



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution	BRINDAVAN COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr R Prabhakara
Designation	Principal
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	08028478388
Mobile no.	9606487204
Registered Email	engineering@brindavancollege.com
Alternate Email	hodece@brindavancollege.com
Address	Dwarakanagar, Bagalur Main Road, Yelahanka
City/Town	Bangalore
State/UT	Karnataka
Pincode	560063

2. Institutional Status	
Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	Self financed
Name of the IQAC co-ordinator/Director	VENKATESHA G
Phone no/Alternate Phone no.	08028478388
Mobile no.	9902343739
Registered Email	engineering@brindavancollege.com
Alternate Email	hodece@brindavancollege.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	_https://brindavancollegeofengineering.com
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://brindavancollegeofengineering.com

5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.02	2017	27-Nov-2017	26-Nov-2022

6. Date of Establishment of IQAC	24-Oct-2016
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7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Academic Audit	03-Aug-2019	15

	1	
IQAC Meeting	12-Aug-2019 1	10
IQAC meeting	20-Feb-2020 1	10
IQAC meeting	29-May-2020 1	10
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8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/ Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Mechanical	FDP	institute of Engineers	2019 2	30000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

3

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

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11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

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

a) Adaptation of Outcome Based Education - Feb 2020 b) online teaching of theory subjects were initiated Feb 2020 c) full pledge Digital platform was created in the institution for effective teaching learning process during the COVID19 Pandemic period - May 2020 d) Incorporation of Universal Human Values among the students to face Covid 19 pandemic disaster situation - May 2020 e). ISR activity - Planted around 600 saplings of diversified plants within the campus on world Environment day with a slogan " TO PROTECT OUR MOTHER EARTH" (THEME - Celebrate Bio Diversity) -June 2020 F). Green audit was effectively implemented in june 2020 g). BGI Covid 19 SOP 202021 was developed inline with MHRD/UGC/AICTE/GOK/VTU/CoA/CBU/DTE/BBMP. Aug2020 h). formation of Admission coordinators in order to attract meritorious students with career counseling I). Reinforcing the placement activities through the coordinators from the

departments for enhancing placement of the students J) Incubation center " Ghost Current" - Details to be collected from Nayeem sir k). interdisciplinary research forums to enhance interdisciplinary research activities to establish center of excellence and incubation centers in all the departments. l) extension of digital platforms to teach lab subjects and online evolution of the students. m). Mock CET, Mock PG CET and Mock KMAT were conducted to enhance the performance of the students in actual competitive examinations. n). Skill development programs such as online teaching for faculties , personality development for the instructors and job description for the non teaching faculty were also under taken Zeyad sir o). AICTE internship programs have been initiated p).adapted Sadhana school to conduct AICTE/VTU activities to enable the students to earn the points to obtain their degrees Dr. ManjunathECE q). conference, Webinars and handson workshops through online platform to enhance comprehensive research knowledge for effective teaching elective subjects. s). development of IPR in the form of one publication by all the faculty per semester was initiated. t). included more than 400 ebooks in the library to facilitate the students to develop contemporary course material for better performance in the examination. u). Under the asset management system initiatives were taken through the stock verification of all the assets of our institutions by deploying internal auditors of the departments. v). Covid free hostel facilities were created for both boys and girls adopting the BGI COVID19 SOP w). students internship activities were initiated

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

Plan of Action	Achivements/Outcomes
Included more than 400 e-books	Students are able to access e books in the Library and exposed to e- Learning
Incubation center has been initiated	Interdisciplinary research forums to enhance interdisciplinary research activities have been started and good number of research papers have been published
Incorporation of Universal Human Values	Students are able to face COVID- Pandemic situation
Green Initiative	Planted around 600 samples of diversified plants within the campus on world Environment day with a slogan " TO PROTECT OUR MOTHER EARTH" (THEME - Celebrate Bio Diversity)
Full pledge Digital platform was created	Effective teaching learning process was implemented during the COVID19 Pandemic period
Standard Operating Procedure	All the teaching, non teaching and supporting staff were enabled to take care against the COVID-19 pandemic situation in the campus. All the students were assured of their safety in the campus

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14. Whether AQAR was placed before statutory body ?	No
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	23-Jan-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>Management Information System has been implemented Partially in the institute.</p> <p>1. Optra India MOU has been signed with Optra India for student attendance administrative systems. Daily attendance will be updated online. Absentees information will be intimated to the respective parents through SMS. Reports will be generated.</p> <p>2. Easy Lib: Library automation is in practice. With the help of Easy Lib, categorization of books , Issue and borrow of books with the help barcode detection is made easy. HR Department has got its own management information system to handle recruitment and performance analysis of the staff members. Accounts Department has its own information system to manage the whole accounts of the college. With the help of IT departments established in the campus, it is able to manage college web portal and other management information system.</p>

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

- Vision To build in each student a strong character and will power to excel globally
- Mission Disseminating of quality education to the students to develop their personality, to improve quality of life and to make them worthy citizens
- Preamble
- Being the affiliated institute under Visvesvaraya

Technological University, the institute implements the curriculum prescribed by VTU. For effective implementation of teaching and learning, the curriculum provided by VTU. The following systematic process is developed and deployed. • As per the AICTE norms we are conducting the Student Induction program for the first year students, which improve the self-confidence, communication skills; familiarize the outcome based education in technical education. At the outset, the Principal of the college conducts meetings with the various department heads to develop strategies for effective implementation of the curriculum. • AICTE activity points program has been implemented and is mandatory for award of BE degree. • Teachers are encouraged to impart the curriculum through innovative teaching methods such as presentations, assignments, discussions, workshops, seminars and industrial visits besides the regular/traditional chalk and talk methods. • We follow the academic calendar provided by the VTU and all departments follow the same, at the beginning of the semester we prepare Objective Driven Teaching Plan. Faculty members maintain course booklet throughout semester. • The College encourages its faculty members to participate in Orientation/Refresher Courses/ Skill based Workshops/ Seminars organized by the VTU and other universities, so as to update their knowledge and to improve the teaching practices. • The college provides ample books and other teaching and reference materials like journals, magazines, teaching models and software to enable its teachers to ensure effective delivery of curriculum. Library committee conducts meeting and takes appropriate decision regarding the requirement and procurement of books, journals, e-journals. • Ensuring staff have opportunities for keeping their skills and industry/business expertise up to date Encouraging faculty members to evaluate their own learning and teaching practice Encouraging innovation in learning and teaching - planning how practice can be shared amongst lecturers Establishing MOUs with various industries and institution. • Every Faculty member is focused to achieve Programme Educational Objectives, Programme Specific Outcomes, Programme Outcomes through Course Outcomes under each programme. The students of concerned branch would have gained strong fundamental knowledge, acquired enough managerial skill and developed an inclination for lifelong learning. The teaching and laboratory course plans are approved by Head of Department (HOD) before the start of semester and communicated to students by respective course teacher and proctor. • The course files are evaluated by Internal Quality Assurance Committee (IQAC) with the help of committee of senior subject teacher and HOD. IQAC monitors the academic activities on regular basis to ensure the execution of timetable. It also monitors the implementation of academic calendar and teaching learning process and report the gap, if any to the HOD for suitable action • Well established proctorial system in the institution provides the platform for close interaction between the teacher and student. In the proctorial system around

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
NIL	NIL	Nil	0	NA	NA

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
Nil	00	Nil
No file uploaded.		

