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

ANNUAL QUALITY ASSURANCE REPORT (AQAR)
2019-20
Submitted to

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIAONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grant Commission
P.O.Box.No. 1075
Opp: NLSIU, Nagabhavi,Bengaluru – 560 072 India

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Part – A
Composition of IQAC

Sl. No.	Name	Designation
1.	Dr. H. B. Aravinda, Principal	Chairman
2.	Prof. Y.Vrushabhendrappa, Director	Member
3.	Dr. Anila Kumar C.P, Professor,	IQAC Coordinator
4.	Dr. K. Sadashivappa, Dean, Academics	Member
5.	Dr S.Suresh, Dean, Student Affairs	Member
6.	Dr.G.P.Desai, Dean, Dean,Public Relation	Member
7.	Dr. A.G.Shankara Murthy, Dean, R&D	Member
8.	Dr. Kumarappa.S, Dean, Examination	Member
9.	Dr. M.S. Nagaraja, Dean, Placement	Member
10	Dr. NirmalaC.R, Dean, IT Cell	Member
11.	Dr.Kotturu Shettar, HOD,Mechanical, BVB College of Engg, Hubli	External Member (Academics)
12.	Dr. Kamoji, HOD, Mechanical, KLE, Belgaum	External Member (Academics)
13.	Mr. Vageesh K Patil, GE, Bangalore	External Member (Industry)
14.	Mr. Halaswamy, Magod Lasers, Bangalore	External Member (Alumni)

<u>The Annual Quality Assurance Report (AQAR) of the IQAC</u>

<u>Data of the Institution</u>

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

- Name of the Head of the institution   : Dr. H.B.Aravind

- Designation   : Principal

- Does the institution function from own campus: YES

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

- Mobile no.   : 9844061789

- Registered e-mail   : principal@bietdvg.edu

- Alternate e-mail   : 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. Anila Kumar C.P
- Phone no.   : 08192-221461

   Alternate phone no.   : 08192-220938

- Mobile   : 94805 99788

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

- Alternate Email address   : principal@bietdvg.edu

3. Website address: www.bietdvg.edu
   Web-link of the AQAR: (Previous Academic Year): 2019-20
      http://www.bietdvg.edu/NAAC/AQAR_2019-20.pdf
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/AcademicCalender.pdf

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: 01-09-2016

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	25-10-2019 12-11-2019	22 08
2. Academic Administrative Audit	13-11-2019 to 16-10-2019	Academic audit meetings were held in all the departments to inspect the academic activities.
3. Participation in NIRF	--	
4. NBA Preparations	Five departments have uploaded the documents for NBA accreditation	Remaining departments are preparing to submit for NBA

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)
Biotechnolgy				
Dr.Manjunath N.S		NAIN, Dept		

Dr.B.E.Rangaswamy Biotechnology	New age Incubation	of IT, BT & Science & Technology, Karnataka	2019 One year	1.79 Lakhs
Chemical Engg.				
	--	VTU	2019-20	0.05
CS&E				
BIET/CS&E/Dr. Nirmala C. R.	NAIN	NAIN	2020	3 Lakhs
BIET/CS&E/Dr. Roopa G. M.	NAIN	NAIN	2020	3 Lakhs
E&C				
IS				
BIET/ IS&E/Dr. Poornima B.	K-FIST L2	VGST, Govt. of Karnataka	2019 02 Years	40 Lakhs
Textiles				
Dept.of Textile Technology BIET Davangere	Skill Upgradation Centre (Sewing Machine Operator Training)	Dept. of Handloom & Textiles Governemnt of Karnataka.	45 Days/Batch (02 Batches)	4,11,666

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
   (Please upload, minutes of meetings and action taken report)

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
     * All Departments are preparing to apply for NBA accreditation and five departments submitted the report to NBA for accereditaion
     * 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 2. IQAC
Date of meeting(s):

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   Date of Submission: 01-03-2019
2019-20   Date of Submission:28-01-2020

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
--	--	--	--	--

1.2 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
--	--	--	--

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				
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
--	--	--

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
--	--	--

1.3.2 Field Projects / Internships under taken during the year

Project/Programme Title	No. of students enrolled for Field Projects / Internships
Biotechnolgy	
1. Herbal medicine and related products 2. Study on Milk and Milk Products 3. Plant Tissue culture 4. Bioprocessing technology 5. Genetic Engineering Techniques 6. Plant/Unit operations 7. Pharmaceutical Biotechnology 8. Plant Physiology and pathology	26
Chemical Engg.	
Internship	13

Civil Engg.	
Internship	137
CS&E	
Smartbridge	135
CAS Infotech, UAE, DUBAI	6
CargoAI, Singapore	1
Networked	1
Quickcilver	2
Bezzie Innovation Lab	25
E&C	
LabVIEW by VI Solutions	60
Schneider Electric, Bangalore	4
Ideal Educraft Technologies, Bengaluru	25
Whizchip Technologies, Bengaluru	6
HAL, Aircraft Research & Design Centre, Bengaluru	3
HAL, Airport Services Centre (BC), Bengaluru	3
Technologies Global Pvt. Limited, Bengaluru	6
PathPartner Technologies Pvt. Ltd, Bengaluru	2
BSNL -RTTC, Mysore	1
METI M2M India Pvt. Limited, Mysore	1
EDN-BHEL,Bangalore	2
National Instruments	2
E&E	
Internship	60
E&I	
Internships	Offline :03 Online :15
IS	
Weather Application using Django	23
Application of Python in Data Science	11
Facebook Management System with RPA	7
Web Scrapping	2
Data Analytics using Python Programming	1
E-Mail Management System using Selenium Tool	3
Design and Development of Assortment Planner Algorithm for remark Platform	47
Blood Bank Management System	1
Android Application for Online Slots Booking	1
MechanicalEngg	
Internship Training Program	116
Textiles	
Internship	20
MCA	
Smart Menu Software Application, Java, Python, Android.	19
MBA	
Organization Study	119

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	--	74
2. Mechanical Engg.	120	--	65
3. Electrical Engg.	60	--	56
4. E&C Engg.	120	--	115
5. Comp.Sc.& Engg.	120	--	118
6. Textile Tech.	40	--	30
7. E&EI Engg.	30	--	08
8. Chemical Engg.	30	--	23
9. IS&E Engg.	120	--	117
10. Biotechnology	30	--	15

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
2019-20	3049	156	201	8	209

2.3 Teaching - Learning Process

2.3.1 Percentage of teachers usingICT foreffective teaching with Learning Management Systems (LMS), E-learningresourcesetc. (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
Chemical Engg.					
06	06	Yes	01	01	Yes
Civil Engg.					
29	29	LCS, Videos, PPTs Teams communication tool	1	1	NPTEL/Swayam/MOOCs
CS&E					
28	28	LCS, Videos, PPTs Teams communication tool	6	1	NPTEL/Swayam/MOOCs
E&C					
27	4	Yes	1	Nil	Yes
E&I					
6	6	Impartus, Google classroom	1	0	Power point presentation, Knimbus-VTU Consortium, MHRD-vlabs
IS					
24	24	**ICT Tools** 1.Desktop and Laptops 2.Projector and Webcam **Resources available** 1. E-Books 2. NPTEL 3. Youtube	03	--	**Resources Consortium:** Elsevier :E-Journals Elsevier :E-Books Taylor & Francis (E-Books) Taylor & Francis (E-Journals) Springer (E-Journals) Institution of Civil Engineers (ICE) KNimbus Digital Library Emerald

					McGraw Hill Education Sententia- An Assistive Tool for formal Writing (NetAnalytiks) New Age International Packt Turnitin
MechanicalEngg					
06	06	Camera, Computer & LCD Projector	04	04	NPTEL & VTU E-Learning, Edusat
Textiles					
07	07	LCD Enabled	03	NIL	E, books E, Library NPTELVideos and NPTEL books
Chemistry					
06	06	YES	06	01	Power point presentation, NPTEL
Physics					
02	02	--	01	01	NPTEL EduSat
Mathematics					
09	09	Yes	09	---	Yes
MBA					
14	14	Projector, Computer, WIFI, Internet, Speakers	10	Nil	Projector, Computer, WIFI, Internet, Speakers

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 any 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: 3049 PG: 156 (Total: 3205)	209	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	10	--	10	56

