Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**BVRIT HYDERABAD College of Engineering for Women**
Name of the head of the Institution	**Dr. K V N Sunitha**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**040-42417773**
Mobile no.	**9949402211**
Registered Email	**principal@bvrithyderabad.edu.in**
Alternate Email	**k.v.n.sunitha@gmail.com**
Address	**8-5/4, Rajeev Gandhi Nagar, Nizampet Road, Bachupally**
City/Town	**HYDERABAD**
State/UT	**Telangana**
Pincode	**500090**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Women**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr J Naga Vishnu Vardhan**
Phone no/Alternate Phone no.	**04042417773**
Mobile no.	**9848805545**
Registered Email	**vishnu.j@bvrithyderabad.edu.in**
Alternate Email	**jnvvardhan@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://bvrithyderabad.edu.in/naac/

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://bvrithyderabad.edu.in/wp-content/uploads/2021/08/College-Academic-Calendar-2019-20.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.23**	**2020**	**14-Feb-2020**	**13-Feb-2025**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**01-Dec-2018**

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
The Role of AI and ML in	**29-Oct-2019**	**47**

the Development of Society	1	
Student Solar Ambassador Workshop 2019 - Hands on training to assemble solar study lamps	02-Oct-2019 1	450
Two Day Workshop on Internet of Things using TIVA C launch pad (For Students)	27-Dec-2019 2	66
Two Day Workshop on Ethical Hacking & Cyber Security (Students)	18-Sep-2019 2	55
Two-day workshop on Research Methodology in Research and Publication Ethics	28-May-2020 2	56
One-week FDP on AI	22-May-2020 5	1382
One week FDP on Possessing the Two Wardrobes: Communication & Writing	25-May-2020 5	300
Three Day FDP on Machine Learning & Its applications	28-Sep-2019 3	38
Three Day FDP on Professional Etiquette & Emotional Intelligence	08-Jul-2019 3	46
One Week FDP on Advanced Data Science and its Applications	22-Jun-2020 5	1330

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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
Dr Swathi Reddy, ECE	SERB	DST	2020 730	1830400
Ms. Radha Abburi, ECE	TEQIP-III	JNTUH	2019 365	299600
Dr V Madhavi, Chemistry, BSH	TEQIP-III	JNTUH	2019 365	250000
Ms. A. Ramya, Mechanical, BSH	TEQIP-III	JNTUH	2019 365	250000

9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View Link
10. Number of IQAC meetings held during the year :	**2**
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 Uploaded 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)

BVRIT HYDERABAD College of Engineering for Women was accredited by NAAC in February 2020 with Grade A (3.23 out of 4)

BVRIT HYDERABAD College of Engineering for Women was ranked 199 in NIRF 2020

BVRIT HYDERABAD College of Engineering for Women was ranked in Band "B" (Rank 26th to 50th) in ARIIA - 2020 for its Innovation Activities

BVRIT HYDERABAD College of Engineering for Women established Institution Innovation Council (IIC) in 2019 and rated 4.5 out of 5 star in IIC 2.0 for the year 2019-20

BVRIT HYDERABAD College of Engineering for Women increased intake in both CSE and IT programs by one section each

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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
Certifications by faculty and Students	**Every faculty member and most of the students completed certifications in their area of interest or in interdisciplinary on various platforms like Coursera, Udemy, NPTEL to enhance**

	their skill
Diagnostics Test for I Year Students	Successfully conducted, analyzed and appropriate action was taken based on the performance in the test
Establishment of Institution Innovation Council	BVRITH IIC got four point five out of five for the activities conducted
Research	Faculty received four funded projects from DST SERB and TEQIPIII worth around twenty seven lakhs. Published Forty Nine Papers in Scopus and Ten in Web of Science. Initiated patent publishing, published two patents and more are in the pipeline to publish
Improvement in Placements	Very good Improvement in number of interns, unique offers, total offers, offers with above five lakh package and average salary. The highest package being thirty lakhs in Amazon
[View Uploaded File](#)	