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	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	CSE/CV/EC/ISE/ME	01/08/2019
Mtech	Structural Engineering, Machine Design	01/08/2019
MBA	MBA- HR, MM, Finance	01/08/2019
MCA	MCA	01/08/2019

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

	Certificate	Diploma Course
Number of Students	0	0

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
Technical Seminar on Semiconductor Industries in Present Scenario	19/08/2019	96
Python for Beginners	27/02/2020	60
One Day Seminar On Automated And Robotics. (Aqmenz Automation Pvt, Ltd, Bangalore)	21/08/2019	60
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Designing Combinational Circuits Using Adiabatic Techniques	4
BE	Infant cradle monitoring system using IOT Smart dustbin management using IOT	4
BE	Efficient regular language search for secure cloud storage	4
BE	Analysis of earthquake resistance building with and without shear wall	4
BE	Rail Wheel And Axle Manufacturing Plant , (Yelahanka)	4
MBA	Organisation Structure Study	1
MCA	Institute Management	1

System

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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

The goal of feedback system is to focus on the purpose of enhancing the quality of teaching and learning. Brindavan College of Engineering practices and follows summative feedback system for continuous refinement. The feedback from all the stakeholders of each program, teachers, student alumni and parents eventually helps to fine tune the teaching learning process, personality development, skill enhancement and overall wellbeing of students. The institute follows a standardised procedure and implemented at different levels. The summative feedback from students regarding the quality of teaching learning process shall be collected every semester. Teaching index has been evaluated by likert scale method for every teaching faculty and the results were analysed very carefully, same have been provided for teachers, advisors of each class, HODs, Principal and programme advisory committee. The institution regularly collects the opinion on current industry skill requirements of highest demand from industry representatives during the course of stakeholders meeting. The view points on the developments on up-gradation of emerging technology will be reviewed periodically. The feedback from the student alumni is an important factor alumni of the institute spans across the globe, feedback were collected periodically through appropriate mean. The alumni-institute collaboration has been initiated at various levels in view of present developments in technology through the MOUs. This potential expansion could have the implications in developing skills of students in projects relevant to society. The feedback from the outgoing students of all the programs provides the collective approach in evaluation of commanding in improving the quality of education and improvement of necessary skills to meet the program educational objectives. This survey was used to identify the difficulties the students faced during their specific program outcomes. The institution aims to produce technically competent socially responsible individuals for the overall improvement of the character of a student in knowledge and acquire skills. The institution takes feedback from parent and guardian. Stakeholder meeting was conducted once in a year at the Department level to gather feedback from stakeholders on various aspects of the programme. These collected feedbacks are consolidated and discussed in Department level committee meetings to decide the necessary actions needed at Department level to impart the knowledge and to attain skills for current industrial requirements. The consolidated reports were presented at institution level committee meetings. The feedback was used to scrutinize and refine the policies so that institution moves closer to its vision.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	STRUCTURALENGG	30	10	3
MCA	MCA	30	25	22
MBA	MBA	30	25	17
BE	MECH	120	20	12
BE	ISE	60	60	50
BE	ECE	120	60	36
BE	CSE	120	140	120
BE	CIVIL	120	40	15

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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	843	74	71	18	2

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
102	102	17	17	7	17

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

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

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

Mentoring of students thus, is an essential feature to render equitable service to all our students having varied background. Student-mentorship has the following aims: a. To enhance teacher-student contact hours b. To enhance students' academic performance and attendance c. To minimise student drop-out rates d. To identify and understand the status of slow learners and encourage advanced learners e. To render equitable service to students The institute has followed the suggestion made by IQAC to introduce the mentoring system. The importance of integrating the system for enhancing students' performance. With a wide variation in the student population in regard to educational and economic background, the system promises to provide a better understanding of individual students and bring out their highest potential. It also appears to be the most effective method/weapon for mitigating cases of those students who are vulnerable to drop-out from studies. Design Implementation: The IQAC had taken the initiative of implementing the mentoring of students. Students are categorised based on the streams of studies and also according to their core subjects. They are divided into groups of 10-15 depending on the number of students. Each group is assigned a teacher-mentor who would perform mentoring duties. After collecting all necessary information, Mentors are expected to offer guidance and counselling, as and when required. a. It is the practice of Mentors to meet students individually or in groups. b. In isolated cases parents are called for counselling/special meetings with the Principal at the suggestion of the

Mentor. c. If a student is identified as having weakness in particular subject, it is the duty of the Mentor to apprise the concerned subject teacher. Targets achieved The Remedial Classes have been institutionalised after the implementation of the Mentoring System. Need-Based remedial classes have proved to be beneficial to the students in particular and the entire college in general. The institutional practice of Mentoring System has considerably enhanced the campus environment and brought about: ? Enhanced contact hours between Mentors with their respective students ? Improvement in students' attendance records ? Minimised student drop-out rates (apparently due to Mentors' intervention before a student falls short of attendance or has been regularly abstaining from classes) ? Identification of slow learners for conducting Remedial Classes ? Advanced learners identified and encouraged with incentive prizes

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
917	91	1:10

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
106	102	4	6	15

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr R Prabhakara	Principal	Life Time Achievement Award
2019	Dr.Md. Arif Pasha	Professor	Exemplary Academic Administrators of Higher Education Institutes Across India
2019	Dr.M Gurusamy	Professor	Young Educator and Scholar Award
2019	Dr. Nayeem Ahmed	Professor	Best Supporting HOD
2020	Dr.M Gurusamy	Professor	Distinguished Teacher Award, Management-2020

