 10-02-2018
Batch : 1988-92
No. of Alumni attended the meeting: 15
Date: 26-09-2018
Batch: 1989-93
No. of Alumni attended the meeting: 26
2. Dept. of Electronics and Communication
Date: 30-06-2018
No. of Alumni attended the meeting: 30
3. Dept. of Textile Technology
Date: 21-08-2018
Batch: 1997-98
No. of Alumni attended the meeting: 10
4. Dept. of Civil Engg.
Date: 28-10-2018
Batch: 1989-1993

No. of Alumni attended the meeting: 40
5. Department of Biotechnology
Date: 25.03.2017
Batches : Output 2007, 2008, 2009, 2010, 2012, 2014, 2015, 2016
No. of Alumni attended the meeting:15
6. Dept. of Computer Science & Engg.
Date: 22-12-2018
No. of Alumni attended the meeting:20

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)

Decentralization: The institute has a Governing Body working under BEA. The Governing Body is the supreme authority in taking decisions related to the vision and mission, policies, road map, development and functioning of institute. The action plan is formulated by the planning body which includes Principal, Director, Deans, and heads of the department and coordinators of various academic committees. The Principal of the institution is the member secretary of the Governing Body. This body provides suggestions, monitors the procurement, and decides on the introduction of new programs and welfare activities. The head of the institution is responsible for academic, nonacademic and administrative activities of the institution.

Participative Management: The college promotes a culture of participative management. The responsibility of managing the institution for its progress rests on the faculty, Heads of the department, Deans, Principal and Director. Various committee members work as a team for the betterment of the institute. At each level, there is an active participation in planning and implementation. Head of the Department is involved in development, procurement, selection of new faculty, starting of new programs, and organizing invited/technical talks, seminars, workshops, Faculty development program etc.

6.1.2 Does the institution have a Management Information System (MIS)?
Yes/No/Partial:

YES : The institute has established a full fledged ERP System (**www.contineo.in**) with the following modules:

1. **Accredia OBE Features** (OBE Planning Module, OBE Special Courses, OBE for internal assessments-direct, University Exam attainment, In-direct Assessment Module, Attainment Reports and Analysis, Course, PO Outcome action items)

2. **Accredia Plus Features** (Student Admission and Document Store, Admission Approval and Confirmation, Student Admission Photo, ID and USN, Fee Module and Integration, Academic Staff Profile and Assignment, Staff R&D Activities, Academic Planning and Calender, Academic Delivery and Progress Review, Feedback, Lesson/Content Storage and Retreival, Student's 360 degree View, Student Proctering and Counselling, Student and Parent Communication, Class Committee Meeting, Semester End Finalisation, Library, Mobile Application, Seating Arrangements and Logistics)

3. **Data Migration & Security** (Historical Data Migration, Security Backup and Archival)

All the activities of the above modules will be regularly updated as and when the information is collected and regular reports are generated for analysis. Dean (academic) will conduct regular meetings of all the ERP coordinators, HODs and other concerned staffs for the analysis of data generated. After the meetings, if any discrepancies are found in the data generated, suitable remedial measures are taken to improve upon the students/teachers performance and other stake holders.

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):

- ❖ **Curriculum Development:** The faculty have actively contributed to the development of curriculum in Visvesvaraya Technological University, Balagavi, Davangere University, Mysore University and Kuvempu University etc. Similarly, faculty members have contributed to curriculum development in autonomous Engineering such as R V Institute of Technology, Siddaganga Institute of Technology, Tumkur. Interactions with industry, institutions and the service sector have enabled BIET to identify inadequacies in the syllabus. Their feedback has been taken into consideration, and suitable suggestions are communicated to VTU, Belagavi for needful changes. Experts from industry are consulted and involved during the process of curriculum development at the university level. Their feedback is also taken to start new courses based on market dynamics.