14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Governing Body Meeting	27-Dec-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	06-Feb-2020
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	2020
Date of Submission	13-Mar-2020
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Planning and Development Through Engineering College Automation Package (ECAP), academic planning is made available through the academic calendar, course allocation, class timetables, lesson plans, lecturer diaries, etc., The content developed by the faculty members is made available

to the students through LMS portal "bvrithvidya.in". This portal is also used to assess the students' understanding and learning. Administration The ECAP is used for Biometric Attendance System (BAS), Leave Management System, Library Management System, Student fee payment. Purchases, Inventories, Stock maintenance, Salaries of the staff members, etc., are maintained using PACT ERP. Finance The ECAP is used for online fee payment by the students. The PACT ERP is used to maintain all the accounts, payments, advances, receipts, fee receipts, fee dues, etc., Student Admission and Support The ECAP is used for maintenance of admission of the students. The students can pay their fees, view their attendance marks, library books availability, counselling remarks, etc., The students can also give feedback on teaching learning, facilities, course outcomes and also can express their grievances. The online course content is updated every semester and is made available on LMS. They can also selfassess their learning through the unitwise quizzes. Old question papers, GATE question papers, placement related information, testimonials of the seniors, etc., are made available to the students. Examination egovernance of examinations is done using the below: ? Engineering College Automation Package (ECAP) ? JNTUH University portals The following works are maintained using ECAP: • Regular Exam Fee Payment • View of Student Internal and External Marks • Semester End Exam Results JNTUH Portals 1) EDEP Portal (exams.jntuh.ac.in) • Notifications, Time table, Academic information, External Question Paper, Password for Decrypting Question paper, Result TSheets are available in the portal. 2) Registrations Portal is used for: • Uploading Student Profile and Fortnight Attendance, • Registration for End Exam/Recounting/Revaluation. • Uploading Mid marks, Internal Lab marks, External lab, project marks, End Exams DForms (Attendance). • End exam Hall Tickets, List of students either Detained or under Condonation are displayed.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

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

The curriculum prescribed by the affiliated university is followed. The college has designed different ways and means to reinforce the teaching-learning process. The curricular planning and implementation is performed in a systematic way by Department Academic Committees as: Preparation of Academic Calendar: At the beginning of each academic year, each department prepares academic calendar incorporating curricular, co-curricular and extra-curricular events in alignment with the college academic calendar. Library Upgradation: The library is informed about the required text books, reference books and e-journals for the forthcoming academic year. Course Allocation: Courses are allocated to the faculty members based on their preferences by the course allocation committee and approved by department academic committee. Timetable Preparation: Time tables for class-wise, also includes Value-Added Programs, Seminars, counseling sessions, club activities, library and sports. Time tables for lab-wise are prepared incorporating individual lab courses. Individual time tables are prepared for each faculty member reflecting the work load. All these time tables are prepared by Time Table Committee. Design and Dissemination of Course Plan: Each faculty member prepares detailed course plan including the text book(s), reference book(s), web resource(s) and ICT tool(s) to be used for each topic. It also includes the topics to be covered beyond the curriculum which is then disseminated to the concerned students after approval. Preparation of Course file: Each faculty member prepares the course file by including the time table, course plan, course outcomes, mapping of course outcomes with program outcomes & program specific outcomes, attainment levels and targets, identified curriculum gaps, corrective actions, materials module-wise, handouts, previous question papers and previous performances.After the semester, it is updated with analysis of students' feedback, attainment of COs, POs & PSOs and Justifications for nonattainment of COs, POs and PSOs. The content is made available on "bvrithvidya.in" for the students. Content Delivery: New and innovative teaching techniques, in addition to the traditional lecture method are adopted to deliver the content. Employing of learner-centric techniques such as peer learning, collaborative learning, group discussion, video lectures, chart preparation, role play, quiz etc., encourages students' active participation. Reviews: Periodical review on the coverage of syllabus and regularity of the students is performed by the Head of the department. The class review committee, consisting of Head of the Department, concerned faculty members and six student representatives, reviews the coverage of syllabus and suggestions are invited for the improvement of teaching-learning process. Assessments: As per the regulations of the affiliated university, the assessment is in two ways: 1. Internal Assessment (25 Marks): There are two internal assessment tests, the first one after eight weeks of the commencement of the semester and the second at the end of the classwork, i.e., after sixteen weeks. The internal assessment includes descriptive test for 10 Marks, objective test for 10 Marks and assignment for 5 Marks. The descriptive and assignment papers are designed by including the concerned course outcomes and bloom's levels. 2. External Assessment (75 Marks): The external assessment is based on the semester end examinations conducted by the university.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development

