



Yearly Status Report - 2018-2019

Part A

Data of the Institution

Part A	
Data of the Institution	
1. Name of the Institution	BRINDAVAN COLLEGE OF ENGINEERING
Name of the head of the Institution	Dr B R Niranjan
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	beprincipal@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	private
Name of the IQAC co-ordinator/Director	Prof. Venkatesha G
Phone no/Alternate Phone no.	08028478388
Mobile no.	8867702800
Registered Email	engineering@brindavancollege.com
Alternate Email	hodece@brindavancollege.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://www.brindavancollege.com/AOAR17-18/AOAR2017-18.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.brindavancollege.com/AOAR18-19/AcademicCalender2018-19.pdf

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
IQAC Meeting	13-May-2019	10

	1	
IQAC Meeting	08-Feb-2019	10
	1	
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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
NIL	NIL	NIL	2019 0	0
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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 :	4
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

1.Improvement in ICT teaching learning process.

2. Industry -Institute Interaction

3. Hands on workshops

4. More ISR Activities

5. Emphasis on faculty registration to NPTEL and other MOOC Courses

[View File](#)

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

Plan of Action	Achievements/Outcomes
Emphasis on Swayam NPTEL MOOC courses	Many faculty members have registered and got certificates for different MOOC courses
ISR Activities	Blood Donation Camps, Health check up camps and swatch bharaath Abhiyan have been conducted
Deputing teaching and non teaching staff various ICT training programs	Emphasis has been given to teachers training programs by deputing them to various FDPs, Special care has taken to the staff those who have less than 5 years of experience newly appointed staff
Introduction of ICT Based Class rooms	Wifi connections, internet facilities are enabled at each department for ICT teaching learning
Communication Skills Development	Communication skills workshop was organized for staff and students to enhance their communication skills
Skill Development on MS Office	Skill development program on MS Office was conducted to Non-teaching staff
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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Board of Council	05-Mar-2019

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

2019

Date of Submission

22-Jan-2019

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)

Management Information System has been implemented Partially in the institute.

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. 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 of 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.

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

Brindavan College of Engineering is an affiliated institute; the institute follows the Visvesvaraya Technological University curriculum. The following procedure is created and used to ensure that the curriculum is implemented effectively. Plan for effective curriculum implementation: In accordance with AICTE guidelines, we are running a student induction programme for first-year students to boost their self-confidence and communication skills as well as familiarize them with the concept of outcome-based education in technical education. The principal conduct first meetings with the heads of the various departments to discuss plans for the curriculum's successful implementation. In addition to the standard/traditional chalk and talk methods, teachers are encouraged to implement cutting-edge teaching strategies such as presentations, assignments, discussions, workshops, seminars, and industrial visits. We construct an Objective Driven Teaching Plan in accordance with the University's given academic calendar, which is distributed to all departments at the start of each semester. Throughout the semester, faculty members keep the course manual. The College encourages its faculties to attend Orientation/Refresher Courses/Workshops/Seminars held by the University in order to keep up with new information and enhance teaching methods. The college offers adequately books as well as other teaching and reference materials, including teaching aids, models, and software, to help its faculties to deliver the programme effectively. The library committee holds meetings and makes the necessary decisions about the need for the acquisition of books, journals, and electronic journals. Providing personnel with opportunities to stay current on their knowledge of the industry and business. Encouraging faculty members to examine their own learning and teaching methods promoting innovation in teaching and learning by organizing the sharing of practice among professors. Establishing MOU's with various industries and institution. The students of that branch

would have gained strong fundamental knowledge, acquired enough managerial skill and developed an inclination for lifelong learning. The teaching and laboratory plans are approved by Head of Department (HOD) before the start of semester and communicated to students by respective course teacher. The course files are evaluated by Internal Quality Assurance Committee (IQAC) with help of concerned senior subject teacher and HOD. IQAC monitors the academic activities on regular basis to ensure the execution of timetable. It also monitors execution of academic calendar and teaching learning process and finds the gap, if any. For a group of around 20 students a teacher is allocated as Mentor. Mentor conducts a weekly meeting and does the counselling of poor performing students. The academic performance of students is continuously monitored by conducting unit tests, mock practical examinations during the semester. Bridge courses are organized and conducted for the first year students and lateral entry students to help them understand basic concepts of Mathematics and Engineering. Employing learner centric techniques such as assignments, peer learning, group discussion, brain storming, use of NPTEL lectures, case studies, projects, quiz etc., in the delivery of the academic courses. Views of experts from industry, academia and alumni on curriculum.