- ❖ **Teaching and Learning:** Institution has the strategy of planning academic activities, before the commencement of the semester/year. The academic calendar is given by the affiliating University and the faculty prepares lesson plan. Internal evaluation is carried out by the faculty, and semester examinations are

conducted by the University. The evaluation results are analyzed and students' feedback is obtained, and if necessary, changes are made in the delivery of subject. The institute promotes innovative teaching learning methods and extensive use of Information and communications Technology. Faculties are encouraged to attend workshops, seminars, faculty development programs and Induction program for skill upgrading and

modernizing teaching methodology. Institution conducts skill training for students. Encourage students to participate in industrial projects. Extensive use of PPT, NPTEL videos, Teaching aids.

- ❖ **Examination and Evaluation:** Various methods of analysis are adapted to ensure the achievement of the stated objectives of curriculum such as University examination results are analyzed. This is carried out as follows: • After the announcement of results from the university, percentage

pass in individual subjects and over all pass percentage in each semester are calculated for all disciplines separately. Subject in which the percentage pass is less compared to other subjects is identified. • The staff members who were handling such subjects will be required to explain the causes and Head of the department will review the lesson plan, subject notes etc., and suggestions, if needed, are given to the faculty to improve their performance. Students have to appear for internal assessment tests every month in a semester. Totally there will be three such tests for each subject. After the test paper evaluation, analysis of performance is carried out in the department level. Feedback from the students is taken on teachers performance. The performance of the students in the tests and semester examinations is monitored by an Internal Academic Audit group to evaluate the academic progress of the departments in particular and institute in general.

- ❖ **Research and Development :** Faculties are encouraged to pursue research by providing them leave for higher studies. Faculties are motivated to carryout consultancy work with industries. Faculties are motivated to carryout research in association with industries and institutes of repute. Signings of MOUs with industry to conduct industry related projects, sending students for internship and skill development. Faculties are provided with Library and Laboratory facility for research work. Faculties are motivated to contribute their research articles in conferences and reputed journals. Forward the research project proposals for sponsorship from various funding agencies.

- ❖ **Library, ICT and Physical Infrastructure / Instrumentation** : The institute has EDUSAT facility, VTU recognized e-learning lab through which first year students get study material and NPTEL videos on various subjects available for students and staff. ICT enabled teaching methods are extensively employed by the teachers in many departments.

- ❖ **Human Resource Management :** Potential talents of the students are explored through extra-curricular activities. These talents will be nurtured and a platform is provided for exhibiting their expertise through departmental forums. HR management is well defined for staff recruitment based on the merit of the applicant. Recruitment is based on guidelines of AICTE. Interviews are conducted for prospective candidates after initial screening by the interview committee. Interview committee generally consists of subject experts from Institutes of repute and industry. Institute encourages faculty to attend seminars, workshops, invited lectures, research activities. It also conducts the training and induction programs for the employees. Promotions to eligible faculty on requirement basis. Amount collected through consultancy will be shared among the faculty. Encourage faculty to acquire higher qualification.

- ❖ **Industry Interaction / Collaboration:** Regular industry-institute interaction programs are being arranged to introduce the industry readiness and work culture. Institute has signed MoUs with industries. Institute conducts regular meetings and gets suggestions for curriculum developments. These suggestions are forwarded to the University for incorporating in the syllabus, as and when revised. Industrial visits and training in the respective domains. Industries will be requested to provide internship, awards to meritorious students and financial assistance for research.

- ❖ **Admission of Students :** The admission process is under the control of the State Government, COMEDK and managements. The college maintains student admission details in office and admission section of the institution. The institute also maintains students' previous history records with regard to their, family background, education details in the college. The file also includes the students' interest in co-curricular and extracurricular activities. These details will serve as input for improvement of the student in the first year and subsequent years. Institute provides infrastructure for CET Admission cell every year so that students from across the state can visit BIET during document verification process. This would be like a marketing activity of the institute to attract high

quality students. Based on the analysis of admissions, steps are taken to improve the admissions through articles in news papers, special programs, exposure programs to pre university teachers to make them aware of the advantages and job opportunities in these areas. These activities have resulted in the increased intake in the departments concerned. Faculties have participated as resource persons in orientation program conducted by many organizations for the benefit of pre university students. Most of the events conducted in the institute are published in newspaper to build image of the institute. Training and Placement activities are effectively monitored and companies of repute are invited for placements. Experts in engineering domain and well known dignitary are invited to build the brand image of the institute.