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 of award	*Name of full time teachers receiving awards from state level, national level, international level*	*Designation*	*Name of the award, fellowship, received from Government or recognized bodies*
Biotechnolgy			
2019-20	Dr.VinayaKumar J	Professor	*ASKEL Love Prize with Citation*
CS&E			
2020	Dr. Pradeep N	Associate Professor	**"Outstanding Teacher in Computer Science and Engineering"**, during 3rdGlobal Outreach Research and Education Summit and Awards 2019, organized by Global Outreach Research and Education Association
2021	Dr.Pradeep N	Professor	Appointed as **Senior Member, Iranian Neuroscience Society-FARS Chapter (SM-FINSS)** for a duration of TWO years (March

			1st 2021 to March 2nd 2023), SM-FINSS No.: **20301SMFINSS**
2021	Dr.Pradeep N	Professor	**Honorary Doctrine Engineering (D.Eng Honoris Causa)**, Iranian Neuroscience Society FARS chapter and Dana Brain Health Institute, Shiraz, Iran , Cert No. **0362021HonRINSS** dated **June 3rd2021**
IS			
2019-20	Dr. Poornima B.	Professor and Head	Regional Center Coordinator, IIT Bombay
			NAIN Center Coordinator, Govt. of Karnataka
2019-20	Mr.Chandan V.	Asst. Professor	KSCST State level best project award
2019-20	Mr.Sheik Imran	Asst. Professor	KSCST State level best project award
MBA			
2019	Dr. Sujith Kumar S H	Professor & HOD	SEBI Certified Financial Education Trainer
2020	Dr. Prakash S Alalageri	Associate Professor	Member of Board Examination

2.5 Evaluation Process and Reforms				
2.5.1 Number of days from the date of semester-end/ year- end examination till the declaration of results during the year				
Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester-end/ year- end examination
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 2019 Aug 2020	February 2020 Sept.2020

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(to provide the weblink)

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
BE				
BT	Biotechnolgy	27	27	100
CH	Chemical Engg.	13	13	100
CV	Civil Engg.	136	130	100
CSE	CS&E	139	129	93
EC	E&C	110	97	88
EE	E&E	60	52	86.67
EI	E&I	22	21	95
ISE	IS	104	103	99.04
ME	MechanicalEngg	116	116	100
TX	Textiles	44	42	95
MCA	MCA	19	19	100
MBA	MBA	112	102	91

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
Biotechnolgy				
Minor Projects	6 Months	KSCST	5000	5000
		KSCST	5000	5000
	12 Months	VTU Belagavi	50000	50000
Students Research Projects	6 Months	VTU	5000	5000
		VTU	5000	5000
		INSTITUTE (BIET)	6000	6000
		INSTITUTE (BIET)	6000	6000
Chemical Engg.				
Major projects	1year	NAIN	2.8 Lakh	Nil
Minor Projects	6 months	VTU	5000	5000
Students Research Projects	1 year	NAIN	2.8 Lakh	Nil
Civil Engg.				
Minor Projects	1Year	VTU	5000	5000
	1Year	VTU	5000	5000
CS&E				
Minor Projects	1 Year	NAIN	6 Lakhs	6 Lakhs
E&C				
Major projects	1 year	NAIN centre	1.7 Lakhs	Rs.31,500
Minor Projects	1 year	KSCST	Rs.7000	Rs.7000
Projects sponsored by the University/	1 year	VTU - AVISHKAR	Rs.5000	Rs.5000
	1 year	VTU FOSS	Rs.5000	Rs.5000

College	1 year	VTU	Rs.5000	Rs.5000
	1 year	VTU	Rs.5000	Rs.5000
E&I				
Student project	6 Months	KSCST	5500	5500
Student project	6 Months	VTU	5000	5000
IS&E				
Major projects	2 Years	VGST, Govt. of	40 Lakhs	2019
Minor Projects	1 Year	KSCST	4500	2019-20
	1 Year	KSCST	3500	2019-20
	1 Year	VTU, Belagavi	5000	2019-20
	1 Year	VTU, Belagavi	5000	2019-20
MechanicalEngg				
Major projects		VGST	20,00,000	10,00,000
Student project	6 months	KSCST	5,000	5,000
Student project	6 months	KSCST	5,000	5,000
Student project	6 months	KSCST	5,000	5,000
Student project	6 months	KSCST	5,000	5,000
Student project	6 months	KSCST	5,500	5,500
Textiles	----			

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)
Nurturing Creativity by Drawing Inspiration from Heart	Electronics & Communication Engineering	06-09-2019
Technical Talk on IC Development Cycle – Role of Standard Cells and Automation		19-10-2019
DSP Applications using MATLAB & DSP Processor		21-10-2019 to 25-10-2019
Automation of IOT		21-10-2019
One day Workshop on Awareness Program- Assistive Health Technology and Role of Engineers		06-11-2019

Object Oriented Programming Using C++		6-11-2019 to 11-11-2019
National Level Awareness Programme on KVIC & Khadi Gramudhyoga	Textile Technology	25-02-20
Two days online FDP on "Recent Trends in Information Science and Technology"	IS & E	15-05-2020 & 16-05-2020
One day Workshop on "e-SIM"		21-09-2019
One day workshop on LINUX		23-08-2019
Five days FDP on Effective Teaching-		15-07-2019 to 19-07-2019

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
E&I				
A Novel Approach on Ceiling Fan Based System to Avoid Suicide by Hanging	Basavraj P Hiremath, Raghavendra S Narasapur **II Place**	E&CE, BIET	12 April 2019	"Papyrus"– A State Level Technical Paper Presentation
	Basavraj P Hiremath, Raghavendra S Narasapur	BIET	25 April 2019	Davan-2019-Paper Presentation
IS				
Intelligent Hexapod Synchronzed Waste Collection System	Mr. Chandan V. Mr. Sheik Imran Amith P. Vernekar Divya D. Palankar Gagan R Shetty Nikhil H. V	KSCST	2019-20 43rd series	State level
Mechanical Engg				
Best project of the Year	Dr.K.Sadashivappa Mr. Umesh D E	KSCST	15-07-2020	Faculty
Anveshana regional award	Vishnu R A Divakarbabu G n	Agastya International	19-12-2020	Student

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
IS & E	Industry 4.0 – Center of Excellence	Rove Labs, Bengaluru

3.3 Research Publications and Awards		
3.3.1 Incentive to the teachers who receive recognition/awards		
State	National	International
--	--	--

3.3.2 Ph. Ds awarded during the year *(applicable for PG College, Research Center)*	
Chemical Engg.	01
CS&E	02
E&C	02
MechanicalEngg	01
Textiles	02
Chemistry	01
Physics	01
MCA	02

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			
	Physics	4	1
International			
	Biotechnolgy	8	1.5
	Chemical Engg.	02	1.80
	CS&E	31	4.62
	E&C	1	B- Impact Factor of
	E&E	01	3.7
	E&I	02	--
	IS	11	6.68
	MechanicalEngg	06	--
	Textiles	02	--
	Chemistry	03	1.9
	Physics	02	03
	Mathematics	03	--
	MCA	01	4.5
	MBA	07	5.92

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
CS&E	06
E&E	01
E&I	02
IS	02

MCA	02
MBA	14

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
Biotechnolgy						
Adsorption and Statistical Analysis of Textile Effluent Contaminated With Congo Red On Orange Peel	Veena Kumara Adi	International journal of innovative technology and exploring engineering	2019	1	Bapuji Institute of Engineering and Technology, Davangere	1
Clarification of water using *Moringa oleifera* as a coagulant.	Veena Kumara Adi	International Research Journal of Engineering and Technology	2019	1	Bapuji Institute of Engineering and Technology, Davangere	1
Utilization of spent wash for optimum production of bio surfactant using response surface methodology	Veena Kumara Adi	J. Mater. Environ. Sci	2019	0	Bapuji Institute of Engineering and Technology, Davangere	0
Areca husk fibres as agro-waste to value	Vasudeva Nayaka K B L	International Journal of Advanced	2019	0	Bapuji Institute of Engineeri	0

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Title	Author	Journal	Year	Citations	Affiliation	
added products in textile sector – a practicability study.		Research			ng and Technology, Davangere	
Evaluation of Nigella sativa (Black cumin) for anti-cancer and anti-inflammatory activities	Manjunath N S	International Journal of Herbal Medicine	2020	0	Bapuji Institute of Engineering and Technology, Davangere	0
Pulverized Maize Cob as a Recycled Agro Waste - A Feasibility Study	Vasudeva Nayaka K B L	International Journal of Waste Resources	2020	1	Bapuji Institute of Engineering and Technology, Davangere	0
Thermophysical Properties of Pongama Honge Oil Methyl Ester and Rubber Seed oil Methyl Ester for Wide Temperature Range	Dr. G P Desai	International Journal of Vehicle Structures and Systems	2019	1	Department of Chemical Engineering, Bapuji Institute of Engineering and Technology (BIET), Davangere, India	1
Chemical Analysis Fluoride in Groundwater of Hanamsagar Village using GIS	Dr. G P Desai	International Research Journal of Engineering and Technology (IRJET)	2019	--	M. Tech Environmental Engineering, BIET College, Davanagere	--
Civil Engg.						
Strength characteristics of polymer modified high volume fly ash concrete	Anial Kumar C P and Varun B K	Materials Today: Proceedings	2019	Scopus	BIET, Dacvangere	