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	01/01/2019	0	NIL	NIL

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BE	NIL	03/01/2018
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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	01/08/2018
MCA	MCA	01/08/2018
Mtech	STRUCTURAL ENGG	01/08/2018
MBA	MBA	01/08/2018

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
ANDROID APP DEVELOPMENT	15/11/2018	13
COMPUTER COMMUNICATION AND NETWORKING	29/10/2018	25
BUSINESS ANALYTICS	21/11/2018	31

INTERNET OF THINGS	10/10/2018	35
INTRODUCTION TO ARDUINO PROGRAMMING	01/10/2018	10
SCIENTIFIC FOUNDATION HEALTH	11/02/2019	25
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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	PROJECT	74
BE	PROJECT	66
BE	PROJECT	31
BE	PROJECT	25
BE	PROJECT	57
Mtech	PROJECT	7
MBA	PROJECT	11
MCA	PROJECT	4
BE	INTERNSHIP	74
BE	INTERNSHIP	66
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
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)

<p>Feedback Obtained</p> <p>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. 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 Suggestions from students are considered for the betterment of facilities that have been provided. Feedback Analysis Committee selects department level co-ordinators to ensure smooth conduction of the activity. Feedback evaluation form contains questionnaires to be answered by selecting appropriate options. The questionnaire mainly concentrates on teaching-learning aspects, followed by a comment section which helps the stakeholders to give suggestions. This feedback provides appropriate guidance for improvement. Hence this encourages students to give free and fair feedback.</p>
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For the academic year 2018-19, feedback had been collected from the students of even semesters. Evaluation was done on a five point scale and percentiles were calculated. Feedback was collated and faculty wise percentage was evaluated department specific. Committee has decided that an appraisal of 70 as cut off for faculties. Committee has decided that faculties having an appraisal less than the cut off percentage will be given time to improve their performance by hand holding and motivating them. Feedback analysed from the stake holders was submitted to the Board of Governor's Council via IQAC for further process. The feedback analysis process has put an increasing emphasis on the need for involvement of parents in the quality assurance of excellent education. Parent's feedback provides an opportunity for them to comment on the quality of their ward's learning experience, as required in preparation for and as part of review process. Alumni provide a platform to connect, collaborate and network with past and current students. Alumni feedback was collected with respect to the institutional infrastructure, training and placement, faculties etc. Evidence of Success: ? The feedback report helps the faculties about the areas of improvement and deliberately makes effort for the same. ? It helps to assess the success of academic provision in relation to the expectations of both the parents and the students.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BE	CIVIL ENGINEERING	120	30	23
BE	COMPUTER SCIENCE ENGINEERING	120	150	104
BE	ELECTRONICS AND COMMUNICATION ENGINEERING	120	50	21
BE	INFORMATION SCIENCE ENGINEERING	60	30	18
BE	MECHANICAL ENGINEERING	120	35	22
MBA	MASTER OF BUSINESS ADMINISTRATION	60	25	24
MCA	MASTER OF COMPUTER APPLICATIONS	60	15	9
Mtech	STRUCTURAL DESIGN	30	10	4
Mtech	MACHINE DESIGN	30	0	0

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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
2018	1068	59	102	18	8

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
128	100	10	8	6	5
View File of ICT Tools and resources					
View File of E-resources and techniques used					

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

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
1127	128	1:9

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

128	128	0	19	17
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2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. Mohammed Arif Pasha	Professor	Life Time Achievement Award by International Organization of Scientific Research and Development, Chennai

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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
MBA	MBA	ODD	31/01/2019	28/02/2019
MCA	MCA	ODD	31/01/2019	28/02/2019
BE	CS/CV/IS/EC/ME	ODD	04/12/2018	15/02/2019
BE	CS/CV/IS/EC/ME	EVEN	17/06/2019	16/08/2019

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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 University Guidelines the College adheres to the Internal Evaluation System prescribed by the University. 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 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 University. 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 institution 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 such as bundh / strikes the department calendar 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://www.brindavancollege.com/ECE.php>