6.2.2 : Implementation of e-governance in areas of operations:
❖ **Planning and Development :** Presently office related correspondences such as establishment, admissions, cash section, exam, stores, scholarship, accounts, salary, projects, and dispatch are being operated with "Contineo ERP Software".
❖ **Administration:** Presently office related correspondences such as establishment, admissions, cash section, exam, stores, scholarship, accounts, salary, projects, and dispatch are being operated with "Contineo ERP Software".
❖ **Finance and Accounts:** accounts, salary, projects, and dispatch are being operated with "Admin software".
❖ **Student Admission and Support :** Institute has obtained ERP for student and faculty governance, teaching-learning processes and learning management systems.
❖ **Examination :** All the exam related data and management activities are conducted through Contineo ERP software.

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
10-02-2018	Dr.B E Basavarajappa Dr.H R Mallikarjuna Miss. Shwetha U R.	"Chemistry of nanomaterials and their Engineering application" at AIT, Chikkamagaluru.	BIET, Davangere	Given TA/DA
2018	Waseem Khan	Firewall Installation, Configuration and Management	ICT Academy	Rs.1500.00
2nd to 4th Jan 2018	Nirmala G	Computer Network Using Network Simulator	---------	Rs.1500/-
11th to 12th Jan 2018	Bhagya Shanthkumar	Computer Networks Simulations Using NCTUNs and Networking Concepts, Algorithms Using C-Programming	---------	Rs.500/-
29th Jan to 2nd Feb 2018	Lingaraj	Recent Trends in LTE	---------	Rs.1950/-
2018	Triveni M T	VTU sponsored three day workshop on DSP lab	BIET, Davangere	1,000/-
2018	Sowmya Anand	VTU sponsored three day workshop on DSP lab	BIET, Davangere	1,000/-
2018	VijayalakshmiHallikeri	One day workshop at SCEMMangaluru,byVTU,Belagavi	BIET,Davangere	1,650/-
2018	Dr A G Shankarmurthy	ICDEM-2018, NITK SURATKAL		6000/-
2018	Deviprasad N M	NCGEESD-18, Presidency university Bangalore		1500/-
2018	Deviprasad N M	CFD Traditional finite volume technique IIT Dharwad		3500/-
2018	Shwetha U R	Intellectual Property Rights(IPR)	KSCST-GMIT IPR Cell, Davangere	Registration fee and TA/DA provided by the

				institute
2018	Dr.K.Murugesh Babu	Advanced Training Programme on Electrospinning of Nano fibers	---	Rs.11,000.00
18th - 19th MAY2018	Prakash K.M	2018 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Engineering,Sri Venkateshwara College of Engineering,Bengaluru	____	Rs.6000/-
June, 2018	Vijay K S	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
Dec, 2017	Vijay K S	Workshop on "Crafting and Conducting High Quality Research"	IIM, Ahmedabad	Rs. 3000
Nov, 2016	Vijay K S	2ndInternational Conference on Inclusive Economic Growth & Sustainable Development	SDMIMD, Mysore	Rs. 3500
June, 2018	Prashanth Kumar O	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Dr. Swamy Tribhuvananda H V	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Dr. Sujith Kumar S H	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Dr. Prakash S Alalageri	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Mr. Satish D Raikar	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000