Flexural and shear characteristics of polymer modified high volume fly ash concrete	Anial Kumar C P and Varun B K	Materials Today: Proceedings	2019	Scopus	BIET, Dacvangere	

CS&E						
"Optimized Data Mining Techniques for Outlier Detection, Removal, and Management Zone Delineation for Yield Prediction"	Dr. Roopa GM, Arun Kumar G H, Naveen Kumar K R, Dr. Nirmala CR	*Modern Techniques for Agricultural Disease Management and Crop Yield Prediction, IGI Global publishers, USA, Pages 222-258, 2020*	2020			1
"Intelligent Mobile Agent Framework for Searching Popular e-Advertisements"	Dr.G M Roopa, Dr. C R Nirmala	Progress in Advanced Computing and Intelligent Engineering, (Springer) vol 714, Pages 177-189	2019			1
"Intelligent Bot Architecture for e-Advertisements"	Dr.G M Roopa, Dr. C R Nirmala	Integrated Intelligent Computing, Communication and Security (Scopus Indexed) vol 771,Pages 21-31	2019			
"Firefly algorithm	Anupkumar M Bongale,	International Journal of Communicati	2019			2

inspired energy aware clustering protocol for wireless sensor network"	Dr. C R Nirmala	on Networks and Distributed Systems, Vol 23, Issue 3, Pages 380-411				
"Text localization in scene images with SURF and support vector machine for multilingual text"	SankhyaNayak, Dr. C R Nirmala	*International Conference on Data Science and Communication (IconDSC)" IEEE,* 2019	2019			1
"Hybrid location-centric e-Commerce recommendation model using dynamic behavioral traits of customer"	B R Sreenivasa, Dr. C R Nirmala	*Iran Journal of Computer Science (Springer) Volume 2, Issue 3,Pages 179-188*	2019			2
"Hybrid Cluster Head Election for WSN Based on Firefly and Harmony Search Algorithms"	Anupkumar M Bongale, Dr. C R Nirmala	*Wireless Personal Communications - Springer US,* Volume-106,Issue-2,Pages 275-306	2019			12
"Energy efficient intra-cluster data aggregation technique for wireless	Anupkumar M Bongale, Dr. C R Nirmala	*International Journal of Information Technology - Springer Singapore,*Pages 1-9	2020			6

sensor network"						
"Preprocessing of MR Images for Effective quantitative Image Analysis"	Gangadhar S., Naveena C.	*5th ICIIP, Solan, Shimla*	2020			
"Automatic Data Acquisition and Spot Disease Identification System in Plants Pathology Domain: Agricultural Intelligence System in Plant Pathology Domain"	Pradeep N	*Modern Techniques for Agricultural Disease Management and Crop Yield Prediction, 2019, IGI Publishers, USA*	2020			
"Knowledge Discovery (Feature Identification) from Teeth, Wrist and Femur Images to Determine Human Age and Gender"	Santosh K C and Pradeep N	*Machine Learning with Health Care Perspective, 2020,* ***Springer Publishers.***	2020			
"Prediction of Diagnostic Codes of Chronic Condition for Preventive	Pradeep N	*International Journal of Advanced Science and Technology,* *,****(Scopus Indexed),****Vol.*	2020			

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Care"		29, No. 03, (2020), pp. 6454-6463				
"Comparitive Analysis of native and Web -Based mobile Applications".	Shilpa K C, Salma Khanum, Vinutha K J, Nithin G K	International Journal of Emerging Technology in Computer Science &Electronics (IJETCSE) Volume 26 Issue 7	2019			
"Degree-Based topological indices on Anticancer Drugs with QSPR Analysis "	Shanmukha M C, Shilpa K C, N S Basavarajappa, Usha A	Heliyon 2020, 6, 1-9 *(SCOPUS Indexed and Web Of science)*	2020			
"Understanding the need of Data Integration for E-Healthcare"	ChetanaPrakash , Shashirekha H	International Journal of Trends in Scientific Research and Development(IJITSRD) , Volume 4, Issue 4,	2020			
"An Advancement in infotainment system in automotive Sector with vehicular cloud network and current state of art",	ChetanaPrakash Reshma S	International Journal of Electrical and Computer Engineering (IJECE), pp2077-2087, Vol-10, No.-2,	2020			
"An Unstructured to Structured Data Conversion	ChetanaPrakash, SauravVerma, Kshuboo Jain	*3rd International ; Conference on Innovative Computing*	2020			

using Machine Learning Algorithm in Internet of Things (IoT)"		*and Communication*				
"Noise Reduction Using Multilevel Hybrid Filters for Ultradound Images: A Comaprative Study"	ChetanaPrakash, Kavitha G	*IEEE 5th International Conference on Inventive Computation Technologies*	2020			
"Identification of Leaf Disease and Pesticides Recommendation Using ML",	ChetanaPrakash, P Chandramma	*International Journal of Advanced Research in Science, Engineering and Technology,* Vol - 7, Issue - 8	2020			
An Entropy Based Method for Outlier Detection and Removal in the Agriculture Data	Arun Kumar G H, Dr. Nirmala C R	International Journal of All Research Education and Scientific Methods (IJARESM), Volume 8, Issue 12, Page 1155-1161	2020			
Land Administration and Registration using Blockchain Technology	Ashoka K., Gnaneswari D. S.	*International Journal for Research in Applied Science & Engineering Technology*, Volume 8 Issue VIII	2020			
A Computation	N S Patil, Preethi	*IJITEE* **(SCOPUS**	2020			

al modeling for knowledge binding of the unstructured web data	B	**Indexed)**				
"Generalized Reciprocal SanskruthiInd ex:Chemical applicability and bounds"	M C Shanmukha, N S Basavarajappa, K N Anilkumar, K C Shilpa	Letter in Applied NanoBioscie nce Volume 9, Issue 4, 2020, 1595 - 1601	2020			
"Novel Neighbourho odredefined first and second zagreb indices on carborundum structures"	M C Shanmukha, N S Basavarajappa, A Usha, K C Shilpa	Journal of Applied Mathematics and Computing- Springer Publishers	2020			
"Dakshayani indices on carbon and Boron Nitride nanotubes"	N S Basavarajappa, M C Shanmukha, K M Niranjan, K C Shilpa	Letter in Applied NanoBioscie nce Volume 9, Issue 4, 2020, 1680 - 1686	2020			
M - Polynomials and Topological indices of Styrene- Butadiene Rubber(SBR)	M C Shanmukha, N S Basavarajappa, A Usha, K C Shilpa	Polycyclic Aromatic Compounds - Taylor & Francis, December 2020	2020			
Recognition of Fruit and Grading automatically using Machine Learning	Dr. Pradeep N, Sowmya M S	International Journal for Research in Applied Science & Engineering Technology (IJRASET) Vol-8, Issue-8	2020			

"AGRO CHAIN: Blockchain Powered Microfinancial Assistance for Farmers"	Dr. Roopa G M, DrPradeep N & Arun Kumar G H	"Blockchain-Based Security Solutions for Big Data and IoT Applications" Under CRC Press - Taylor & Francis Press Group.	2020			
A computing model for trend analysis in stock data stream classification,	Abdul Razak M S, Dr. Nirmala C R	Indonesian Journal of Electrical Engineering and Computer Science, Vol-19, No-3	2020			
Degree-Based Topological Indices on Asthma Drugs with QSPR Analysis during Covid-19-	Anil Kumar K N , Basavarajappa N S , Shanmukha M C , Shilpa K C	European Journal of Molecular & Clinical Medicine,Volume 07, Issue 10, 2020				
E&I						
Image Retrieval Using Image Segmentation Techniques	Prof. Vanitha R	International Journal of Research in Electronics and Computer Science Engineering (IJRECE), Vol 7, Issue 2	June 2019	--	BIET	4.3
A Novel Approach on Ceiling Fan Based System to Avoid Suicide by Hanging	Dr.Jayadevappa B M	International Journal of Engineering Research and Technology (IJERT), Vol 7,	May 2019	--	BIET	--