Coursera Courses	Nil	01/07/2019	30	Focus on employability	Skill Development
Edx Courses	Nil	01/07/2019	30	Focus on employability	Skill Development
NPTEL Courses	Nil	01/07/2019	30	Focus on employability	Skill Development
Women In Software Engineering(WISE)	Nil	01/07/2019	193	Focus on employability	Skill Development
Flipkart Mentorship (GWC)	Nil	25/01/2020	60	Focus on employability	Skill Development
Amazon Mentorship(ACMS)	Nil	02/12/2019	112	Focus on employability	Skill Development
NASSCOM Future skills	Nil	01/07/2019	365	Focus on employability	Skill Development
NASSCOM SSC	Nil	01/07/2019	112	Focus on employability	Skill Development
Cloud computing Workshop	Nil	19/11/2019	1	Focus on employability	Skill Development
ethical hacking and cyber security	Nil	18/09/2019	2	Focus on employability	Skill Development
Role of Artificial Intelligence and Machine Learning in the development of Society	Nil	29/10/2019	1	Focus on employability	Skill Development
Cyber Security and Ethical Hacking	Nil	06/01/2020	2	Focus on employability	Skill Development
Machine Learning Concepts	Nil	17/08/2019	1	Focus on employability	Skill Development
Fun with Electronics -3 Day Boot Camp	Nil	28/05/2020	3	Focus on employability	Skill Development
Internet of Things(IOT) using TIVA C Launchpad	Nil	27/12/2019	2	Focus on employability	Skill Development

AI and Speech Applications	Nil	17/08/2019	1	Focus on employability	Skill Development
VLSI Design using Verilog HDL	Nil	25/09/2019	1	Focus on employability	Skill Development
Technical talk on 'THE ROLE OF GIS IN DISASTER MANAGEMENT IN THE PRESENT DAY SCENARIO'	Nil	24/07/2019	1	Focus on employability	Skill Development
Guest Lecture on Alexa Skills	Nil	20/01/2020	1	Focus on employability	Skill Development
Guest Lecture on Data Science	Nil	09/11/2019	1	Focus on employability	Skill Development
Workshop on Android Programming	Nil	21/09/2019	3	Focus on employability	Skill Development
Test Your Skills in Machine Learning with with Python	Nil	15/06/2020	4	Focus on employability	Skill Development
Free Open Source Software and GITHUB	Nil	01/08/2019	1	Focus on employability	Skill Development
Intellectual Property and Innovation Management for Start-ups MSMES	Nil	15/06/2020	1	Entrepreneurship	Skill Development
A National Level Awareness Programme of MSME	Nil	26/02/2020	1	Entrepreneurship	Skill Development
A One day workshop on "Problem Identification and Validation"	Nil	29/10/2019	1	Entrepreneurship	Skill Development
Competitive	Nil	01/07/2019	82	Focus on employability	Skill Development

| coding by Being Zero Competitive coding by Smart Interviews | Nil | 01/07/2019 | 78 | Focus on e mployability | Skill Development |

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
BTech	Electrical and Electronics Engineering(Power Semiconductor Drives)	15/07/2019
BTech	Electronics and Communication Engineering(Microwave Engineering)	15/07/2019
BTech	Computer Science and Engineering(Data Mining)	15/07/2019
BTech	Information Technology(Android Application Development)	15/07/2019
BTech	Electrical and Electronics Engineering(Linux Programming)	16/12/2019
BTech	Electronics and Communication Engineering(R Programming)	16/12/2019
BTech	Computer Science and Engineering(Entrepreneur Resource Planning)	16/12/2019
BTech	Information Technology(Steganography and Watermarking)	16/12/2019
BTech	Computer Science and Engineering(Real-Time Systems)	16/12/2019
BTech	Electronics and Communication Engineering(Coding Theory and Techniques)	15/07/2019
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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

BTech	Electrical and Electronics Engineering	15/07/2019
BTech	Electronics and Communication Engineering	15/07/2019
BTech	Computer Science and Engineering	15/07/2019
BTech	Information Technology	15/07/2019

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

	Certificate	Diploma Course
Number of Students	1658	Nil

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
BEC (Business English Certificate-Preliminary)	16/12/2019	51
German language course	27/09/2019	20
French language course	27/09/2019	27
Yoga	06/09/2019	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
BTech	Electrical and Electronics Engineering	78
BTech	Electronics and Communication Engineering	158
BTech	Computer Science and Engineering	165
BTech	Information Technology	69
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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 collection of feedback regularly from the stakeholders is a practice in our college. The stakeholders involved are: Students Parents Alumni Teachers