June, 2018	Mrs. Saroja S	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Mrs. Rathna N	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Dr. Sunil M Rashinkar	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Mrs. Shruthi Kanthraj	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Mr. Muhammed Muthaqueem	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Ms. Inchara Murthy	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Mr. Manjunath B R	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000
June, 2018	Mrs. Pooja Patil	Faculty Development Programme – "Gamification in Learning and Development"	MBA Programme – BIET	Rs. 1000

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

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching staff)
2018	Microcontroller Training	ARM Cortex M3 microcontroller	23rd to 24th Jan 2018	06	43
2018	Foundation Program in ICT	Foundation Program in ICT for Education-	March 11th 2018	12	01

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	for Education-101X	101X	to April 21st 2018		
2018	Semiconductor Memories	------	29th Sep 2018	12	-----
2018	MATLAB and its Applications	------	1st Oct 2018	2	-----
2018	Machine Learning Concepts	------	3rd Oct 2018	5	-----
2018	DSP applications	------	4th Oct 2018	5	-----
2018	Safety Critical Mission Ctitical Avionics Applications	------	5th Oct 2018	4	-----
2018	Anavarana		Quarterly	14 Faculty	
2018	Library Automation	KOHA and Library Automation	12th Oct 2018		25
2018	One Day National Conference on Recent Trends on the Applications of Science in Engineering (NCRSE-2018)	----	28-09-2018	60	---

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	Date and Duration (from – to)
Faculty development programme at Biocon, Bengaluru	one	3-14th July 2017
Faculty development on Protein design &Engg IISc, Bengaluru	one	10-14 July 2017
Student induction Program for First year Engineering Students	one	07-06-2018 to 09-06-2018
Firewall Installation, Configuration and Management	01	8-1-2018 to 12-01-2018
professional development for Oracle Academy course on Java fundamentals	01	12-01-2018
System Software and Compiler design/Operating System Laboratory	02	17-01-2018 to 19-01-2018
Learn-In Women in Technology	01	20-01-2018
ARM Cortex M3 Microcontroller	02	23-01-2018 to 24-01-2018
Data Science with Python	01	15-2-2018 and 16-02-2018

Pedagogy Training in Technical Education	02	20-02-2018 to 24-02-2018
IoT, Data Analytics and Software Defined Network	20	16-03-2018.
Data Science and Analytics	02	10-11-2017and 11-11-2017
Python	02	21-08-2017 to 23-08-2017
TTT Program on Data Visualization Tools	02	06-09-2017 to 08-09-2017
Hands On Training Program On Intellectual Property Rights and Patents.	1	23RD Apr to 2nd May 2018
VTU sponsored three day workshop on DSP lab	02	3 days (From 28-01-2018 to 30-01-2018)
Industrial Automation Using Hydraulics, Pneumatics & PLC	01	12 days (From 1-01-2018 to12-01-2018)
Arm Cortex M3 Microcontroller Latest Advancements In Power Engineering Sectors.	03	2 days From(23-01-2018 to 24-01-2018)
Iots in Transforming Rural Healthcare System and Point of Care Testing	01	2 days From(8-12-2017 to 9-12-2017)
Latest Advancements In Power Engineering Sectors	02	4 days From (8-01-2018 to 11-01-2018)
Pythan APP Development	02	25th & 26th Dec 2017
IoTs in Transforming rural Health care system & point of care testing	03	8th & 9th Dec 2017
Research Forntiers in Advanced Networking, Security & IoT-Tool Driven Approach	01	11th to 23rd Dec 2017
Andriod Developer Fundamentals	01	21st to 25 th Jan 2018
Firewall Installation, Configuration & Management	01	08th to 12th Jan 2018
Emerging Trends in Knowledge Discovery & Data Analytics	01	16th to 21st Jan 2018
Data Science With Python	01	15th to 16th Feb 2018
Two week National level FDP on Research Frontiers in Advanced Networking, Security and IOT-A tool driven approach	01,Sanjay K N	11th-23rd Dec 2017
Workshop on Intellectual property Rights	02	06-04-2017
Advanced Training Programme on Electrospinning of Nano fibers and their applications.	01	23-25 Jan-2018
Orientation program	6	13th to 25th Aug 2018
Gamification	14	29-30 June, 2018
"Crafting and Conducting High Quality Research	01	
Inclusive Economic Growth & Sustainable Development	01	
Machine learning and implementations	01	4/07/2018 to