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
M.Tech - SE	Mtech	STRUCTURAL ENGG	7	7	100%
MBA	MBA	MBA	11	7	63.63%
MCA	MCA	MCA	4	4	100%
IS	BE	IS	28	28	100%
CS	BE	CS	66	62	94%

CV	BE	CV	74	64	86%
EC	BE	EC	31	30	98%
M.Tech- MACHINE DESIGN	Mtech	MACHINE DESIGN	0	0	0
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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://www.brindavancollege.com/AQAR18-19/SSSReport2018-2019.pdf>

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
Total	0	NIL	0	0
View File				

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
ROBOTICS	MECHANICAL ENGINEERING	25/04/2019
Design Detailing of RC Steel Structures	CIVIL ENGINEERING	13/08/2018
Awareness on IPR	Electronics and Communication Engineering	28/07/2018

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
MANUFACTURING TECHNOLOGY QUIZ CONTEST- IMTI-2019 BENGALURU	ABAY KUMAR YADAV SHABAZ KHAN SWAPNIL MISHRA ABDUL BASHEER AMEEN B	IMTEX	27/01/2019	GOT runner up Prize
Life time achievement award	Dr. Mohammed Arif Pasha	International organisation of scientific research and development at chennai	29/11/2018	Engineering, Science and Management
Women Researcher Award	Dr. C.Shakeela Banu	International organisation of scientific research and development at chennai	29/09/2018	Engineering, Science and Management

Best teacher of the year	Dr. M Gurusamy	International association of research and developed organization in association with gurukul institute of engineering and technology at chennai	28/08/2018	Research and Development in Commerce and Management
Outstanding scientist award	Dr. M Gurusamy	International organisation of scientific research and development at chennai	28/11/2018	Engineering, Science and Management
Outstanding young Researcher in Management	Ms. Saumya Singh	International innovation and betterment excellence in technical research by IJRULA	11/12/2018	Young Researcher Award
Best young research award	Dr. S Amudhan	BY GRABS Educational charitable trust chennai	02/03/2019	Engineering, Science and Management
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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
NIL	NIL	NIL	NIL	NIL	11/03/2019
View File					

3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
0	0	1

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

Name of the Department	Number of PhD's Awarded
CIVIL ENGINEERING	0
COMPUTER SCIENCE AND ENGINEERING	0
ELECTRONICS AND COMMUNICATION ENGINEERING	0
INFORMATION SCIENCE AND ENGINEERING	0
MECHANICAL ENGINEERING	0
PHYSICS	0

CHEMISTRY	0
MATHEMATICS	0
MBA	0
MCA	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	MECHANICAL	3	3
International	ECE	9	3
International	ISE	3	3
International	CSE	2	3
International	MBA	1	2
View File			

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 ENGINEERING	1
CSE	1
MBA	6
View File	

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
An Experimental Investigation on Flexural strength Behavior of Hybrid Polymer Composites Materials(Carbon fiber-particle graphite Glass Fiber)by Varying its thickness	Dr.Nayeem Ahmed M	Intl. Journal of Innovative Science and research Technology	2018	0	NO	0
Investigation of	Dr.TILAK .S.R	IJMPERD	2018	0	NO	0

effect of injection pressure on performance and emission characteristics of composite oil biodiesel on DI CI ENGINE						
Evaluation of Performance And Emission Characteristics Of Biodiesel Derived from Diary Scum oil on a Computerized C.I Engine	Dr.TILAK .S.R	International Journal of Emerging Trends in Engineering and Development	2018	0	NO	1
Unique Analytical Modelling of Secure Communication in Wireless Sensor Network to Resist Maximum Threats	Manjunath B E, Dr. P V Rao	International Journal of Advanced Computer Science and Applications (IJACSA)	2019	0	NO	2
SEPD Technic for Removal of Salt and Pepper Noise in Digital images	Manjunath M, Venkatesha G, Dr.Dinesh S,	International research journal of Engineering and Technology(IRJET)	2019	0	YES	0
RF Hacking Detection Using Spectrum scanning	Manjunath M, Venkatesha G, Dr.Dinesh S,	Perspectives in Communication, Embedded systems and signal processing	2019	0	YES	0