Employers Students Feedback: The feedback from the students is collected in various ways: a> Twice in a semester regarding teaching-learning process. Once on the attainment of COs through online process. b> During Class Review Committee Meetings, conducted twice before each mid-term examination. c> Every fortnight/month, the concerned HoD and class teacher will meet the students in their classroom to collect the oral feedback on their learning comfortability, further support from the department and the improvements to be made. The feedback collected is immediately analyzed, the necessary actions will be identified and initiated. Parents Feedback: The feedback from the parents is collected during parents-teacher meetings (PTM) and during their visits to the college to know the progress of their wards. Based on the requirements and comments from the parents, the steps to be taken are identified and implemented. Alumni Feedback: The feedback is collected during the alumni meetings and also during their visits to the college. This feedback will be used to understand the gaps between the curriculum and the industrial needs. The gaps will be filled through guest lectures, workshops, industry visits and WISE. Teachers' Feedback: The feedback from teachers is collected on teaching learning process, availability of academic resources, research, infrastructure, environment in class rooms during CRC meetings and DAC meeting. This feedback will be used to plan various faculty development programs to upskill the faculty and provide ambience to accommodate learning needs. Employers' Feedback: The feedback is collected from employers on the performance of the students in the recruitment process, the areas to be upskilled and the performance of the alumni. This feedback will be helpful to plan the preventive and corrective measures by conducting more internal/external trainings to inculcate communication skills, coding skills, analytical skills, cultural adaptability, leadership skills for all-round development of 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
BTech	Information Technology	36	418	36
BTech	Computer Science and Engineering	54	622	54
BTech	Electronics and Communication Engineering	36	426	36
BTech	Electrical and Electronics Engineering	18	195	13
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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	Number of fulltime teachers available in the institution teaching only PG	Number of teachers teaching both UG and PG courses

			courses	courses	
2019	1658	Nill	112	Nill	Nill

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	Numberof smart classrooms	E-resources and techniques used
112	112	Nill	24	2	Nill
[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)

The institute adopted a well defined mentoring process where each faculty mentor is assigned with a maximum of 20 students. Through personal interaction, faculty mentors understand each student's need, expectations and difficulties that they undergo to counsel them accordingly. A counseling book for each individual student is maintained to record the details such as attendance, marks, events that they participated, etc., along with mentor remarks. Besides this, various individual, group counseling sessions, workshops and awareness programs are being conducted by a professional psychologist within the campus for personal grooming. The majority of students admitted in first year are good rankers in TSEAMCET. A well planned orientation program is conducted to motivate them and familiarize them with the university curriculum and the resources available at the institute. The diploma students, admitted directly into second year through lateral entry are usually lacking in communication and computation skills. So, bridge courses on Mathematics, English and C programming are conducted to enhance their skills. The slow and advanced learners are identified course wise based on their performance in internal examination of that course. Initiatives for Assisting the Slow learners • Tutorial/Remedial classes are conducted for some of the courses based on the requirement. • Parent Teacher Meetings are conducted periodically to have interaction between faculty members and the parents to discuss about the progress of their wards and actions to be initiated, if any. • Counseling with mentors and the professional counselor is arranged. • Group activities are conducted in class rooms to improve their understanding. • During project work, they are teamed with advanced learners for enabling the peer learning. Initiatives for motivating advanced learners • The advanced learners have a plethora of sources at the institute to explore their knowledge such as Project Lab, Assistive Technology Lab, IoT Maker's space, etc. • Some of the labs are provided with advanced resources available, and are available even after the class hours to do research or projects. • The students having orientation towards research are supported by faculty members to conduct their research in right direction and publish their work in National/International Conferences/Journals. • The students are encouraged to do online certification courses like SWAYAM, MOOCs, Coursera, edX, etc. • They are motivated and supported to attend conferences, workshops, project expos, hackathons and other prestigious competitions like Smart India Hackathon, World Skill Competition, GSoC, etc. Various incentive schemes are provided by the institute to encourage the student performers in different competitions. Besides all these activities, there will be dynamic assignment of mentors for the students, who are • Working on an idea • Preparing for placements • Participating in reputed hackathons, etc. for close monitoring. Some special sessions are conducted by Vishnu Educational Development and Innovation Centre (VEDIC) on need basis to motivate students in different aspects. For example, in this pandemic, VEDIC conducted a workshop on "Self Management Skills" for all the students.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1658	112	1:15