		Issue 10, NCRACES - 2019 Conference Proceedings				
IS						
A comprehensive survey on non-photorealistic rendering and benchmark developments for image abstraction and stylization.	Poornima, B.	Iran Journal Computation	2019	12	12	12
Cervical Cancer Cell Identification & Detection using Fuzzy C Mean and K Nearest Neighbor Techniques	Bhuvaneshwari K V Dr.Poornima B	International Journal of Innovative and Exploring (IJITEE)	August 2019	-	-	-
A Computational Modeling for Knowledge Binding of the Unstructured Web Data	Patil N S	International Journal of Innovative Technology and Exploring Engineering(IJITEE)	Dec 2019	-	-	-
Application of Neural Networks	Anitha G	A Journal of Composition Theory	September 2019	-	-	-

for Sentence Similarity						
Arachis Hypogaea Leaf Disease Detection Model using Image Processing	Chandan V Sheik Imran	Journal of Emerging Technologies and Innovative Research(JETIR)	June 2020	-	-	-
Touch Your Sound: A Review on Hearing Based Bone Conduction Technology	Sheik Imran Chandan V	International Journal of Creative research Thoughts(IJCRT)	March 2020	-	-	-
Identification of Student Characteristics using Dermatoglyphics for enhancement of their learning techniques	Sheik Imran Chandan V	International Research Journal of Engineering and Technology (IRJET)	Jan 2020	-	-	-
A GEO-Tagging Based Hybrid Mobile Attendance System	Sheik Imran Chandan V	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	2019	-	-	-
Hand Gesture	Sheik Imran	International Journal	August	-	-	-

Title	Author	Journal	Year			
Recognition System for Controlling Home Appliances		of Science and Research (IJSR)	2019			
Effective Crop Selection and Conservative Irrigation Using IoT	Sheik Imran	International Journal of Science and Research (IJSR)	December 2019	-	-	-
Identification of Plant leaf disease using Machine Learning Technique	Patil N S	International Journal of Advanced Research in Computer and Communication Engineering	2020	-	-	-
MechanicalEngg						
Effect of Injection timing on modified direct-injection diesel engine performance operated with dairy scum bio-diesel and Bio-CNG	Dr. G.Manavendra	Renewable Energy	2020	Yes	Science-direct.com	09
Bio-ethanol additive effect on direct injection diesel engine performanc	Dr. G.Manavendra	International Journal of Ambient Energy	2020	Yes	Science-direct.com	05

e, emission and combustion characteristics on experimental examination.						
A Review on Performance study of Finned tube Heat Exchanger	Dr. G.Manavendra	Journal of Physics	2020	Yes	Science-direct.com	04
Numerical studies on Combustion characterization of 4-stroke diesel engine	Dr. G.Manavendra	International Journal Of Vehicle structures (IJVSS)	2019	Yes	researchgate.net	01
Thermophysical properties of Pongama honge oil methyl ester and Rubber seed oil methyl ester for wide temperature range	Dr. G.Manavendra	International Journal Of Vehicle structures (IJVSS)	2019	Yes	researchgate.net	01
Experimental Investigation of mechanical properties of Al 6061 reinforced with Iron oxide	Dr. Sharan A S	Top science series	2020	No	-	-
Sisal fibre reinforced	Dr. Sharan A S	AIP conference	2020	No	-	-

epoxy composites: Effect of fibre length on strain energy density and toughness						
Chemistry						
Efficient Synthesis and Characterization of novel 2H-[1,4]oxaselenepino[5,6-b]quinolin-3(5H)-ones derivatives	J.K. Prasannakumar Belakatte Parameshwarappa Nandeshwarappa Sandeep Chandrashekharappa PrakashGowdra	Chemical Data Collections	Volume 28, August 2020, 100446	NA	Research Center	15
Mathematics						
"Topological Indices On Properties Of Line Graph Of Subdivision Of Plane Graphs"	K N Anil Kumar, N S Basavarajappa, M.C. Shanmukha, Niranjan K M	Advances in Mathematics	2020	---	BIET, JIT	---
"Degree-based topological indices on anticancer drugs with QSPR analysis"	N S Basavarajappa, M.C. Shanmukha, K.C. Shilpa, A. Usha	Heliyon	2020	05	BIET, JIT, Alliance University	03
MBA						
A study on consumer behavior towards online and offline shoping	Prof. Muhammed Muntaqheem	Iconic Research and Engineering Journals	2019	10.5373	VTU	7.5373

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
IS						
A comprehensive survey on non-photorealistic rendering and benchmark developments for image abstraction and stylization.	Poornima, B.,	Iran Journal Computation	2019	(Indexed by : DBLP)	12	12
Cervical Cancer Cell Identification & Detection using Fuzzy C Mean and K Nearest Neighbor Techniques	Bhuvaneshwari K V Dr.Poornima B	International Journal of Innovative and Exploring (IJITEE)	August 2019	-	-	-
A Computational Modeling for Knowledge Binding of the Unstructured Web Data	Patil N S	International Journal of Innovative Technology and Exploring Engineering(IJITEE)	Dec 2019	-	-	-
Application of Neural	Anitha G	A Journal of Composition	September 2019	-	-	-

Networks for Sentence Similarity		Theory				
Arachis Hypogaea Leaf Disease Detection Model using Image Processing	Chandan V Sheik Imran	Journal of Emerging Technologies and Innovative Research (JETIR)	June 2020	-	-	-
Touch Your Sound: A Review on Hearing Based Bone Conduction Technology	Sheik Imran Chandan V	International Journal of Creative research Thoughts (IJCRT)	March 2020	-	-	-
Identification of Student Characteristics using Dermatoglyphics for enhancement of their learning techniques	Sheik Imran Chandan V	International Research Journal of Engineering and Technology (IRJET)	Jan 2020	-	-	-
A GEO-Tagging Based Hybrid Mobile Attendance System	Sheik Imran Chandan V	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	2019	-	-	-
Hand Gesture Recognition System for Controlling Home Appliances	Sheik Imran	International Journal of Science and Research (IJSR)	August 2019	-	-	-
Effective Crop Selection and Conservative Irrigation Using IoT	Sheik Imran	International Journal of Science and Research (IJSR)	December 2019	-	-	-
Identificatio	Patil N S	International	2020	-	-	-

n of Plant leaf disease using Machine Learning Technique		Journal of Advanced Research in Computer and Communication Engineering				
Chemistry						
Efficient Synthesis and Characterization of novel 2H-[1,4]oxaselenepino[5,6-b]quinolin-3(5H)-ones derivatives	Belakatte Parameshwarappa Nandeshwarappa Sandeep Chandrashekharappa Prakash Gowdra J.K. Prasannakumar	Chemical Data Collections icable Chemistry	2019	1	15	Research Center
Physics						
Enhanced the thermal Properties of camphorsulfonic acid surfactant based PANI nanocomposite	Niranjan M Yesappa L Ashokkumar S P Devendrappa H Vrushabendrappa Y Ranagaswamy B E Basavarajappa K S Geetha V K	AIP Proceeding	2019	3	39	BIET
Enhanced optical and thermal properties of polyaniline/Copper oxide Nanocomposite in the presence of camphorusfonic acid surfactant	Niranjan M Yesappa L Ashokkumar S P Devendrappa H Manjunatha D Sathish S Vandana M Ashokkumar S P	AIP Proceeding	2019	3	39	BIET
Electron beam Irridiation effect on polymer blend electrolyte films: Thermal and conductivity studies	Yesappa L Ashokkumar SP, Vijeth H, Vandana M, Basappa M, Niranjana M, Devendrappa H	AIP Proceeding	2019	3	39	BIET
Structure morphology and optical properties of CuO nano particles immersed PANI/Li composite	Yesappa L Ashokkumar SP, Vijeth H, Veeresh S, Nagaraju Y, Ganesh H, Basappa M, Niranjana M, Devendrappa H	AIP Proceeding	2019	3	39	BIET

MBA						
A study on consumer behavior towards online and offline shoping	Prof. Muhammed Muntaqheem	Iconic Research and Engineering Journals	2019	0	7.5373	VTU