		(PiCES)-				
Automatic Irrigation ,pesticide sprinkling and solar operated tractor	Manjunath M, Dr.Dinesh S,Venkatesha G	Journal of Advances in Communication Engineering and its innovations	2019	0	YES	0
QoS Oriented and Energy Efficient Routing Protocol for Cooperative MIMO Based Mobile WSN: Q-E2RPC	Kummathi Chenna Reddy, Geetha D Devanagavi	Journal of Engineering and Scientific Technical Review	2019	0	NO	3
CL-mWSNs: Cross Layer Model Based QoS Centric Routing Protocol for Mission-Critical Cooperative Communication in mobile-WSN	Kummathi Chenna Reddy, Geetha D Devanagavi	Journal of Telecommunications and Information Technology	2019	0	NO	0
AES Based Algorithm for Image Encryption and Decryption	Venkatesha G, Dr.Dinesh S, Manjunath M	Perspectives in Communication, Embedded systems and signal processing (PiCES)	2019	0	YES	5

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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
Unique Analytical Modelling	Manjunath B E, Dr. P	International Journal of	2019	1	2	NO

of Secure Communication in Wireless Sensor Network to Resist Maximum Threats	V Rao	Advanced Computer Science and Applications (IJACSA)				
QoS Oriented and Energy Efficient Routing Protocol for Cooperative MIMO Based Mobile WSN: Q-E2RPC	Kummathi Chenna Reddy, Geetha D Devanagavi	Journal of Engineering and Scientific Technical Review	2019	1	3	NO
CL-mWSNs: Cross Layer Model Based QoS Centric Routing Protocol for Mission-Critical Cooperative Communication in mobile-WSN	Kummathi Chenna Reddy, Geetha D Devanagavi	Journal of Telecommunications and Information Technology	2019	0	0	NO
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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	0	1	3	11
Presented papers	9	1	0	0
Resource persons	0	1	0	1
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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

World Environment Day-2k18 Theme: "Beat Plastic Pollution"	Brindavan College of Engineering	38	300
Walkathon - Poster Creation Competition - 2019	Brindavan College of Engineering	2	42
Essay Writing Competition on Road Safety	Brindavan College of Engineering	6	42
International Yoga Day	Brindavan College of Engineering	42	255
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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
Voluntary Blood Donation Camp	Appreciation Certificate	National Institute of Mental Health Neuro Sciences	61
View File			

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 participated in such activities	Number of students participated in such activities
NSS	Brindavan College of Engineering	Walkathon - Poster Creation Competition - 2019	2	42
NSS	Brindavan College of Engineering	Essay Writing Competition on Road Safety	6	42
NSS	Brindavan College of Engineering	International Yoga Day	42	255
Elizabeth Mayne Children's Home (Planet Hope)	Brindavan College of Engineering	Orphanage Visit	2	40
View File				

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
Dissertation	Students	The Kolar Chickballapura District	36

Cooperative Central
Bank Limited,
Kolar, Karnataka

[View File](#)

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
IC ENGINES	Two Days Work shop on "IC ENGINES OVERHAULING" (Hands on Experience)	AJ HEURISTIC	18/09/2018	19/09/2018	7th Semester Students

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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
Nextstep Logistics Management Private Limited, Bangalore	02/04/2019	Skill Development Training	50

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
30	13.98

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments	Newly Added

purchased (Greater than 1-0 lakh) during the current year	
Classrooms with Wi-Fi OR LAN	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
EASYLIB	Fully	6.2A	2014

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	13723	3000000	446	173216	14169	3173216
Reference Books	2500	700000	41	19000	2541	719000
Journals	151	248170	30	100000	181	348170
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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
NIL	NIL	NIL	31/07/2019
View File			

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	470	12	2	1	1	33	10	30	0
Added	34	2	0	0	0	7	0	0	0
Total	504	14	2	1	1	40	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
NIL	NIL

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
50	26.37	329	148.84

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, Principals of various institutions coming under the Brindavan group and Members nominated. The committee conducts meeting once in 3 months to discuss all the issues related to the functioning of the institution. The Principals of Engineering college and MBA/MCA will conduct meeting with their 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. Research is encouraged with students and faculty referring to other sources like reference books, e - books, journals and e - journals. The sports department 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, kabaddi, 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. Seminar halls provided are used to conduct seminars, placement talks, workshops, conferences, guest lectures and other activities.