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
MCA	MCA	5th Semester	28/12/2019	18/02/2020
MCA	MCA	3rd Semester	12/02/2020	09/04/2020

BE	All Branches	ODD Semester	30/11/2019	20/02/2020
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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Brindavan College of Engineering is affiliated to VTU and as per VTU Guidelines the College adheres to the Internal Evaluation System prescribed by the VTU. The University has Specified Three Internal Tests per semester along with assignments. The tests are conducted by the respective departments of the college for each and every subject. The assignments are given by the respective subject teachers covering important questions from the syllabus. The Tests conducted following all the rules and regulations of the University including seating arrangements. Every student has a subject wise blue book for writing the test and this test book is kept with the college for a period of five years. The design of the blue book has been made specifically for the college/department requirements and is unique to Brindavan College of Engineering. The Assignments are written in a pink book and the design of this book is also in accordance with the respective department requirements. The students of the science stream conduct experiments in their respective laboratories and this forms an integral part of the internal evaluation. The Practical Record books are maintained for each student in subjects for which practical experiments are conducted. Apart from the tests and assignments the students are assessed in their presentation skills. Every student is required to make a presentation in respective subjects and topics. The respective subject teacher assesses the student and assigns marks. The marks for presentations and class participation are considered for the final Internal Assessment which is a University Requirement. The College and respective departments systematically plan many activities/events and competitions for students. The students are evaluated on the basis of their participation and certificates and prizes are distributed. Students are also assigned case studies to analyze and present in the class. The case studies allow the students to display their analytical skills and logical thinking acumen. The participation of students in case study activities is also considered for internal evaluation under the presentation and class participation criteria for internal assessment. The documents maintained in this regard are as follows: a) Test Answer Booklets b) Assignment Booklets c) Internal Scheme d) Internal Evaluation of Students in Prescribed Format

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

The Academic Calendar of the Institution is prepared keeping in mind the Academic Calendar issued by the VTU. The University releases the academic calendar for each semester through hard copy and soft copy. Once the academic calendar is received from the University the respective departments will prepare the department calendar of events in line with the University Calendar of Events. The Academic Calendar received from the University specifies the following schedule of dates: 1. Class Commencement date 2. Last Working Day 3. Commencement date of First Internal Tests 4. Commencement date of Second Internal Tests 5. Commencement date of Third Internal Tests 6. Internal Assessment Submission Date 7. Practical Examination Dates 8. Theory Examination Dates The Department Calendar is prepared keeping in mind the Academic calendar dates received from the University. The Department Calendar will include the following: 1. Class Commencement date 2. Last Working Day 3. Commencement date of First Internal Tests 4. Commencement date of Second Internal Tests 5. Internal Assessment Submission Date 6. Practical Examination Dates 7. Theory Examination Dates 8. Guest Lecture Dates 9. Industrial Visit Dates 10. Workshop/Training Related Dates The department calendar is circulated to all the concerned students and faculty members and is displayed on the notice

boards. The department along with the Principal have regular meeting and review the progress of activities mentioned in the academic calendar. Due to certain unavoidable reasons the college calendar of events will need to be adjusted or modified in consultation with the respective HOD's and Principal.

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://brindavancollegeofengineering.com/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
BE	BE	CIVIL	95	82	86.31
BE	BE	CSE	93	83	89.24
BE	BE	EC	65	60	92.30
BE	BE	ISE	45	45	100
BE	BE	ME	58	58	100
MBA	MBA	MBA	20	20	100
MCA	MCA	MCA	9	9	100
M Tech	Mtech	Structural Engineering	3	3	100

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2.7 – Student Satisfaction Survey

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

<https://brindavancollegeofengineering.com/>

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	2	IEI	0.3	0.3

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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Webinar- "Understanding ERP and SAP"	MCA	10/06/2020
Webinar - "Evolution of Data Analysis As a	MCA	12/06/2020

Stream"		
One day webinar on "RECENT TRENDS IN ADVANCED COMPOSITES AND SMART MATERIALS amp STRUCTURES",	MECHANICAL	11/06/2020
Workshop on Internet of Things	Computer science/ ISE	09/03/2020
Career Scope in Banking	MBA	04/11/2019
Webinar on PRE ENGINEERED BUILDING IN SMART CITIES	CIVIL	04/06/2020
Training cum Workshop on sales Management	MBA	18/09/2019
Webinar - "Technologies to learn and succeed during the pandemic"	MCA	13/06/2020
Webinar - "Understanding Spring Framework using Java"	MCA	14/12/2020
Webinar - "Career in Computer Network"	MCA	17/06/2020
Two days Workshop on PLC RAPID PROTOTYPE-3D PRINTING.	Mechanical Engg	26/09/2019
Two days Workshop on Intensive interacting practice on IC engines	Mechanical Engg	23/10/2019
Career Scope in Finance	MBA	04/11/2019
Eight days SDP on Ready for Millennium Challenge	MBA	08/06/2020
Cyber Security	CSE/ISE	05/03/2020
Atlas180 coding Bootcamp	CSE/ISE	03/03/2020
Workshop on Cloud Computing and AWS	CSE/ISE	29/01/2020
software Training	CSE/ISE	04/10/2019
Worshop on AI and ML	CSE/ISE	26/08/2019
Software Testind and Web application	CSE/ISE	23/08/2019
Cloud Computing	CSE/ISE	22/08/2019
One day seminar on Automation and robotics	MECHANICAL	21/08/2019
Guest Lecturer - Turbo machines and its industrial applications	MECHANICAL	05/09/2019
One day seminar on Recent trends in space and defence	MECHANICAL	16/09/2019

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
YOUNG EDUCATOR SCHOLAR AWARD	Dr.M.Gurusamy	National Foundation for Entrepreneurship Development (NFED), Coimbatore	05/09/2019	Researcher
Life time Achievement award DEMIC ADMINISTRATORS OF HIGHER EDUCATION INSTITUTES ACROSS INDIA	Dr R Prabhakara	ACCE Bangalore Center	25/09/2019	Life time Achievement award

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Brindavan College of Engineering Innovation Cell	BrCEIC	Brindavan College of Engineering	BrCEIC	INTERDISCIPLINARY	13/08/2019

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
6	0	2

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
Mechanical Engineering	0
Civil Engineering	0
Master of Business Application	0

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	ECE	2	4
International	Mechanical	3	4
International	CIVIL	16	3
International	Basic Sciences	3	0.8
National	MBA	6	4
International	MBA	9	4