			6/07/2018
Image processing and its research challenges	01		23/07/2018 to 27/07/2018
Web Technology and its applications	01		23/07/2018 to 24/07/2018
IPV6 networking fundamentals	01		27/08/2018 to 31/08/2018

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

Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime/temporary
UG: 216 PG: 23		116	16

6.3.5 Welfare schemes for

Teaching	1. Group Insurance Scheme 2. Higher Study Leave Facility 3. Sabbatical Leave Facility 4. Maternity Leave 5. Financial Assistance to attend national/international conferences, paper presentations 6. Medical facility
Non teaching	1.Group Insurance 2. Medical Facility 3. Maternity Leave
Students	1. Group Insurance Scheme 2. Financial assistance for paper presentation/attending conferences/workshops/seminars

6.4 Financial Management and Resource Mobilization

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

Once in 3 months, Internal Audit is conducted by the Data Centre and finally the accounts of the institute are audited by the M/s. Shanthappa & Co, company, the BEA Association's authorised auditing company

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/ Grants received in Rs.	Purpose
NIL	**NIL**	

6.4.2 Total corpus fund generated   Rs. 22,69,10,163=00

6.5 Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	--	--	YES	Principal, Dean (Academic) and IQAC Members
Administrative	--	--	YES	Principal, Dean (Academic)

				and IQAC Members

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

- Brain –storm activities for students
- Salesforce, Learnathon
- Oracle Academy Day
- Personality Development program for 2nd year students
- Parents visited to the department to check the progress of their ward
- Sending progress report to parents after every test

6.5.3 Development programmes for support staff (at least three)

- Promoted faculty to attend Conferences/ FDPs' and Workshops
- Awareness to the current needs of software Industries while installing the new software as per the VTU syllabus scheme

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

- Instruction Boards to all Laboratories
- Improvements in Filing system
- Implementation of Student centered activities
- Systematic counselling for students
- Motivating faculty members to write research proposals to Various funding organizations
- Faculty members are motivated to write research papers
- More Alumni- student interactions
- Continuous interactions with parents to reduce the shortage of attendance and improve performance
- Preparing the test question paper pattern according to the course objectives and course outcomes
- Insisting the Faculty members to send their research papers to the reputed Journals approved by UGC
- To give training for local unemployed people in the field of garment manufacturing,
- Spinning and weaving to upgrade their skill and create job opportunities
- To give hands on training to students in local textile industries and give coaching to students to prepare for post-graduation
- Three faculty having more than 15 years of teaching experience reported our department December 2018.
- 01 faculty having a teaching experience of 5 years has joined our dept. in August 2018
- 05 fresher's have joined the department in August 2018
- D-Space powered by Koha (to enrich the digital library)
- Unique training program introduced to our students at Pegsus institute, Pondicherry
- Introduce Art Club. Celebration, Mentoring etc

6.5.5
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 activity	Duration (from----- to------)	Number of participants
2018	Academic Meeting to discuss IQAC activities	01-06-18	2 hrs (10.30 – 12.30pm)	19
2018	Filing and Documentation Meeting	22-09-2018	1 hr (10.30 - 11.30am)	20
2018	Academic Audit Visits to various Departments	28-09-2018 to 16-10-2018	3 hrs for each dept. from 10.30 am to 5.00 pm)	IQAC Team members – 8 and respective HOD and Faculty of the department

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

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

Title of the programme	Period (from-to)	Participants	
	10-07-2018	Female	Male
Gender Issue Girl Child Security, Child Girl Assassination		100	156

7.1.2 Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the College met by the renewable energy sources