<https://www.brindavancollege.com/Facilities.php>

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	Govt of Karnataka SC ST OBC MinoritiesT	498	14916690
Financial Support from Other Sources			
a) National	ICCR	21	2814000
b) International	Nil	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
Interview Skills	10/04/2019	50	Brindavan College of Engineering
C V Writing	04/03/2019	83	Brindavan College of Engineering
Time Management	28/02/2019	34	Brindavan College of Engineering
Communication Skills	03/03/2019	79	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
2018	NIL	0	0	0	0

[View File](#)

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

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
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
Kotak Mahindra	15	1	Mobinus, Samsung, Pathfront	63	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	ISE	Atria Institute of Technology	M. Tech

2019	1	BE	CSE	Atria Institute of Technology	M. Tech
2019	1	BE	ISE	SOUTU, New Delhi	MS
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	0
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Cultural - COLOSSUS/ ELCOTSAV	Institutional	410
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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	COLOSSUS- 2K19 DEBUGGING EVENT	National	Nil	1	1B015CS002	AHMED NOOR
2019	ELCOTSAV V.19 Talent Hunt	National	Nil	1	1B016EC059	PONNU KIRAN
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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)

Students are actively involved in the functioning of some important committees that look after the welfare of the students. The committees are as follows: 1. IQAC: The primary aim of IQAC is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution. It also promotes the measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practice. 2. Anti-Ragging Committee: Anti ragging committee representatives actively participate in maintaining a ragging free environment in the campus. The committee also takes instantaneous action to get rid of ragging. The committee is responsible for initiating disciplinary actions against any individual who is found to be involved in an act of ragging. Committee members physically go on rounds throughout the college campus twice a day to ensure no act of ragging takes place. 3. Sports Committee: This committee is responsible for conducting inter college and interdepartmental sporting events. 4. Cultural Committee: The committee is

responsible for conducting cultural events like Fresher's day, Departmental Events. 5. Students Counselling Committee: The committee provides counselling for students with respect to their studies as well as other problems the students are facing. 6. Grievance Redressal Cell : Student grievances with respect to tuition fee, discontinuation of education and other related problems are addressed. 7. Hostel Committee: This committee is headed by wardens of both the gents and ladies hostel. The committee monitors the functioning of the hostel and focuses on the welfare of the inmates.

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) :

15550

5.4.4 – Meetings/activities organized by Alumni Association :

Brindavan College of Engineering organized ALUMNI MEET 2019- a programme to facilitate, consolidate and coordinate Alumnus 16th March 2019. The alumni meet is to reconnect with the Alumni and celebrate their success and various achievements. The Alumni Meet started with a welcome address by the Principal Dr. B R Niranjan. Alumni interacted with the students and gave motivational talk regarding preparing for higher studies and placements. The Alumni thanked the management of Brindavan College of Engineering for inviting and their support and guidance which has made Alumni Meet 2019 a grand success.

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 of the management has been organized in the following ways. 1. Academic Council 2. Governing Council 3. IQAC 1. Academic Council comprises of all HODs and presided by the Principal. This Academic Council meets at least once in a month or as and when required as per academic needs. The academic council prepares the calendar of events in aid 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 Council also conducts Academic Audit. In academic audit the committee reviews the lesson planning, result analysis, proctor/mentor system, identification of slow learners, and arrangement of remedial classes. It also counsels the faculty members based on their performance. 2. Governing Council comprise of Principal, Management representatives and a nominee from VTU. The Council meets once in a year or when required to take important decisions in development of the Institutions. Governing Council assist in recruitment process and overall infrastructural development activities. It also takes inputs from IQAC. 3. IQAC comprises of selected members as per NAAC guidelines. The Committee meeting happens in 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)?

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Human Resource Management	<p>The HR department will look after the man power requirements of the Institution in the entire department.</p> <p>As per the requirements of the departments, advertisements are given in national level newspapers. The received applications are scrutinized by the HOD and Candidates will be shortlisted and will be called for interview. The interview processes includes Demo class and calculate score as prepared. Committee comprises of Principal, Head of the Department, Senior Expert Faculty and HR Director. The selected candidates gets offer letter in consultation with Chairman</p>
Research and Development	<p>Our College encourages research and development activities . Three research centres in Civil, Mechanical and MBA have been recognized by VTU. Students are registered for PhD programs under these research centers. 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.</p>
Teaching and Learning	<p>College receives calendar of Events from VTU. By referring the same, college prepares its own calendar of Events which includes number of Working days, holidays, internal assessments test dates and any other curricular and extracurricular activity. Each faculty member prepares his/her lesson planning by considering number of working days and available teaching hours. Most of the faculty members use ICT Teaching learning techniques. Usually the Faculty members are encouraged to attend FDPs, Workshops, conferences etc. To enrich their knowledge to deliver the lecture better. For laboratory classes, faculty will prepare lab manuals and then conduct the laboratory classes. Continuous</p>

Internal Evaluation is followed in theory and practicals. Assignments, quiz, seminar, mini projects whichever 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

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. Placement Officer interact with industries to arrange placement drives.