3.3.7 Faculty participation in Seminars/Conferences and Symposia during the year :				
No. of Faculty	International level	National level	State level	Local level
Chemical Engg.				
Attended Seminars/ Workshops	--	05	--	--
Resource Persons	--	--	--	01
Civil Engg.				
Attended Seminars/ Workshops	3	24	5	13
CS&E				
Attended Seminars/ Workshops		30	04	
Presented papers	04			
Resource Persons			01	01
E&C				
Presented papers	7	-	-	-
Resource Persons	-	-	-	3
E&E				
Attended Seminars/ Workshops	4	10	7	4
Presented papers	1	-----	-----	------
E&I				
Attended Seminars/ Workshops		18	16	13
Presented papers		01		
IS				
Attended Seminars/ Workshops	6	14	20	5
Presented papers	1	-	-	-
Resource Persons	-	-	-	2

MechanicalEngg				
Attended Seminars/ Workshops	00	15	00	00
Textiles				
Attended Seminars/ Workshops	01	--	--	--
Physics				
Attended Seminars/ Workshops	01	01	--Nil--	01
Presented papers	01	01	--Nil--	01
Mathematics				
Attended Seminars/ Workshops	1	1	---	---
Presented papers	1	1	---	---
MCA				
Attended Seminars/ Workshops	1	4	--	3
MBA				
Attended Seminars/ Workshops	-	3	-	4
Presented papers	1	12	-	-
Resource Persons	-	1	-	-

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
CS&E			
Industry-Institute interaction /extension activities	Infosys	6	500
	Salesforce		
	VMWare		
	IBM		
	GITHUB		
	UiPath		
Inter- Institute	Dayandasagar Colege	1	4

interactional activities			
Trail Head and Sales force	Salesforce	2	500
One week Lecture Series Program	CS Department	28	0
E&C			
PUPA 2019, An accelerated Entreprenrurial Experience	KLE Technological University, Hubballi.	-	2
Assistive Health Technology and Role of Engineers	Association with Composite Regional Centre (CRC)	2	111
Papyrus-A State Level Technical Paper Presentation	E&CE Department, BIET,Davangere	4	28 (18 Teams)
Effective Teaching,	IS&E Department, BIET,Davangere	4 (Participated)	-
Intellectual Property Rights	KSCST,IISc,Bengaluru	5 (Participated)	-
E&E	--	--	--
E&I			
Industry-Institute interaction /extension activities	Industrial visit to Grasim Industries Pvt. Ltd, Harihar on 11 May 2019	02	35
IS			
COVID 19 General Awareness Online Quiz	Insync BIET	4	800
Talk on "IoT and Its Continuous Evolution"	Insync BIET	2	200
Pi-Day Celebration	Insync Forum/Digital Identity Pvt. Ltd.	8	200
Workshop on IoT	Rove Labs, Bengaluru	2	98
Bridge Course on "Object Oriented Concepts (C++)	IS&E Dept., BIET	4	120
Tech Talk on Artificial Intelligence	Insync BIET/UBDTCE	6	110
Cyber Security Hands on Workshop	K-Tech CoE for Cyber Security	4	80

Workshop on Android App Development	Rove Labs, Bengaluru	6	55
Internship on IoT and Machine Learning	Rove Labs, Bengaluru	4	64
MechanicalEngg			
Blood donation camp in association with YRC	Red cross and NSS	05	50
Textiles			
Blood donation camp in association with YRCW	Red cross and NSS	05	150
Chemistry			
Student Induction Program	Physics, Chemistry and Mathematics Departments	23 teachers from Physics, Chemistry and Mathematics	640 Students of First Year BE
Physics			
SIP-2019	BIET & SCIENCE FORUM	32	600
MBA			
Entrepreneurship Development Programme	A Webinar Series – "Entrepreneur's Mindset on 17/07/2020 at Bapuji B - Schools	1	70

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

Name of the Activity	Award/recognition	Awarding bodies	No. of Students benefited
E&I			
"Impulse-2019" – A State Level Technical Paper Presentation	II Place	Department of E&E, BIET	02
IS			
43rd Series of Student Project Programme: 2019-20	1st place	KSCST	4
Textiles			
State level Student Project Exhibition	Best Project Award	Karnataka State Council for Science and Technology , Govt. of Karnataka	04

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
Civil Engg.				
SwachhBharath Village	Civil Forum	Arpitha DJ AICTE activity point	20	135
IS				
NCC	BIET, Davangere	NCC training camp	1	8
SwachhBharath Summer Internship programme	NSS, BIET	NSS Camp	1	6
Swach Bharat – School campus	Insync-IS Forum	AICTE activity points programme	24	120
Health camp – Dental care	Insync-IS Forum	AICTE activity points programme	24	120
Cyber Security	Insync-IS Forum in collaboration with K-Tech CoE for Cyber Security	Public awareness program about Cyber Security	8	40
Blood	Youth Red Cross	Blood Donation Camp	4	60

Donation Camp	Wing and S. S. Medical Institute of Research Centre, Davangere			
RashtriyaSadbhavanaDiwas,	YRCW, Department of Sports – BIET	Oath Taking Programme	2	40
MechanicalEngg				
Swachh Bharath Summer Internship programme (SBSI) - 2018	Department of Mechanical Engg, BIET,Davanagere	AICTE activity program	02	20
Textiles				
Blood Donation Camp	Red cross and NSS	Blood Donation Camp	05	150
Chemistry				
Swatch Bharath	NSS Unit of BIET	Campus cleaning	20	100
Physics				
Rashtriya Sadbhavana Diwas,	YRCW, Department of Sports - BIET,	Oath Taking Programme	06	300
Blood Donation Camp	Youth Red Cross Wing and S. S. Medical Institute of Research Centre, Davangere	Blood Donation Camp	06	350
Village Camp	NSS	Village camp	03	60

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
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3.5.2 Linkages with institutions/industries for internship, on-the-job training, project work, sharing of research facilities etc. during the year				
Civil Engg.				
Academic Project	Internship	FPACE Davangere	15-7-2019 to 14-08-2019	137
E&C				
Industry	MOU	LabVIEW VI Solutions	08-07-2019 to 03-08-2019	61

		Whizchip Technologies, Bengaluru	July/August 2019	6
IS				
Research Project	Predictive Model for Paddy Disease and Deficiency Detection using Machine Learning Techniques	Karnataka State National Disaster and Monitoring Center	2018 - 2020	Faculty
Textiles				
Academic Interface Program	Sewing machine operators training course	Dept. of Handloom & Textiles Government of Karnataka.	45 days	50
Industry	Internship	Garment Industries Bangalore,	1 Month	20
Academic Interface Program	Salesforce Academic Allience	Dheya events and promotions	27th November to 2nd December, 2019	70 numbers. 3rd sem students
Industry	Internship	70 + Companies	5th July to 29th July 2019	119 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
Biotechnolgy			
Maganahalli Rathna Enterprises	4.12.2019	Development of ecofriendly and cost effective Sanitary Napkins	Teachers:02 Students:04
CS&E			
Tequed Labs	15-Feb-2021	Technical collaboration	120
Skyscendpay	30-Mar-2021	Technical collaboration	120
E&C			

Altilogic Technologies Pvt. Ltd., Bangalore	21-10-2020	Digital and analog electronics in hands on approach	6
E&E			
Electrica Power Solutions, Davanagere	26.06.2020	To impart specialized training for students of E & E department in areas such as Design and fabrication of control panel, circuit breakers, relays, multi-functioning meters and power factor correction with regard to recent trends and practical applications.	--
Suprith Electrical & Engineering Works, Hubballi	26.06.2020	1. To give training capsule to a limited number of students / semester on industry-based projects in the above mentioned fields. 2. To offer special lectures by experts on topics pertaining to the above fields on mutually convenient dates on cost free basis.	---
E&I			
Prolific Systems and Technologies Pvt Ltd, Bengaluru	25-09-2019	• To impart specialized training in Industrial Automation with regard to recent trends and practical application. • Technological up-gradation, innovation and competitiveness of an industry	70
IS			
ROVE Labs Pvt. Ltd., Bengaluru	16/07/2019	Internship and Training Program	340
Srichid Technologies Pvt. Ltd.	11/03/2020	Training Program	340
MechanicalEngg			
OYO Hotels and Homes pvt.Ltd	18-01-2020	Outline the services for the Institutional study, Cultural and Leisure tour	100

MBA			
Pace academy coimbatore	11/11/2019	SKILL DEVELOPMENT PROGRAMME- APTITUDE, SOFT SKILLS etc.	75
Dhyeya events & promotions – Hubli	26/11/2019	SKILL DEVELOPMENT PROGRAMME- APTITUDE, SOFT SKILLS etc.	25
Accutech agro pvt.ltd. Davangere	02/01/2019	Training, Internship and Placement of students	20
Psk pharma pvt. Ltd, Harihar	03/01/2019	Training, Internship and Placement of students	25
Synthite industries pvt.ltd. Harihar	05/01/2019	Training, Internship and Placement of students	30