The institute has environment friendly policies with regard to plantation, waste management, use of solar water heating system, use of renewable energy resources and water harvesting. A strict ban is imposed on the usage of cigarettes and tobacco products within the campus. Proper directions are given to the staff and students to park their vehicles in the indicated parking areas. Dead leaves and waste papers are not allowed to be put on fire in the campus. These are converted into vermicompost. Food waste collected from institute boys' and girls' hostels is used to generate cooking gas in the hostel kitchens, through a bio-methanation plant designed by Dept. of Mechanical engineering. The institute gives top priority for planting the trees. The institute has a nursery to grow fruit and flower bearing plants. The hallmark of BIET has been its strong interface with the industries and institutions of repute. Institute has full-fledged product development center which is undertaking development of products and transfer the technology to the entrepreneurs who are in need. Industry Institute Interaction Cell has been very active in the institute.

7.1.3 Differently abled (Divyangjan) friendliness

Items Facilities	Yes/No	No. of Beneficiaries
Physical facilities	Yes	3
Provision for lift	Yes	3
Ramp/ Rails	Yes	3
Braille Software/facilities	No	--
Rest Rooms	Yes	3

Scribes for examination	Yes	3
Special skill development for differently abled students	No	--
Any other similar facility	Special/extra help in library and office	3

7.1.4 Inclusion and Situatedness

Enlist most important initiatives taken to address locational advantages and disadvantages during the year

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date and duration of the initiative	Name of the initiative	Issues addressed	Number of participating students and staff
2018	01	01	16-04-2018 to 04-05-2018	Technology Barrier Reduction Program **(TBRP)** (for Government Rural Kannada Medium High School Students)	Technology Barrier Reduction	44
2018	01	01	27-09-2018	Blood donation camp	Blood donation for needy people	130
2108	01	01	19-07-2018 to 30-07-2018	Swachh Bharath Summer Internship programme (SBSI)	Health Awareness, Rallies, Wall Painting, Door to Door Swachhatha Programme	205

7.1.5 Human Values and Professional Ethics

Code of conduct (handbooks) for various stakeholders

Title	Date of Publication	Follow up (maximum 100 words each)
Orientation on Human Values and Ethics	13th August to 25th August 2018	Code of conduct was initiated through this programme. A three weeks orientation programme was aimed at inculcating human values and professional ethics amongst the students and parents of engineering

		students admitted to the institute. Various special/expert lectures, video shows, yoga classes were organised to inculcate values on spirituality, health benefits, ethical values, language development, leadership qualities etc.

7.1.6 Activities conducted for promotion of universal Values and Ethics

Activity	Duration	Number of participants
Gender Issue Girl Child Security, Child Girl Assassination	10-07-2018	256
NGO, Donated Study materials to handicapped children. The Funds are collected from Electrical forum		48
Swachh Bharath Summer Internship programme (SBSI) – 2018, Health Awareness, Rallies, Wall Painting, Door to Door Swachhatha Programme	19-07-2018 to 30-07-2018	205
Rashtriya Sadbhavana Diwas, Oath Taking Programme	20-08-2018	720
Blood Donation Camp	27-09-2018	130
Kanasu- A Social project undertaken to improve the public relationship skills		25
Awareness on Anti- Ragging		52
NSS Day - Study materials distributed to Govt Higher Primary School, Naganur Village, Davangere	20-09-2018	20

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

1. **Energy conservation**
   - ❖ This institution is designed in such a way that every room has proper ventilation and natural lighting so as to minimize the usage of electric lights, fans and air-conditioners during the day thus reducing consumption of electricity.
   - ❖ Tube-lights and CFL bulbs are used inside the campus for bright light and lower consumption of electricity. It is also planned to introduce LED lights for further reduction in the consumption of electricity.
   - ❖ Outdated equipments in the laboratories of all engineering disciplines in the institute are being replaced with the latest equipments to avoid higher consumption of electricity.
   - ❖ All computers, UPS backups and the electrical appliances are periodically inspected and serviced in order to maximize the efficiency of the appliances and minimize the power consumption.
   - ❖ All the students and faculty members are instructed to utilize electrical power only when required.