Curriculum Development

Our college is affiliated to the Visvesvaraiiah Technological University (VTU), Belgaum, and 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 is advised by the various faculty of the university. After review curriculum will be finalized

Examination and Evaluation

As per Visvesvaraya Technological university rules and regulations, examinations are conducted. Examinations and Evaluations contain two Phases. One CIE- Continuous Internal Evaluation and SEE - Semester Ending Evaluation. Continuations Internal Evaluation includes the written test along with Seminar/ Assignments/ quiz/ Mini projects etc. Semester Ending Examination has written examination for theory subjects and practical.

Library, ICT and Physical Infrastructure / Instrumentation

Library is equipped with 10000 volumes of textbooks and 1600 volumes

of reference books. This here additional 1000 textbooks have been added. We had 151 e-journals and another 30 e-journal have been added. We have Easy lib Library Management Software. We have digital library facilities with internet access and in the form of CDs. We are the members of DEL NET and VTU Consortium

Admission of Students

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, Convenor 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, Purchased and also through Digital marketing. The college also has an Admissions department with counsellors. 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 are 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 moulded 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 Self-analysis 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

The Architecture department is abundantly 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 quotas 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

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

E-governance 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 hassle free transaction which saves time and which consumes lethargic procedure to make the payment the lengthy paper follow-up Moreover the implementation of E Governance in areas of Finance operations is more effective which makes the Duties and levies to the Government from institutions in methodical way and hassle free without any paper work
Examination	VTU implement QPDS System for Semester Ending Examinations. QPDS works with VTU Server. Examination applications are filled online through VTU Web portal. Question paper indent is automatic as per the data generated by examination application forms. Question papers will be delivered online as per the schedule of examinations in supervision of confidential personnel. Examination attendance is generated online. CCTV camera suveyalance is mondatiory during examination.

Student Admission and Support	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.
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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
2018	Harshavardhan A C	FDP ON SOFTWARE APPLICATION LAB FDP-SAL 2018	NOT APPLICABLE	3000
2018	Poornima	SKILL DEVELOPMENT TRAINING PROGRAM ON COMPUTER AIDED ANALYSIS AND DESIGN OF STRUC TURES (CAADS-18)	NOT APPLICABLE	3000
2018	Chenna reddy K	ICWSNUCA-2018	NOT APPLICABLE	4000

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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)
2018	WORKSHOP ON DESIGN DETAILING OF RC STEEL STRUCTURES	NOT APPLICABLE	13/08/2018	14/08/2018	19	Nil
2018	NOT APPLICABLE	Orientat ion on usage of OPTRA Software Activity	20/08/2018	21/08/2018	Nil	15

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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
Faculty Development Programme on "ADVANCED INDUSTRIAL AUTOMATION AND DRIVES CONTROL	24	04/02/2019	08/02/2019	5
Workshop on MICROSOFT ROBOTICS IOTS	20	25/04/2019	28/04/2019	4

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	19	0	33

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Providing Financial assistance to teaching staff for seminar/ FDP/ Workshop	Providing Financial assistance to Non Teaching staff for attending skill oriented activities.	State and Central Government Scholarship along with other schemes.

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
Management	10000	FDP/Seminar/Conference/ Worksop

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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	Null	Yes	IQAC
Administrative	No	Null	Yes	IQAC

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

1. Parents attend Parent Teacher meeting and give suggestions for improvement 2. Parents actively participate in the progression of their children by enquiring about them through their mentors 3. If called by teachers or principal for a discussion about a specific child or a specific problem parents have never shied away from their duty.

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

1. one day workshop on best practices in office administration 2. one day workshop on soft skill development for capacity enhancement of non teaching staff 3. one day workshop on communication skill for non-teaching staff

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

1. Enhancement towards teaching learning process by implementing ICT technology. 2. Improvement in IT facilities. 3. Improvement in academic infrastructure.