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

Department	Number of Publication
Mechanical	2
ECE	4
MBA	11
Basic Sciences	4
ISE	2
MCA	1

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
AES Based Algorithm for Image Encryption and Decryption	Dr Dinesh	Perspectives in Communication, Embedded-systems and Signal-processing-PICES	2019	2	Brindavan college of Engineering2	2

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

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Sm3 Doped Lithium Strontium Borate Glasses for Solid State Lighting Applications.	A R Venugopal	Glass Physics and Chemistry	2019	1	1	Brindavan College of Engineering

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	40	197	6	109

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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Career Scope in Banking	Axis Direct	2	20
Employability Enhancement in Stock Exchange	Bombay Stock Exchange	2	36

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
00	00	00	0

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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/Agen cy/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
NSS	Brindavan College of Engineering	World Environment Day	45	22
NSS	Brindavan College of Engineering	Tree Plantation	80	50
NSS	Brindavan College of Engineering	Campus Cleaning	80	300

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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
One day seminar on Automation and robotics	Faculty and Students	Self	1
Two days Workshop on PLC RAPID PROTOTYPE-3D PRINTING.	Students	self	2
Two days All India seminar on Mechanical Tribological behavior of	Faculty and students	IEI	2

Advanced Composites		
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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

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship / Project Projects and internships	Organisation Study	HAL, Quality control division, Bangalore	15/07/2019	14/08/2019	Students
View File					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
ATS Infotech	14/02/2019	Training and Placements	57
Aqmenz Automation Pvt Ltd	05/08/2019	Training and Placements	82
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
5016545	5016545

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Seminar halls with ICT facilities	Newly Added
Classrooms with LCD facilities	Newly Added
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation

Easy Lib	Fully	6.2A	2014
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4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	14169	3150000	235	74500	14404	3224500
Reference Books	2541	719000	36	8300	2577	727300
Journals	181	318000	0	100000	181	418000
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NA	NA	NA	Nil
No file uploaded.			

4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	504	14	2	11	0	40	10	30	0
Added	6	0	0	0	0	3	0	0	0
Total	510	14	2	11	0	43	10	30	0

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

30 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
subject wise power point presentations	https://brindavancollegeofengineering.com

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
496	300	80	116

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)

The institute has formed an executive committee comprising of the Chairman, Principal of Brindavan College of Engineering. The committee conducts meeting once in 3 months to discuss all the issues related to the functioning of the institution. The Principal of Engineering college conducts meeting with respective Heads of the Department once a month to discuss the issues related to academic and other extracurricular activities. Various infrastructure created by the institution are utilized to the maximum level. The university prescribes laboratory courses in each semester for different departments and depending on the course content, equipments and computers are updated. The department forms batches to facilitate better understanding and interest among the students to carry out the experiments/exercises. The laboratories are also used to carry out mini and final year projects. The library is located centrally and houses text books, reference books, e - books, journals and e - journals with text books being issued to students and faculty on lending basis. Library committee, headed by principal has been formed constituting of Chairman, coordinator, Member Secretary and members from each department. Research is encouraged with students and faculty referring to other sources like reference books, e - books, journals and e - journals. The Sports department headed by sports director conducts annual sports meet with active participation from both students and faculty. The institution has a well maintained play ground which is used by students and faculty for cricket, football, volleyball, kho - kho, kabbaddi, etc. The sports department also has indoor games like badminton, carom, table tennis, etc with good students and faculty utilization. The institution has procured good number of computers with latest configurations in each department. They are used for laboratory courses in each department and projects. The institution has constructed good number of class rooms in each department and they are used for conducting classes, internal assessment tests and end semester examinations. The 3.04 acres beautiful campus is well maintained by the estate manager with the aid of the house keeping and maintenance staff. The water storage units are regularly checked and maintained for quality and levels by the maintenance staff. Seminar halls provided are used to conduct seminars, placement talks, workshops, conferences, guest lectures and other activities.

<https://brindavancollegeofengineering.com>

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	Awards for Toppers and Rank Holders	30	300000
Financial Support from Other Sources			
a) National	1. Social Welfare Department (sc / st) 2. Back Ward Welfare Department (OBC) 3. Minority Welfare Department 4. EDCIL 5. ICCR	408	11545570
b) International	00	0	0

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Software Testing	23/08/2019	30	Gowri Software Solutions
Personal Counselling and Mentoring	20/09/2019	293	Brindavan College of Engineering

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Placement Training and Career Guidance	0	127	0	27

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
0	0	0

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
Amazon	93	10	Infosys	93	7

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	BE	ECE	Australian University	M S
2019	3	BE	CSE	BMSCE, UVCE, BC,	M.Tech, MBA

2019	4	BE	Civil	Sambhram IT	M.Tech
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	15
View File	

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

Activity	Level	Number of Participants
VTU Inter collegiate Bangalore North Zone Volley Ball Tournament (M)	University Level	45
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Winners	National	1	Nil	1B0	Team Event
View File						

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

1. Anti-Ragging Committee: Is involved in designing strategies and action plan for curbing the Menace of Ragging in the college by adopting array of activities. Committee members vigilantly rounds college campus to ensure prevention of ragging.. 2. Women Welfare /Anti Sexual Harassment Committee: Empowers women to face the present challenges by providing tools and techniques that help to eliminate individual stress. The goal is to bring about the advancement, development and empowerment of women A sense of community spirit is created that allows women to face these challenges as a team rather than individually. 3. Students Counselling Committee: Aims to help students become self-aware and reach their highest potential in academic and personal. Provides a confidential atmosphere in which the students can explore any topic or situation and discuss any concerns they may have. 4. Grievance Redressal Cell: Upholding the dignity of the College by ensuring strife free atmosphere in the College through promoting cordial relationship. Encouraging the Students to express their grievances / problems freely and frankly, without any fear of being victimized. 5. IQAC Committee: Aim of IQAC committee is to develop a system for conscious, consistent and catalytic improvement in the performance of institution. Committee makes a significant and meaningful contribution in the accreditation phase of institution and channelize the efforts and measures of an institution towards academic excellence. 6. Interdisciplinary Project Committee: Promotion of interdisciplinary exchange between its members, who work together across the boundaries of individual research institutions and across different disciplines. Effectively conduct, facilitate, and evaluate

interdisciplinary research programs and projects. 7. Sports and NSS Committee/Cultural: Promotes sporting opportunities and contribute to the development of staff and student sport. Various other activities like Swachh Bharath, Blood donation camps etc are also. The cultural events like Fresher's day, Annual day, Kannada Rajyotsava celebrations and intercollege fests etc. are conducted. 8. News Letter / Magazine Committee: Is responsible for soliciting articles, and preparing and distributing the annual newsletter. 9. Hostel Committee: Provide clean, safe and comfortable accommodation effectively and efficiently to the students. The committee monitors the functioning of the hostel and focuses on the welfare of the inmates. . 10. Placement Committee: Envisages an ideal interface between corporate world and the student. It is a nodal point for all placement-related activities and assists students in developing an effective job search strategy by providing relevant information and resources. 11. Library Committee Developing operational procedures, various measures for improvement and development of the Library resources. It strives to inculcate the enriching habit of reading books in a technologically enabled and intellectual atmosphere.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