2. **Use of Renewable energy**
   - ❖ Food waste collected from institute boys' and girls' hostels is used to generate cooking

gas in the hostel kitchens, through a biomethanation plant designed by Dept. of Mechanical engineering.
❖ Department of Chemical Engineering extracts Biodiesel from the paddy husk from and is being tested in small vehicles.
❖ Institute campus has solar street lights.
❖ Solar hot water facility is available for the students of both boys and girls hostel.

3. **Water harvesting**
❖ The gradient of the flow of the rain water is designed in such a way that all the rain water in the campus will be collected in one open well. This helps in recharging the ground water level in the bore wells of the institute.
❖ The drainage water inside the campus is redirected to one open pit so that it helps not only recharging the bore wells but also helps in recycling it for the growth of plants in the campus.

4. **Efforts for Carbon neutrality**
❖ All departmental buildings in the campus are surrounded by trees and lawns.
❖ A strict ban is imposed on the usage of cigarettes and tobacco products within the campus.
❖ Strict directions are given to the staff and students to park their vehicles in the indicated parking areas.
❖ All CRT monitors have been supplanted with LCD and LED monitors.
❖ Dead leaves and waste papers are not allowed to be put on fire in the campus. These are converted into vermicompost.
❖ Proper maintenance of air conditioning systems, employing solar hot water systems, use of electricity only when required, encouraging students to use public transport system are some of the efforts in the direction of carbon neutrality. The institute gives priority for growing trees in the campus. Water supply for plantation in the campus is planned in such a way that trees and lawns receive sufficient water throughout the year. The institute has a nursery to grow fruit and flower bearing plants. Generally whenever dignitaries visit the campus, they plant a sibling as a mark of their visit to the institute.

5. **Hazardous waste management**
❖ Biodegradable waste produced by departments of Chemistry, Chemical, Biotechnology and from campus hostels is collected at one place and red soil is spread over this to convert this into effective manure to be used for existing and new plants in the institute. Non biodegradable waste in the form of plastics, rusted steel and used papers and books will be disposed for recycling purposes.

6. **E-waste management**
❖ Outdated equipment and laboratory consumables from various departments of the institution are collected in one store room and will be disposed at the end of every year. E-waste is collected in a container and disposed of at the end of every year to the vendors of electronic equipment. Outdated computers are sent to schools run by BEA for reuse.

7.2 Best Practices

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

Best Practice-I
Title of the Practice: Project based learning and product development activities with industry interface.

Goal: Promote innovative thinking among students and faculty through their participation in industry related projects; blending technical skill development activities with the academics to enhance their employability / entrepreneurial rating; carry out product/process development to

cater to the needs of the industry and society.

Context: There is a growing feeling that the output of the technical institutions in general is not meeting the industry requirements. There is a yawning gap between the quality of the output and the needs of the industry. On one hand, according to All India survey conducted by Aspiring Minds, only 16% to 20% of the engineering graduates are employable. On the other, there is growing demand for engineering professionals and the demand can be to a tune of 500 million in the next decade.

Skill shortage remains one of the major constraints to the continued growth of Indian economy. Based on detailed surveys conducted by various bodies, on the basis of the skill factor analysis, it is said that employers perceive soft skills (core employability skills and communication skills) more important than professional skills. It is stated that higher order thinking skills are severely lacking in technical graduates coming out of engineering institutions.

BIET has to deliver the above said attributes in order to make an impact on the engineering educational map of India. The management has decided to inculcate innovative thinking and promote entrepreneurial qualities to enable our students to utilize those opportunities available to them. A systematic way of implementing these parameters has been followed in all engineering departments and the results obtained are highly encouraging.

Teachers have to be motivated to keep themselves abreast of the technological advancements and participate in active research along with students. This kind of teaching learning environment can be highly beneficial to the institute.