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	Workshop on MICROSOFT ROBOTICS IOTS	25/04/2019	25/04/2019	28/04/2019	20
2019	Faculty Development Programme on "ADVANCED INDUSTRIAL AUTOMATION AND DRIVES CONTROL	04/02/2019	04/02/2019	08/02/2019	24
2019	Two days programme on basic computer	07/03/2019	07/03/2019	08/03/2019	10

training for Non-Teaching Staff				
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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
Monthly lecturer on sanitation awareness	01/03/2019	01/03/2019	75	0
International Women Day Celebration	08/03/2019	08/03/2019	88	10
Self Defence Workshop for Women	18/03/2019	18/03/2019	89	15

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

Brindavan College of Engineering is concerned on ecological and environmental issues for a clean, healthy and hygiene campus. The Institute creates ecological awareness among the stakeholders. The staff and students are proactive in protecting the green cover and cognizant for cleanliness. The institute adopts energy conservation practices, tree plantations and effective waste management for making the campus green. Steps taken to maintain the green campus:

- Initiatives have been taken for LED bulb replacements.
- The Campus Maintenance Department is instructed to use light fixtures with power saving techniques like CFL, LED bulbs etc.
- Students are advised to avoid utilization of polythene and make the campus plastic free.
- The Institute has garden with an assortment of ornamental shrubs, hedges and avenue trees.
- The campus is been declared smoke free zone and drug free zone.
- UPS batteries are serviced regularly.

Different measures have been embraced by the Institution to guarantee that the organization is heading towards its objective of turning into an eco- accommodating space. The measures taken are: Energy conservation

- 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 electrical and electronic equipment utilized in the campus are consistently serviced to guarantee minimum energy waste.
- Energy conserving lights like CFL and LED are used in the campus.
- 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.
- LED monitors are used.
- 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 has adopted

renewable energy as an alternative form for more than a decade. Solar panels are installed on the hostel terrace. The total capacity is 15000 litres per year 129 k watts of power consumption can be saved. Water Conservation-Rain Water Harvesting Rain Water harvesting is been practised by the Institute. A Total roof area of 1530.65Sq.m is used to collect rainfall which collects an average of 1198000 Litres of water.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	200
Ramp/Rails	Yes	0
Rest Rooms	Yes	0
Scribes for examination	Yes	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
2018	Nil	1	30/08/2018	1	ISR Program	Blood Donation Camp	61
2019	1	Nil	01/01/2019	1	Sanitation Awareness	Local Advantage	145
2019	1	Nil	30/01/2019	1	Importance of self-sustainability in water and energy and importance of solid waste management	Local advantages	60

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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)
Student Orientation program	16/08/2018	The First year Student Induction Program held at Brindavan College of Engineering, Bangalore, on 16 August to 08 September 2018. The program aims to guide the

students about the curriculum, familiarization of examination patterns, to train graduates in their respective branch of study, improve the communications Skills, Knowledge in the area of study and a holistic outlook towards life, desire to work for national needs and beyond. Yoga and meditation improves balance, endurance and keep the mind sharp and processes positive coping skills.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence day	15/08/2018	15/08/2018	150
Engineers day	15/09/2018	15/09/2018	122

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

1.E-waste Management 2. Swachh Bharat 3. Plastic free campus 4. Plantation 5. Hazardous waste management

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

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.

Suggestions from students are considered for the betterment of facilities been provided. **The Practice:** The feedback is taken once in a semester, various faculties are assigned to coordinate. This system contains a central feedback coordinator and also coordinators at department level for the smooth conduction of activity. Feedback contains questionnaires, 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. The proctor is a teacher to whom particular numbers of students are allocated. **Role of the proctor:**

- The proctor shall advise/counsel the students on all the academic matters.
- Faculty must meet the assigned students at least once in every fortnight and understand student difficulties and counsel as per individual situations.
- Ensure 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. Every 15 students are assigned a proctor in the department,