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 3,87,50,000=00	Rs.1,89,92,696=00
Rs. 387.5 Lakhs	Rs.190Laks

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	Nil
Seminar Halls	08	Nil
Classrooms with LCD facilities	41	Nil
Classrooms with Wi-Fi/ LAN	LAN: 06	Nil
Seminar halls with ICT facilities	05	Nil
Video Centre	--	Nil
No. of important	04	

equipments purchased (≥ 1-0 lakh) during the current year.		
Value of the equipment purchased during the year (Rs. in Lakhs)	Rs. 44, 04, 319=00	Rs.2,02,58,916=00
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	6.2 web version	2005

4.2.2 Library Services

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	60433	21384307.85	1624	715298.35	62057	22099606.20
Reference Books	25784	6079598.72	188	47832.40	25972	6127431.12
e-Books	24329				24329	
Journals			137	333586.00	137	333586.00
e-Journals			1700	2393250.00	1700	2393250.00
Digital Database CD & Video	1613				1613	
Library automation		1294303.00				1294303.00
Others (specify)						

4.2.3 E-content developed by teachers such as: e-PG-Pathshala, CEC (under e-PG-Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e - content
--	--	--	--

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	100	

Added	00	00	YES	0	0	0	0	100	Broad Band
Total	1209	32	YES	2	2	38	16	200	

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

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
3,72,38,000=00	1,71,05,145=00	2,09,00,000=000	12,66,220=00
Rs.372.38 Lakhs	Rs.171.05Lakhs	Rs.209Lakhs	Rs.12.66Lakhs

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			
			Total: 4,76,72,630=00
a) National			
	E-PASS	1522	3,26,65,994=00
	DTE Bangalore	55	--
	SSP(SC/ST)	318	1,15,47,908=00
	TRUST(Jindal)	4	56,700=00
	Other State	4	3,47,130=00
		Total	4,46,17,732=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
RARO	29 July 19 to 31 July 19	57	RARO Technologies
RARO	27 Sept.-03 Oct. 2019	330	RARO Technologies
National Science Day-2019	10-08-2019	400	Science Forum
National Science Day-2020	28-02-2020	400	Science Forum
ISKON-2019	15-10-2019	300	ISKON

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	Number of benefited students by Career Counselling activities	Number of students who have passed in the competitive	Number of students placed

		examination		exam	
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5.1.4 Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year		
Total grievances received	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 Visited	No. of Students Participated	No. of Students Placed	Name of Organizations Visited	No. of Students Participated	No. of Students Placed
TCS Digital	1	1	TCS Ninja-Enginex	Off Campus	3
Employability	55	0	Infrared _TCS	Off Campus	1
Allegion	14	5	Robosoft	Off Campus	3
TCS Ninja	52	25	S L K	Off Campus	8
Qwikcilver	11	6	Amzon	Off Campus	2
iNUBE	40	11	Bosch	Off Campus	0
Global Edge	5	2	KodNest	Off Campus	5
FAURECIA	3	0	SpurTree	Off Campus	3
Xoriant	7	2	Pentagon Space	Off Campus	3
Eleation	95	9	Applied Coginition Systems	Off Campus	1
T & V	25	10	Murguppa Construction	Off Campus	2
Cadence	4	0	Byju's	Off Campus	7
Tayana	2	0	insemi technology	Off Campus	1
Infosys	44	36	iTriangle	Off Campus	1
Shahi	9	4	TechMahindra	Off Campus	6
Accenture	9	5	Bosch	Off Campus	2
MindTree	7	0	SLK	Off Campus	9
Gigsky	4	0			
Cognizent	6	3			
Omega	14	9			
Cleo	55	5			
Sasken	7	4			
Manhattan	41	0			
Qspider	18	10			
DXC Technology	26	16			
Gokul Das	Not announced Due to COVID-19	0			

	Not announced Due to COVID-19	0			
Sonata	Not announced Due to COVID-19	0			
Shahi	Not announced Due to COVID-19	0			
Smart Brain	10	4			
Smart Brain	80	54			
Aissel	12	8			

5.2.2 Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of Programme admitted to
Chemical Engg.					
2018-19	2	UG Chemical Engineering	Chemical Engineering	1. MSRIT, Bangalore 2. University College, Dublin,, Germany	1. MBA 2. MS, Chemical Engineering
Civil Engg.					
2019-20	29	BE	CIVIL	1. SIT, Tumkur 2. UVCE, Bangalore 3. BIET, Davangere 4. DYSCE, Bangalore 5. JSSCE, Mysore 6. BVVSBEC, Bagalkot 7. UBDTCE, Davangere 8. RVCE, Bangalore 9. MIT, Manipal 10. BMSCE, Bangalore	ME/M.Tech/MBA
E&C					
2019-20	4	2019-20	E&C	University BDT College of Engineering	M.Tech M.Tech

	2			PESIT	
	E&E				
2018-19	05	BIET, Davangere	Electrical and Electronics	Manipal Academy	M.Tech (CS) M.Tech (PE&D)
				UBDTCE, Davanagere	M.Tech (PSE)
				SIT, Tumkur	M.Tech (PE)
				University of Bridgeport, USA	M.S (EE)
E&I					
2018-19	01	Electronics &Instrumentation Engineering	Electronics &Instrumentation Engineering	Sri Siddhartha Institute of Technology	M.Tech VLSI Design
IS					
2019-20	4	B.E.	Information Science and Engineering	Manipal University, UBDTCE Davangere	ME M.Tech
2018-19	6	B.E.	Information Science and Engineering	UBDTCE Davangere,Bapuji B schools (B.I.E.T M.B.A)	M.Tech in CS&E. and MBA
MechanicalEngg					
2018-19	04	Mechanical Engg	Mechanical Engg	SRH Berlin university of Applied Sciences, Berlin, Germany	M.Sc. (Supply chain management)
				MSRIT, Bangalore	MBA
				RVCE, Bangalore	M.Tech in Machine Design
				KLETU,Hubballi	M.Tech in Design Engg
Textiles					
20-21	04	VTU	Textile Technology	Bapuji Institute of Management	MBA/NIFT

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
Biotechnolgy		
GATE	1	BT19S41211038
Civil Engg.		
GATE	5	CE20S81233130 CE20S71234017

			CE20S71405745
			CE21S11223046
			CE20S81217141
Civil Services		2	6077501
			3128342
CS&E			
IELTS		02	003243, 260587
GATE		02	CS20S61233154, CS20S61233051
GRE		01	6121394
TOFEL		01	9652508190758896
E&C			
GATE		2	EC20S41233016,EC19S51211050
CAT		1	9144082
GRE		1	6253606
TOFEL		1	758841191197532
E&E			
GATE	01		EE20S51239284
IS			
ME		04	201046004,201046031
			201046040,201046011
Textiles			
Any Other NIFT		01	

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

Sl No.	Activity	Level	Participants
01	Chess (M&W) SJMIT Chitradurga	VTU Rest of Bangalore zone 18th & 19th August 2019	05Girls ,05Boys
02	Institute **Basket Ball (Men)** teams	VTU Central Karnataka Zone inter collegiate tournament held at **KIT, Tiptur** on 24-09-2019 to 25-09-2019	12 Boys
03	Institute **Badminton (Men & Women)**	VTU Central Karnataka Zone inter collegiate tournament held at **SJMIT, Chitradurga** on 26 – 08 – 2019 & 27 – 08 – 2019	6 Boys,5Girls
04	Institute **Basket Ball (Men)** teams	the VTU Inter Zone collegiate tournament held at **SIT, Tumkur** on 26-09-2019 to 28-09-2019	12Boys
05	Institute **Cricket (Women)** player	V.T.U. Inter Collegiate Cricket selection competition held at **SJCIT, Chickballapura** on 17-10-	01 Girl

06	Institute Athletic **(Men and Women)**	V.T.U. Inter Collegiate tournament held at **GNDEC, Bidar** on 22-10-2019 to 25-10-2019	01Girl, 05 Boys
07	Institute **Throw Ball (Women)**	the VTU Central Karnataka Zone inter collegiate tournament held at **PESITM, Shivamogga** on 18-11-2019.	12Girls

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)

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5.3.2 Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)
BIET Students' academic council for the year 2019-20 was formed on 5th October 2019. President of the council was Principal. Dr. Kalleshappa C.M.Associate Prof Chemical Engg, Dr. S.N. Ramesh, Associate Prof.Textile Engineering, Dr. Veena Kumara Adi, Associate ProfCivil Engg. Dr. Vinutha H.P Associate Prof. CS&E. nominated as conveners of student Academic Council. ETHNIC DAY-2019 was celebrated on 17th Nov.2019.   Students from BIET Davanagere Participated in the 20th VTU Youth Festival " INSIGNIA" which was held at Shri Dharmasthala Manjunatheshwara College of Engg. Dharrwad, from 6th to 9th November 2019. Students were accompanied by Conveners.