Best Practice-II
Title of the practice: Counseling and skill development programs for students.

The students joining BIET are more often from rural background and need assistance to improve their learning skills, communications skills, technical skills and personality developments. With this objective in mind, the student-teacher
interface is strengthened through monitoring of both teachers and students.

Goal: Primary objective of this practice is to create a conducive teaching-learning environment enabling both students and teachers to deliver their best. Students counseling should create confidence in them and should equip them to face the academic challenges in an efficient way.

Context: The management is committed to provide the best possible education to its students. BIET has understood the importance of imparting a broad based education through which one can stand on one's own legs and contribute meaningfully to the development of science and technology in particular and society in general.

7.3 Institutional Distinctiveness
Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust   **Provide the weblink of the institution in not more than 500 words**
The present focus of the institute is to improve the laboratory infrastructure by bringing new industry relevant technology to enable higher level of learning in students, foster integrated learning by providing multiple industry relevant interfaces, enable students to take up industry relevant projects and encourage faculty to take up research in thrust areas.   There are forty seven doctorate faculty members in the institute and many of the faculty

members have registered and pursuing research. Faculty members attend various workshops which in turn help them in self-growth and proper delivery of curriculum to students.

Eminent personalities from various industries are invited to the institute for delivering lectures and interacting with students. Some of the final year projects are carried out with the technical assistance from the industries. The institute regularly interacts and takes feedbacks from the industries. Experts from industries and other organizations work as evaluators in the technical activities organized by the institute.

The institute has environment friendly policies with regard to plantation, waste management, use of solar water heating system, use of renewable energy resources and water harvesting. A strict ban is imposed on the usage of cigarettes and tobacco products within the campus. Proper directions are given to the staff and students to park their vehicles in the indicated parking areas. Dead leaves and waste papers are not allowed to be put on fire in the campus. These are converted into vermicompost. Food waste collected from institute boys' and girls' hostels is used to generate cooking gas in the hostel kitchens, through a bio-methanation plant designed by Dept. of Mechanical engineering. The institute gives top priority for planting the trees. The institute has a nursery to grow fruit and flower bearing plants.
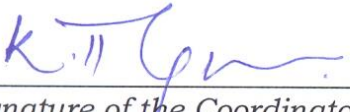
Thrust on Research and Development: Bapuji Institute of Engineering &Technology (BIET) has established research centres to carry out the research and innovation among the academia in the field of Science &Engineering. BIET puts great emphasis on research sustaining innovation and promote research culture among faculty and students in the institute.

The present focus of the institute is to improve the laboratory infrastructure by bringing new industry relevant technology to enable higher level of learning in students, foster integrated learning by providing multiple industry relevant interfaces, enable students to take up industry relevant projects and encourage faculty to take up research by providing ability to add customer logic. IBM has supported the activity with establishing Software Centre of Excellence. However, efforts are on the way to get state government assisted New Age Incubation Centre.

8. Future Plans of action for next academic year (500 words)

1. Institute has planned to go for NBA accreditation for 5 departments in the first phase. Subsequently accreditation for all the departments will be taken up in the second phase.

2. Institute is planning to train the faculty for the outcome based education as this is the need of the hour for all the engineering institutes as per the NBA requirements and CBCS syllabus prescribed by VTU.

3. Institute plans to encourage the faculty to improve their publications in refereed national and international journals.

4. It is proposed to improve ICT facilities in the institute by establishing ICT enabled classrooms, seminar halls and smart classrooms in all the departments.

5. Institute plans to introduce industry related training programmes for all the students in order to cater to the need based industry requirements.

6. It is planned to bring in improvements in student counselling/mentoring through progress reports, tutorials and extra coaching classes.

7. It is planned to improve alumni and parents meets in the institute.

Name Dr. K. Murugesh Babu

Signature of the Coordinator, IQAC

Name: Dr.S.Subrahmanya Swamy

Signature of the Chairperson, IQAC

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