0

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

2

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)

The decentralization and participative management has been organized in the following ways. 1. Academic Body 2. Governing Council 3. IQAC 1. Academic Body comprises of all HODs and presided by Principal. This Academic Body meets at least once in a month or as and when required as per academic needs. The academic council prepares the calendar of events to take care of teaching-learning process, internal assessment and examination process, co-curricular and extra-curricular activities. This will be helpful in chalking out the plan of action. Academic Body also conducts Academic Audit. In academic audit the committee reviews the lesson planning, result analysis, proctor/mentor system, identification of weak students, and arrangement of remedial classes. It also counsels the faculty members based on their performance. 2. Governing Council consists of Principal, Management representatives and nominee from VTU. Governing Council meets once in a year or as and when required to take important decisions in development of the institutions. Governing Council takes care of review of recruitment process and overall infrastructural development activities. It also takes inputs from IQAC. 3. IQAC comprises of selected members as per NAAC guidelines. It meets twice per semester. It reviews all academic process. It takes care of quality measurements in overall development of the institution to ensure the quality outcomes. It gives inputs to the

Governing Council to improve the overall development activities.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Industry Interaction / Collaboration	Industry institute interaction / collaboration will takes place at different levels. 1. Various departments interact with the industrial experts and invite them for expert lectures to bridge the gap between curriculum and industrial requirement. 2. Departments will arrange students Industrial visits to expose the students to know about state of the art technologies and products 3.MOUs are signed with some industries to give hands on training in state of the art technologies 4. Departments will interact with Alumni and invite them to guide the students about the requirement of the industries and also take their help to bring industries for placements 5.Placement Officer interact with industries to arrange placement drives
Curriculum Development	Our college is affiliated to the Visvesvaraiah Technological University(VTU), Belgaum, Karnataka. As per the rules and regulations of the university, Board of Studies for each program is formed which comprises of professors and experts from various colleges, research centers and industries. The BOS frame the syllabus as per the global trend. BOS send the draft copy to all the colleges which come under VTU. Correction if any are advised by the various faculty of the university. After review curriculum will be finalised.
Examination and Evaluation	As per Visvesvaraiah technological University rules and regulations, examinations are conducted. Examinations and Evaluations contain two parts. one CIE- Continuous Internal Evaluation and SEE - Semester Ending Evaluation. Continuous Internal Evaluation includes the written test along with Seminar/ Assignments/ quiz/ Mini projects etc. We have our own Rubrics of evaluation for Practical Laboratory conduction which comprises

of Conduction, Observation, Report writing, Viva and Applications Semester Ending Examination has written examination for theory subjects and laboratory experiment conduction for practical examinations.

Admission of Students

Our Institution has a professional team to handle entire admission process into various streams of courses available. An admission committee is constituted having discretion to finalize the joining of college. Its consists of a Chairman, Convener and committee Members to look over all aspects of admissions of each student of College. It is an independent body that is constituted to finalize the status of each admission. The marketing and promotions of college is headed by IT department and includes Tele callers to relate with generated leads that are achieved through School visits, Education fairs, and also through Digital marketing. The college also has an Admissions department with counselors. The walk-ins received through Reception are exclusively handled by the admissions department. The related follow up and counselling the parents etc till the verge of closure is handled by this team. By the month of November admissions department in tandem with IT roll out plan of action for the upcoming season for admission. This includes printing of Brochures, Banners, Pamphlets, finalizing gifts, recommendation to attend for Educational fairs etc. The admissions department evaluates the various possibilities to promote the Branding of college. This involves giving advertisements in Dailies Broadcasting in national as well as local channels is also considered. The admissions in college are also supported by reputed consultants. The admissions team maintains a wide strategy of campaigning for admissions. The admissions department has molded a Scheme (MYM) Motivating Young Minds to reach out schools both urban and semi urban in around Bangalore. The objectives that recovered through this scheme are Personality enrichment workshops touching Communication skills and Corporate Grooming. Relevance of Certification Programs along with Curriculum. Promotion of

Entrepreneurship Skills for Self Employment. Impart skills for Selfanalysis to choose specializations among the diversity of Studies. A well count share of leads is generated through this approach reaching schools and colleges. The leads are handed over tThe Architecture department is abundantlyo IT department for further initiatives of closure. The pool of admissions into college is through various modes such as PG CET, CET, ComeDK, NRI, Foreign etc. A specified quota is always maintained in all programmes as to the periodical directions of KEA and other forums towards the cause of Admissions. The closing of Admissions involves four stages: Eligibility Check. Counselling. Screening the documents. Closure.CET, Comed-K, and Management Quota

Library, ICT and Physical Infrastructure / Instrumentation

Library is equipped with 12500 volumes of textbooks and 1600 voulumes of reference books along with 400-e books. This year here additional 272 textbooks have been added. We had 5700 e-journals which comprises of journals from Elsever, Springer, Nature, Taylor and Francis, nimbus, Emerald etc. We have Easylib Library Management software. We have digital library facilities with internet access and in the form of CDs and e- books We are the members of DEL NET and VTU Consortium

Teaching and Learning

College receives calender of Events from VTU. By referring the same, college prepares its own calender of Events which includes number of Working days, holidays, internal assessments test dates and any other curricular and extracurricular activity. Each faculty member prepare his/her lesson planning by considering number of working days and available teaching hours. Most of the faculty members use ICT Teaching learnig techniques. Usually the Faculty memembers are encouraged to attend FDPs, Workshops , conferences etc.,to enrich their knowldge to deliver the lecture better. For laboratory classes, faculty will prepare lab manuals and then conduct the laboratory classes. Continuous Internal Evaluation is followed in both theory and practicals. Assignments, quiz, seminar, mini projects shichever applicable are given as a part of continuous evaluation.