5.4.1 Whether the institution has registered Alumni Association? Yes/No, if yes give details (maximum 500 words): YES
The Alumni association was established in the year 1989. In the year 2020 once again the alumni association is re registered DRDV/SUR/266/2020-2021 dated 23/11/2020. The association comprises of Principal as President, Smt. Ashalatha as Vice president, Sri M.C.Patel and Sri G.B.Suresh Kumar as Secretary and Joint secretary. The treasurer of the association is Dr. K.C.Devendrappa and Sri. Kshitij Basavara, Dr. S. Suresh, Dr. G. Manavendra, Dr. C. R. Nirmala and Sri Sheik Imran as directors. The governing body meeting will be conducted regularly once in six months. The association has a well-furnished Alumni guest house inside the Institute campus.

5.4.2 No. of enrolled Alumni:
465

Biotechnolgy	UG: 26 PG: 00
Chemical Engg.	UG: 171 PG: NIL
Civil Engg.	UG: 30
IS	UG: 20
MechanicalEngg	UG: 40
Textiles	UG: 44
MCA	19
MBA	115

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

5.4.4 Meetings/activities organized by Alumni Association :	
Biotechnolgy	Online meeting was conducted on 20.06.2020
Chemical Engg.	1
Civil Engg.	1
Textiles	1
MCA	1
MBA	3

Biotechnolgy: 01, Chemical Engg.: 01, Civil Engg.:01, Textiles:01, MCA:01,MBA:03, All online meetings

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, Development and 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
IS				
2019	Gowreesha H.B.	BIET, Davangere	Faculty Development Program "Paradigms in Intelligent Computing" Dept. of CS & E ,VTU, Balagavi	1200
Textiles				
2020	Dr S N Ramesh	International	Osmania University	4600
Physics				
2019	Dr. Niranjana M	International Conference on Physics of Materials and Nanotechnology (ICPN-2019)	BIET	4,500
Mathematics				
2019	Anil Kumar K N	International conference on innovations and challenges in science and Technology(ICICST)	---	Rs.1000
	MBA			
2019	Prof. Vijay K S	"Big data Analytics with HADOOP"	Bapuji B-Schools	Rs. 2,500
2019	Prof. Inchara R Murthy	"Business Analytics – A Management Tool"	Bapuji B-Schools	Rs. 700
2019	Dr. Sujith Kumar S H	SEBI Conference	SEBI	Rs. 2,500

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	Title of the administrative training programme	Dates (from-to)	No. of participants (Teaching staff)	No. of participants (Non-teaching

	organised for teaching staff	organised for non-teaching staff			staff)
E&C					
2019	Effective Teaching, IS &E Dept,	-	15-07-2019 to 19-07-2019	4	-
2020	Data Science and Big Data Analytics, ICT Academy	-	21-01-2020 to 25-02-2020	3	-
E&I					
2019-2020	Hands on Workshop "Embedded IoT & its Applications"	--	27-2-2020 to 29-2-2020	04	01
	"Hands on Workshop PLCs and SCADA"	--	23-10-2019 to 25-10-2019	06	01
IS					
2019	"Effective Teaching"	"Effective Teaching"	15/07/2019 to 19/07/2019	56	08
2019	Python	--	22/06/ 2019	36	--
2019	Linux	--	23/ 08/2019	28	--
2019	"eSim, a First Course in the IoT Series".	--	12 /09/2019	26	--
MBA					
2019	17th Faculty Development Programme – "Case study teaching and writing".	-	15/03/2019 to 16/03/2019	25	-
2019	18th Faculty Development Programme – "Structural Equation Modeling".	-	30/08/2019 to 31/08/2019	25	-
2020	19th Faculty Development Programme – "Educational Technology and People Alignment	-	07/02/2020 to 08/02/2020	21	-

	for Enhanced Learning".				
2020	20th Virtual Faculty Development Programme – "How to write Technical paper"	-	30/11/2020	52	-

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)
Biotechnolgy		
One week National Level Online Faculty Development Programme on "Advanced Materials, Machining and Characterization,"	2	During 06th to 10th, July 2020.
One week Short term Training Programme through ICT mode on "Effective Teaching" organized by IS. Dept, BIET in association with National Institute of Technical Teachers' Training and Research, Kolkata	2	During 15th to 19th, July 2020.
One Week Webinar on Design Thinking conducted by RV College of Engineering®, Bengaluru, Karnataka	01	27th July 2020 to 03rd August 2020.
One Week National Webinar Series (NWS)-2020 on "Immunity and infection: Biochemical approaches to therapies"	01	During 15th -21st June 2020
Webinar on An effective research paper writing skills	01	Apr 13-16, 2020
Webinar on Utilization of Research publication through KNIMBUS digital library	01	25th June 2020
Civil Engg.		
Faculty Development Program	1	16-02-2020 (1 Day)
Faculty Development Program	7	29-05-2020 to 31-05-2020 (3 days)
Faculty Development Program	3	28-01-2020 to 01-02-2020 (5 days)
Faculty Development Program	1	22-05-2020 (1 day)

Faculty Development Program	4	27-01-2020 to 31-01-3030 (5 days)
Faculty Development Program	1	08-07-2019 to 14-07-2019 (1 week)
Faculty Development Program	1	03-02-2020 to 07-02-2020 (5 days)
Faculty Development Program	1	08-02-2020 to 09-02-2020 (2 days)
E&C		
Faculty Development Program	27	July 2019 to June 2020
Short Term Course	1	04-06-2020 to 08-06-2020
	2	06-01-2020 to 10-01-2020
Refresher or Orientation Course	2	August 2019 to April 2020
Orientation Programme,	18	17-08-2019
Student Induction Program - 1	6	01-08-2019 to 10-08-2019
Student Induction Program - 2	6	10-02-2020 to 15-02-2020
E&E		
Artificial Intelligence	1	22nd to 26th May 2020 (5 Days)
Data Science and Big Data Analytics	1	21th to 25th January 2020 (5 Days)
E&I		
ICT Mode on "Effective Teaching" organized by Department of Information Science Engineering, BIET	04	15-19 July 2019
One Day Workshop on eSim, a First Course in IOT series for Teachers held at BIET	02	21 September 19.
Webinar on "Improving Research Planning Skills at Technical Institute!" by Elsevier & VTU Consortium	04	28 April 2020
IEEE WIE Webinar Series	02	8-11 May 2020
MHRD Webinar on "Turn the challenges to	04	28 May 2020

Opportunities: COVID-19 Pandemics and measures to combat in Higher Education of India" organized by National Assessment and Accreditation Council (NAAC), Bangalore."		
Attended FDP on "Recent trends in Computer Architecture, VLSI and Embedded Systems (RCAVES-2020"organized by Dept. of E&CE, GRIET, Hyderabad.	04	8-13 June 2020
4 Days Live Webinar on "Research Methodology and Data Analysis", organized by KSTA, Bengaluru in association with VTU, Belagavi.	01	17- 20 June 2020
Online Faculty Development Programme on "Recent Advances in Automation and Networking", organized by Basaveshwar Engineering College, Bagalkot	01	18 - 20 June 2020
One week online Certification Course on Digital Teaching Techniques organized by ICT Academy	01	29 June to 4 July 2020
IS		
Effective Teaching	66	15th to 19th July 2019
Paradigms in intelligent computing	01	29thJuly to 2nd Aug 2019
Linux	24	23rd Aug 2019
Introduction to IoT& its prototype	01	25th to 27th Sep 2019
Big image data processing using machine learning techniques	01	4th to 9th Nov 2019
MechanicalEngg		
Textiles		
STTP KCT Coimbatore	01	27-01-20 to 01-02-20
Chemistry		
Certificate Course on Digital Teaching Techniques" from ICT Academy!	05	29-0-2020 to 04-07-2020
The Role of Advanced Materials & Nanotechnology in Present Scenario" The Role of Advanced Materials & Nanotechnology in Present Scenario"	04	22-06-2020 to 26-06-2020
MCA		
Faculty Development Program (FDP) on" Online Teaching & Learning Tools	02	22-10-2020 to 24-10-2020
Smart Technologies in Computing, Electrical and Electronics	01	09-10-2020 TO 10-2-10-2020
Virtual LAB SESSION – ONLINE	05	22-10-2020
"NIRF"	02	5-11-2020
MBA		
17th Faculty Development Programme – "Case study teaching and writing".	15	15/03/2019 to 16/03/2019