For each 15 students there will be a mentor dispensed from the employees, whose duty is to meet each student periodically and check his/her advancement and take input from the student with respect to the academics and all other criteria's of the institute. In the wake of finding the individual students advancement it's the mentor's duty to hint the concerned authorities like HOD, principal and parents about the students concerns. This feedback provides appropriate guidance for improvement. Hence this encourages students to give free and fair feedback. Evidence of Success: • The feedback report helps the faculties about the areas of improvement and deliberately makes effort for the same. • The Institution has enabled Wi-Fi service. • Parents will get to know the students' performance Problems Encountered and Resources Required: There were initial problems to contact parents at remote places and get their contact details. Resources required for feedback were Contacts, identifying feedback evaluation team. One challenge was identifying faculty compatibility BEST PRACTICES- 2 Title of the Practice: Civic Responsibilities Objective of the Practice: Brindavan College of Engineering has taken many extension activities based on the social and environmental issues in the society to create sense of responsibility in every individual. 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 motivates and encourages in various activities like • Field work • Participation in Walkathon (Traffic awareness). • Campus Cleaning and Beautification of College. The institute also extends its hands by involving in different social mindfulness programs as recorded: Social awareness programs • Institute has conducted plantations in campus. • Swacch Campus was organized by the Institute, under this various activities related to cleanliness were performed. • Through Monthly lecture series awareness on various fields such as sanitation, importance of waste management etc. is been given. • Sri Thimshetty Sub-Inspector, Traffic Training Road Safety Institute - Bengaluru Traffic Police, addressed the student's regarding the Traffics rules and regulation. The safety measures were discussed. • Blood Donation Camp was organized. Evidence of success: • 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. Problems Encountered and Resources Required: The financial resources are always needed to secure success in organizing these programs. The coordination from external agencies is required to put theory in practice. Maintaining the motivation level in voluntary work and ensuring the wholehearted involvement of volunteers in all the activities was also a problem which requires careful supervision.

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

<http://www.brindavancollege.com/AQAR18-19/2018-19BESTPRACTICE.pdf>

7.3 – Institutional Distinctiveness

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

Brindavan College of Engineering inculcates Teaching Learning process and active participation in Research Development. Institute conducts Teaching - Learning procedure in systematic and takes keen interest in improving knowledge and skills of the students and faculty members. To fill the gap between the university syllabus and industry requirement, expert lectures are carried by Academicians and Experts from industries for students to upgrade their technical skills. Required number of PhD holders has been recruited in every department. Faculty members are actively involved in research activities and

presentation of research papers. Research articles are published by faculties in all departments in National/ International Journals. Faculties are been encouraged and granted special leaves to attend FDP's, workshops and conferences. Each department is been motivated and funded to organize National Conference and Tech-Fest every year. By clearly understanding the diversity of learners with respect to their background, abilities and other personal attributes, the Institution has taken enough measures and integrated them in the teaching - learning process to achieve the desired learning outcomes.

Teaching is made student-centric and individual attention is given. The Institute has the systematic mentoring system, through which we can monitor each student's performance closely. For every 15 students one mentor is been allotted who councils the student periodically. 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. The

Institute has Digital library with 30 computers and internet facility.

Brindavan College of Engineering conduct Placement Training. This provides information of job opportunities to students and also works as information centre for various employment opportunities. The Institute conducts workshops, seminars on communication skills, pre-placement training and group discussions for the benefit of students in attending interviews. Industry Academia interfaces and has MOU's with companies to bridge the gap between academia and industry.

Provide the weblink of the institution

<http://www.brindavancollege.com/AOAR18-19/2018-19INSTITUTIONALDISTINCTIVENESS.pdf>

8.Future Plans of Actions for Next Academic Year

By reviewing all the academic, administrative, co-curricular and extracurricular activities for the academic year 2017-2018, the quality initiative programs for further developments are as follows: 1. Registration of Alumni Association: In order to improve Industry-Institute-Interactions and placement activities, it is decided to involve Alumni. Registration of Alumni Association has been emphasized. 2. Monthly lectures: As a part of learning and outreach activity it is decided to conduct monthly lectures in the campus. The resource persons are invited from various organization. 3. Much more Emphasis on ICT Teaching - Learning: In order to ensure the quality in teaching learning process, suggestions have been given to the management to depute faculty members to attend Faculty Development Program based on ICT learning. Also, suggested to improve the number class rooms with ICT facilities. Registration of faculty members to MOOC Courses has been emphasized. 4. More Hands on Workshops: To conduct hands on workshops on beyond the syllabus or on elective subjects offered to prepare the students for industry ready. 5. Student satisfactory survey , Employers feedback have to be extended to get more insights in development activities