	Expert lectures are arranged for most of the subjects. Hands on workshops are organized in association with industrial experts .for state of the art technological subjects
Research and Development	Our College encourages research and development activities as process of continuous learning. Three research centres in Civil, Mechanical and MBA have been recognised by VTU. Students are registered for PhD programs under these research centres. We are encouraging the students and faculty to carryout interdisciplinary projects. As a result we have established an incubation center in mechanical department. Students and Faculty members those who carried out research work have been encouraged to publish papers in national and international conferences/journals . Students academic projects are carried out through research. The results have been presented as papers in conferences, journals.
Human Resource Management	the HR department will look after the man power requirements of the institution Before the academic year starts, HR Department checks the need of man power in all the department . As per the needs rised by the departments ,advertisements are given in national level news papers fof submission of applications online. The received applications are scrutitized by the HODs as well as Principal. Candidates will be shortlisted as per necessary qualifications. Shortlisted candidates will be called for interview as well as for teaching demonstration in front of the committee. Committee comprises of Principal, Head of the Department, Senior Expert Faculty and HR Director. After interview the selected candidates gets offer letter in consultation with Chairman.

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

E-governace area	Details
Finance and Accounts	Due to implementation of E-Governance the procedure was a very good practice which came into existence which has improved the communication to any business community and with communicating fro Government to Employees to have an effective hazzle free transaction which saves time and

	<p>which consumes lathergic procedure to make the payment the lenghty paper follow-up Moreover the implementation of EGovernance in areas of Finance operations is more effective which makes the Duties and levies to the Government from institutions in methodical way and hazzle free without any paper work</p>
Examination	<p>VTU implement QPDS System for Semester Ending Examinations. QPDS works with VTU Server. Examination applications are filled online trthrough VTU Web portal. Question paper indent is automatic as per the data generated by examination application forms. Question papers will be deliverd online as per the schedule of examinations in supervision of confidential personnel. Examination attendance is generated online. CCTV camera surveillance is mandatory during examination.</p>
Student Admission and Support	<p>Admissions through Common Entrance Test conducted by state government and through Comed-K examination are governed by CET-Cell and Comed-K Cell respectively. It include right from filling up of entrance exam application form, hall ticket generation, seat selection , payment of fees etc though online. These process are governed by the concerned authority online.</p>

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	K S AMRUTHAVARSHINI	FDP ON SOFTWARE APPLICATION IN CIVIL ENGG	NA	1000
2019	NAMRATA F DABALI	FDP ON SOFTWARE APPLICATION IN CIVIL ENGG	NA	1000
2019	Dr.Muhammed Rafee	FDP on Progressive Research Framework in Social Sciences	NA	800
2020	Dr S B BRAHMANANDA	FDP ON TEACHING	NA	500

		PRACTICE IN ENGG GEOLOGY LAB		
2020	RAGHAVENDRA N	CONCEPT, THEORY AND PRACTICE OF ROAD PRICING SCHEMES	NA	1500
2020	PRITHVIRAJ B R	CONCEPT, THEORY AND PRACTICE OF ROAD PRICING SCHEMES	NA	1500
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	Research Trends in Image Processing and Pattern Recognition	NA	29/06/2020	30/06/2020	66	0
2020	One Day webinar on Image Processing and Artificial Intelligence using MATLAB	NA	29/06/2020	29/06/2020	113	0
2020	One Day webinar on Quantum Dot Cellular Automata in Nanotechnology	NA	30/06/2020	30/06/2020	135	0
2019	Two days All India seminar on Mechanical Tribological behavior	NA	08/11/2019	09/11/2019	20	0

	of Advanced Composites					
2019	Intensive interactin g practice on IC engines	NA	23/10/2019	24/10/2019	13	0
2020	FDP on on Getting Best out of your students	NA	17/06/2020	17/06/2020	15	0
2020	Webinar on Pre Engineered Building in smart cities	NA	04/06/2020	04/06/2020	40	104
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP on 'An overview of teaching techniques in Engg. Statistics and Linear algebra. At centre of P.G.studies. VTU. Muddenahalli	2	06/01/2020	10/01/2020	5
FDP on Microcontroller and Embedded systems.	1	24/12/2019	29/12/2019	5
Five Days Psychometric and Scale Development in Social Science at IIM-Ahmadabad	1	29/05/2020	03/06/2020	5
One week of Web Seminar on "Excellence in Work Practices in Contemporary	1	27/04/2020	02/05/2020	5

Society				
Four Days Workshop on Structural Equation Modeling (SEM) using AMOS.	1	26/04/2020	29/12/2020	5
Synthesis, characterization and application of advanced materials	1	27/01/2020	31/01/2020	5
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
14	14	49	49

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Provident Fund	ESI	Scholarships

6.4 – Financial Management and Resource Mobilization

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

Conduction of internal audit by the institution which is fair enough for the management to have clear picture about the accounting procedure and to know whether the institution mode of operation in conducting the business/ activities are going on a smooth face manner. According to the Government policy conduction of External audit is compulsory if the organization turnover if it exceeds 1 Crore and which every organization who ever cross the Audit value fixed limit has to undergo the Audit surveillance procedure and the accounts need to be certified by the auditor. Audited accounts which give fair and procedural manner of presenting the books of accounts to the income tax department as well.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
Institute of Engineers	30000	Faculty Development Program
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6.4.3 – Total corpus fund generated

30000

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority

Academic	No	NA	Yes	IQAC
Administrative	No	NA	Yes	IQAC

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

NA

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

Whenever the staffs are recruited they will be trained on 1. Computer skills like typing, advanced typing, Microsoft Excel etc., 2. They will be trained on Communication and Time Management skills 3. Technical support staff will be sent workshops to enhance their technical skills
--

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

Use of Digital Platforms for Teaching and Learning Process Standard Operating Procedure to face COVID-19 Pandemic Interdisciplinary Research Activities Green initiatives

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Incubation center has been initiated	12/08/2019	16/08/2019	31/07/2020	100
2019	Incorporation of Universal Human Values	12/08/2019	12/08/2019	31/07/2020	1500
2020	Full pledge Digital platform was created	20/02/2020	24/02/2020	31/07/2020	1500
2020	Included more than 400 e-books	20/02/2020	20/02/2020	30/07/2020	80
2020	Green Initiatives	29/05/2020	30/05/2020	05/06/2020	150
2020	College Standard Operating Procedure	29/05/2020	29/05/2020	31/12/2020	1500

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
International Womens Day	11/03/2020	11/03/2020	130	20
Self Defence Workshop(women)	14/03/2020	14/03/2020	30	5
Universal Human Values (Awareness on anti ragging ,awareness on drug, anti sexual harrasment)	06/08/2019	06/08/2019	70	60

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

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

Environmental Day was celebrated by sapling plantation for Biodiversity and an awareness among the stake holders was created about the ecological and environmental issues for a clean, healthy and hygiene campus. The staff and students are proactive in keeping up and ensuring the green spread and conscious for cleanliness as well. Green Audit was conducted and various measures have been grasped to ensure that the Institute is heading towards its goal of transforming into eco-obliging space. The institute embraces energy and water conservation practices, tree plantation and effective waste management at source for making the grounds perfect, green and healthy. Several steps have been taken to maintain the green campus.