18th Faculty Development Programme – "Structural Equation Modeling".	15	30/08/2019 to 31/08/2019
19th Faculty Development Programme – "Educational Technology and People Alignment for Enhanced Learning"	21	07/02/2020 to 08/02/2020
20th Faculty Development Programme – "How to write Technical Paper"	52	30/11/2020
MeitY, Govt. of India sponsored one week FDP ON "Big Data Analytics with HADOOP organised by E & ICT Academy, National Institute of Technology, Warangal at S.D.M Institute of Technology, Ujire, (D.K), Karnataka	1	7/01/2019 to 12/01/2019
Faculty Development Programme on "BUSINESS ANALYTICS – A MANAGEMENT TOOL" organised by Department of Studies in Management, GM Institute of Technology, Davangere	1	7/02/2019 to 8/01/2019
Workshop on "HR Analytics and Marketing Research & Analytics" organized by VTU – Board of studies in Business Administration at BNM Institute of Technology, Bangalore.	1	18/10/2019

6.3.4 Faculty and Staff recruitment (no. for permanent/fulltime recruitment):			
Teaching		Non-teaching	
Permanent	Fulltime	Permanent	Fulltime/temporary
UG: 201 PG: 08		108	22

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	--

6.4.3 Total corpus fund generated Rs. 31,82,14,296=00

318214296

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
• D-Space powered by Koha (to enrich the digital library)
• Introduce Art Club. Celebration, Mentoring etc

6.5.5

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

6.5.6 Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting activity	Duration (from------to------)	Number of participants
2019	Academic Meeting to discuss IQAC activities	25-10-2019	1 hr. 10.30 to 11.30AM	22
2019	Academic Audit Visits to various Departments	13-11-2019 to 16-10-2019	3 hrs for each dept. from 10.30 am to 5.00 pm)	IQAC Team members –4 and respective HOD and Faculty of the department

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	
		Female	Male
Law and implementation with a reference to Judiciary issues of women	06.08.2019	175	225

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	2
Provision for lift	Yes	2
Ramp/ Rails	Yes	2
Braille Software/facilities	No	--
Rest Rooms	Yes	2
Scribes for examination	Yes	2
Special skill development for differently abled students	No	--
Any other similar facility	Special/extra help in library and office	2

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
2019	1	1	27-08-2019	Blood donation camp	Blood donation for needy people	550
2019	1	1	02 – 10 - 2019	Swachh Bharath Summer Internship programme	Health Awareness, Rallies, Wall Painting, Door to	152

				(SBSI)	Door Swachhatha Programme	

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)
--	--	--

7.1.6 Activities conducted for promotion of universal Values and Ethics		
Activity	Duration	Number of participants
"Cycle Jatha" was organized on the eve of **"World Environment Day"**	07-06-2019	50
Oath Taking Programme, was organized on the eve of **"Rashtriya Sadbhavana Diwas,** in commemoration with **Birth day celebrations** of **Late Sri. Rajiv Gandhi, Ex. Prime Minister of India.**	20-08-2019	400
A **Blood Donation Camp** was organized on in association with **S. S. Medical Institute of Research Centre, Davangere.** NSS volunteers and students and teachers were actively participated and donated the blood for the noble cause, **185 units of blood were collected on this occasion.**	27-08-2019	550
"Plastic Awareness Programme" organized through "**Power Point Presentation** – on the theme **"Plastic Free India"**, delivered by 1st year B.E. Students of college	22-09-2019 to 30-09-2019	800
"**Cleaning of the Campus"** was conducted on the eve of **Gandhi Jayanthi** and **Lal Bahddur Shastri Jayanthi** and **Swchatta Andolan,** a programme on the theme **"Plastic Free India".**	02 – 10 - 2019	152
"Electrol Verification Programme" for Faculty members and Students to make aware of **Change of Name, Address Photo and also new enrolment for getting new Voter ID** by giving presentation and also make them use **Mobile App - Voter Helpline,** in association with **Election commission of India, Davangere.**	08-10-2019 To 15-10-2019	320
"**Project Exhibition Programme - Science Expo 2K19",** for the First year B.E. Students was conducted on the eve of **"World Students' Day,** in commemoration with **Birth day celebrations** of **Dr. A.P.J. Abdul Kalam, Ex. President of India.**	14-11-2019	600
"70th year of Indian Constitution Day", was celebrated and **Prof. Shanthika,** Professor , R.L. Law College address the students	26 -11-2019,	200
"Deepotsava" was organized on the eve of **"64th Kannada Rajyothsava"** by drawing the India Map, Karnataka Map and symbol NSS with colors and	03-12-2019	200

lighting the candles in the evening, inaugurated by the Principal and Director of the college		
NSS volunteers conducted and organized **National Voter's Day**, in association with Department of Computer Science and Engineering, BIET Davangere. **Dr, M.C Nataraja**, Principal, read out the oath and **Prof. Y. Vrushabhendrappa**, Director, **Dr. Nirmala C.R**, Professor of CS and E, were present on the occasion. On this occasion conducted the **Essay, Debate and Oral competitions** for the students	21 01-2020	200
NSS volunteers conducted **National Science Day** was celebrated in association with the **Science Forum – BIET. Dr. K Siddappa, Ex. Vice-Chancellor, Bengaluru University, Bengalaru,** was present and inspired the students to do work in the field of Science and Technology. Prizes were distributed on the occasion for the winners of competitions.	28-02-2020	150
NSS volunteers organized Programme **"Webinar and Online Quiz competitions"** on the eve of **"World Environment Day"**. Plants were planted on that day at all building block of college campus by HOD's, Principal and Director of the college. **Sri. Dr. H. B. Aravinda,** created awareness among the faculty by delivering lecture on **"Biodiversity"**.	05-06-2020	621

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

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 all the departments in different phases.

2. Institute has planned to apply for NIRF ranking.

3. 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 NBA requirements and CBCS syllabus prescribed by VTU.

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

5. It is proposed to improve ICT facilities in the Institute by establishing ICT enabled classrooms and seminar halls in all the departments.

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

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

8. It is planned to improve alumni and parents meet in the Institute.

Name   Dr. Anila Kumar C.P.

Signature of the Coordinator, IQAC
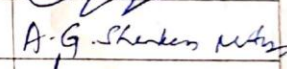
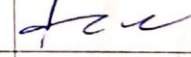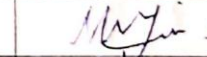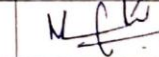Name: Dr. H.B. Aravind

Signature of the Chairperson, IQAC
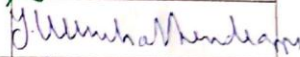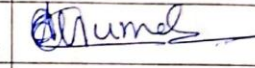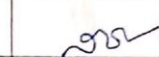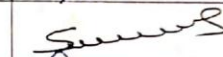
IQAC meeting held on 08–02-2021

Agenda: 1. Review of IQAC activities for the year 2019-20.

      2. Approval of AQAR for the year 2019-20.
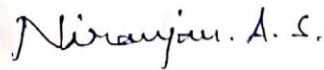
Minutes of the meeting:

A meeting of the IQAC was held on 08-02-2021 at the board room of BIET. The members reviewed the activities of IQAC for the year 2019-20 and the quality initiatives to be undertaken for the academic year 2020-21. The committee approved the AQAR of 2019-20 to be submitted to NAAC.

IQAC members present:

Sl. No.	Name	Designation	Signature
1	Dr. H.B. Aravind Principal	Chairman	
2	Prof. Y. Vrushabhendrappa Director	Member	
3	Dr. Anila Kumar C.P. Professor	IQAC Coordinator	
4	Dr. K. Sadashivappa Dean, Academic	Member	
5	Dr S. Suresh Dean, Student Affairs	Member	
6	Dr. G.P. Desai Dean, Public Relation	Member	
7	Dr. A.G. Shankara Murthy Dean, R&D	Member	
8	Dr. Kumarappa S. Dean, Examination	Member	
9	Dr. M.S. Nagaraja Dean, Training and Placement	Member	
10	Dr. Nirmala C.R. Dean, IT Cell	Member	

IQAC Coordinator

Principal

Niranjan. A. S.

TREASURER
Bapuji Educational Association
Davangere.

For Communication with NAAC

The Director
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