- The light fixtures with power saving techniques like CFL, LED bulbs, solar heater etc. are been used
- Stakeholders are instructed to avoid utilization of polythene and make the campus plastic free.
- The Institute has kept up garden with an assortment of ornamental shrubs, hedges and trees.
- The college has been declared smoke free zone and drug free zone.
- Waste segregation process is done within the campus and E-waste management is done through E-processing company

Various measures have been grasped to ensure that the Institute is heading towards its goal of transforming into eco-obliging space. The measures are:

- Energy conservation
- Class monitors and house-keeping are informed to switch off apparatus after the class or when not in use.
- Notices are placed in all class rooms, laboratories and offices instructing turn off apparatuses that are not in use.
- The rooms on the top floor of the institution are sufficiently bright, to minimize the utilization of artificial light.
- All electric and electronic equipment utilized in the campus are consistently maintained and repaired to guarantee minimum energy waste.
- Energy conserving lights like LED lamps and tube lights are used in the campus. LED lights which are used in ground floor of engineering block.
- The UPS batteries are kept up in good condition which decreases vitality for charging of batteries.
- All windows are installed with transparent glass which allows adequate sunlight into the rooms, thereby resulting in energy savings.
- In the laboratories, the Computers are switched on as per need under the supervision of lab instructor who also ensures, along with the students, that computers are switched off immediately after use.
- Staff and students are instructed to turn off monitors when not in use.

Use of Renewable Energy The institution believes in the optimum use of energy -

resources and the college has adopted renewable energy as an alternative form for more than a decade. Solar panels are installed on the hostel terrace through which power consumption can be saved. Water Conservation: o Rain Water Harvesting: Rain water harvesting is utmost priority in the institution. Rain water is collected at every block and is fed into a rain water harvesting tank

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	5
Provision for lift	Yes	8
Rest Rooms	Yes	7
Ramp/Rails	Yes	8
Braille Software/facilities	No	0
Scribes for examination	No	0

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	18	4	07/08/2019	1	Engineering Interventions in Farming for Development of Appropriate Technologies	Engineering Interventions in Farming for Development of Appropriate Technologies	230
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Standard Operating Procedure (SOP)	18/05/2020	Brindavan Group of Institutions has framed Standard Operating Procedure with the guidelines of AICTE/UGC/MHRD/DoHE/GoI/GoK/KSHE/VTU/BCU/BTE/BGI for the pandemic situation COVID 19 and various preventive measures are been taken. Home quarantine was advised and travel history was recorded for stakeholders travelled

outside Bangalore. Advised to maintain hygiene and social distancing. Compulsorily use of mask and face shield during working hours and a declaration forms has been collected. Markings are made with separation of two meter Screening for thermal, respiratory check-ups and sanitization are done at entry points. Entire floor and contact points are sanitized daily. Proper sign boards are displayed. Used sanitized wastes are disposed with precautionaries. Hostel Regular Health check-up files, Library visitors file is maintained. Examination halls were sanitized before and after examination. Hand sanitizers were kept in examination halls.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Universal human values(Awareness on anti ragging,awareness on drug, anti sexual harrasment)	06/08/2019	06/08/2019	230
View File			

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

- E-waste Management • Environmental Awareness Camp • Smoke Free Campus • Water Management • Plantation • Plastic Free Campus • Rain Water Harvesting • Energy Conservation

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Brindavan College of Engineering has been practicing series of good practices in academics as well as co-curricular activities. A few of the best practices worth mentioning are listed below: (A) BEST PRACTICE NO.1: Title of the Practice: STUDENTS FEEDBACK SYSTEM Objective of the practice: The goal of feedback system is to focus on the purpose of enhancing the quality of teaching and learning. This system promises quality assurance to the students for their well-being. The Context: The feedback system was implemented for student's welfare to upgrade communication, curriculum, physical activities etc. Feedback system focuses on: • Evaluation of teaching and learning abilities. • Students affairs and concerns • Enhancement and development of infrastructure •

Strengthening the overall academic environment. Feedback system also concerns on library facilities, transportation, Internet/ Wi-Fi facilities, water, sanitation and hygiene in the campus. Suggestions from students are considered for the betterment of facilities been provided. This procedure explains that there is a good relationship between the students learning environment and teachers. Subsequently assessing the performance of lecturers, counselling the teaching staff by HOD's and Principal and promoting faculties to gain proficiency and become expertise by attending workshops, seminars, conferences, Faculty Development Programme which helps in conveying students. The Practice: The feedback is taken once in a semester. System contains a central feedback coordinator and also coordinators at department level for the smooth conduction of activity. Feedback contains questionnaire's which are answered by students by selecting appropriate options. The questionnaire mainly concentrates on teaching- learning aspects, followed by a comment section which helps students to give suggestions. Evidence of Success: • The feedback report helps the faculties about the areas of improvement and deliberately makes effort for the same. (B) BEST PRACTICE NO.2: Title of the Practice: PROCTORIAL PROCESS Scope: Individual proctoring and counselling system is to facilitate the personal, academic, and social growth of students, identify their needs and give support accordingly. This system promises to monitor and encourage students in their growth and development. Highlights: The proctor is a teacher to whom particular numbers of students are allocated. The Proctor acts as a local guardian to solve the academic and all other criteria's of the institute. The Student counseling cell comprises of following members: • Chairman (Principal) • Chief Co-ordinator (Senior Faculty) • Deputy Chief Co-ordinators: one faculty from each department. • Student Nominee: (i) One Male and one Female Student from each department. (ii) Representatives from Boys Girls Hostel Role of the proctor: Proctorial Processing is carried out according to AICTE / VTU norms. Every proctor is assigned 15-20 students in the respective department. The proctor meets the student periodically, checks his/her advancement and discuss their difficulties and counsel as per individual situations. Ensures that the academic progression of a student is continuously monitored and assessed. The proctor keeps track of academic progress of the allotted students like marks, monthly attendance. Also helps students to define and develop realistic educational career plans through schedule planning for each semester and co-curricular and extracurricular activities. Proctor pays special attention should be paid to students who are facing hurdles in academic progress. Shares the progress, performance, career planning of the student with their parent In the wake of finding any issues or concerns its the mentors duty to hint the concerned authorities like HOD, principal and parents about the student. This provides appropriate guidance for improvement. Hence this encourages student's development. During the pandemic situation COVID 19, online counselling was done weekly to handle the uncertainties currently faced and cope with their emotional responses. Create learning online environment, provide resources, help to set study schedule and boost their confidence Evidence of Success: • Parents will get to know the students' performance through Whatsapp, SMS and calls • Faculties will understand student needs and advice appropriately. (B)BEST PRACTICES- 3 Title of the practice: CIVIC RESPONSIBILITIES Purview: Brindavan College actively participates in social and environmental issues in community with a focus on the common good. The Context: In Contemporary society, the students are exceedingly insensible about the issues in the Society. Consequently, the students must be given awareness about the general public and extension activities. The Practice: The Institute persuades and inspires stakeholders in numerous activities: • Field work • Participation in Marathon, Walkathon (Traffic awareness). • Environment Awareness • Sponsoring and donations for relief and rehabilitation of people affected by natural calamities. • Student's contribution to old age homes by frequent visits, physical and monetary related offer assistance. • Campus Cleaning and

Beautification of College. The institute also extends its hands by involving in different social mindfulness programs as recorded: Social awareness programs • The NSS unit of Brindavan College of Engineering had conducted plantations on 10th 2019 in the campus. Around 200 saplings were planted in the campus. • Swacch Campus was organized by National Service Scheme on 26th October 2019. Under this various activities related to cleanliness were performed by NSS volunteers. • Through Monthly lecture series awareness on various fields such as sanitation, importance of waste management, healthy heart for healthy community etc. is been given. • Awareness on various topics such as Constitution, Moral Ethical etc. was organized. • An awareness program on traffic and crime was organized on 13th August 2019 regarding the Traffics rules and regulation. The safety measures were discussed. • A lecture on "Engineering Interventions in Farming for Development of Appropriate Technologies" was organized. Blood donation Camp and Eye check-up: A blood donation camp and Free general check-up was organized for the students and faculties on 8th August 2019, in association with Lions Blood Bank and Red Cross. This camp made the students and staffs truly experience the joy. Evidence of success: • The Institution has received a "Blood Donor Award" from Lion's Club. • Students got the Awareness on various topics such as traffic rules, water saving, solid waste and pollution • The students developed the quality of integrity through the extension activity. • Student participation in various socio-cultural activities has greatly increased.

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

<https://brindavancollegeofengineering.com>

7.3 – Institutional Distinctiveness

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

We have adopted Outcome based Education and gives in best for Under Graduate and also Post Graduate. Institute assimilates distinctive teaching- Learning process and an active Research Development. Institute exceptionally incorporates methodologies and takes keen interest in exposing and improving the knowledge and skills of stakeholders. An excellent academic ambience with highly motivated, learned and talented faculties with care and share policy. Faculties are active in research programs and have published a good research papers in various National / International peer reviewed Journals. Faculties are encouraged to attend FDP's, workshops and conferences. Each department has been motivated and funded to organize National Conference and Tech-Fest every year. Initiated Inter-disciplinary projects and Incubation Centre. Teaching process involves activities, projects and case studies. Laboratory videos are shared with students to enhance their practical skills. Institute invites Academicians and Industry experts to conduct Seminars, Workshops, Webinars, and Expert Lectures etc., to bridge the gap between university syllabus and industry requirements. Institute has signed MOU's with Sabha Solar Energy, ATS infotech, Aqmenz Automation, Super Tough Coat, Value Motor Agency and various agencies. Students are guided and motivated to enroll in various Add-on Courses. Online classes were conducted effectively and respective course materials, videos lectures were shared during the pandemic COVID-19. The Institute incorporates a systematic mentoring system. Each mentor is allotted 15-20 students. Student's progress and concerns are intimated to the parents and HOD. Remedial classes are provided for slow learners to improve their performance. Advanced learners are encouraged to reach greater heights by providing them with all the facilities needed. During the pandemic situation COVID 19, Institution has framed own SOP, online counseling was done to handle the uncertainties currently faced and cope with their emotional responses. This

counseling was extended to parents as well. The Institute has Digital library.

"EASY LIB" software is used for library management. Library possesses membership in VTU consortium through which students and faculties can access E-journals and E-book. We have a Career Counseling, Training Placement cell headed by Placement Officer and faculties are also involved. This cell provides services in career guidance and information of job opportunities to students and also works as information center for various employment opportunities. Personality development programs, communication skills, pre-placement trainings and group discussions are conducted for beneficial of students. More than 200 students from B.E, MBA and MCA are placed in various companies. Many students have enrolled in foreign universities for higher education. To help the needy students, college co-ordinates with the State and Central Government in securing large number of scholarships. Activities are conducted to create awareness about Environmental Consciousness. Institution has MOU with "SSNMC Super Speciality Hospital", which gives discount on inpatient and OPD consultation for our Employees/ Students and their dependables. College has initiated many Awards namely Best outgoing student Award, Award for Toppers etc. which motivates and inspires them and also values in gender equity. Institute arranges Alumni meet every year and contributes specifically in student's progression.

Provide the weblink of the institution

<https://brindavancollegeofengineering.com>

8.Future Plans of Actions for Next Academic Year

1. Establishment of Research Centres in few of the departments. To write research proposals in the cutting edge technologies to obtain IPR and Patents.
2. To start the process for applying for NBA
3. To consolidate UG/PG teaching learning process as per outcome based education.
4. To develop experts in each department for industrial consultation.
5. To form clusters for interdisciplinary research to attract international recognition.
6. Understanding National Education Policy for effective adaptation towards the growth of the organization.
7. Establishment of incubation centre and centre of excellence in various departments .
8. To train the teachers from other institutions regarding outcome based education.
9. To strengthen the placement and training department over skill track for better employability
10. To establish Alumni Association to start various alumni activities
11. To create platforms for stakeholders feedback system to enhance the quality of technical education
12. To consolidate established counselling centers for students.