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D

112	112	0	15	29

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.K.V.N.Sunitha	Principal	Best Engineering College Principal Award for 2019 from ISTE Telangana.
2019	Mr. R Guruswamy	Associate Professor	"Adarsh Acharya Puraskar", A National award for Impact Creators in Engineering Education
2019	Mr K Rajesh	Assistant Professor	Qualified UGC-NET for Assistant Professor.
2020	Dr.C.Nageswarnaath	Associate Professor	Outstanding Researcher Award at 4th International Conference on Interdisciplinary Research for substantial development held at Confederation of Indian Industry, Chandigarh, India on 10th January 2020
2020	Ms. Siva S Sinthura	Assistant Professor	Best Paper award in ICRETM 2020
2020	Dr. M. Parvathi	Professor	Reviewer-IEEE Transactions on Circuits and Systems II: Express Briefs
[View Uploaded File](#)			

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
BTech	EEE	I-I	06/01/2020	03/03/2020
BTech	ECE	II-I	12/12/2019	16/02/2020
BTech	CSE	III-I	11/12/2019	15/02/2020

BTech	IT	IV-II	20/09/2020	01/11/2020

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

BVRIT HYDERABAD College of Engineering for Women is affiliated to JNTUH, Hyderabad. Hence, the evaluation process is as per the regulations of the university. The evaluation process comprises of two components viz. internal evaluation and external evaluation. Internal evaluation is taken care by the institute with defined guidelines by the university and External evaluation is done by the university. For theoretical courses there will be two internal evaluations for half of the syllabus in each. For practical courses, there will be continuous internal evaluation by the concerned faculty. Seminar and Project courses are evaluated internally by the committees following the well defined rubrics. Besides following the guidelines of the affiliating university, the internal evaluation is a continuous process in the institute. Faculty members regularly conduct quizzes, seminars and group activities to evaluate the performance of the students. Due to pandemic, the students are evaluated online internally for the II semester of the academic year 2019-20. The institute got an opportunity to follow its own method of conducting examination. So, the method adopted is described as follows: • There will be 25 multiple choice questions for 25 marks • Question paper is created in moodle platform and shared with the students at the scheduled time • The students are divided into groups of 15 to 20 students in each group • For each group one invigilator is assigned to monitor through Google meet. • All the students must switch on the video till the examination is over.

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

The affiliating university sends an academic calendar before the start of every academic year. This calendar has the details of start and end dates of both even and odd semesters, dates of internal examinations and other major events. The College Academic Committee (CAC) prepares a calendar with the details of proposed dates of institute level technical and non-technical events in line with the university academic calendar. Each department prepares a department specific academic calendar year wise in line with JNTUH academic calendar and college calendar of events. All the tentatively scheduled technical and non-technical events planned by the department are also included. The institute adheres to the academic calendar for the conduct of continuous internal evaluation. All the affiliated institutes of JNTUH should conduct two internal examinations as scheduled by the university for half of the syllabus in each examination. The academic calendar is available on college website and displayed on notice-boards in the respective departments. The institute follows the time frame given by the university to conduct internal examinations, evaluation of answer scripts and submission of marks to the university. In the academic year 2019-20, all the departments have prepared academic calendars in the defined procedure and adhered to it until the disturbance caused by the pandemic. Due to pandemic, the affiliating university dynamically changed the scheduled for laboratory classes, internal examinations, external examinations, etc. The institute shared the information provided by the university to students and followed the schedule time to time.

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://bvrithyderabad.edu.in/wp-content/uploads/2021/08/Write_UPs-and-Links1.pdf

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
A02	BTech	Electrical and Electronics Engineering	69	65	94.20%
A04	BTech	Electronics and Communication Engineering	138	130	94.20%
A05	BTech	Computer Science and Engineering	121	115	95.04%
A12	BTech	Information Technology	60	58	96.67%
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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://bvrithyderabad.edu.in/wp-content/uploads/2021/08/Student-Satisfaction-Survey-2019-20-.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
Projects sponsored by the University	365	JNTUH-TEQIP-III	2.99	2.99
Industry sponsored Projects	180	Gorinta Hotels Private Limited	3.5	3.5
Any Other (Specify)	730	DST	18.3	12.2
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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
International Online workshop on Industrial	EEE	15/06/2020

Relevance of Electrical Engineering (FDP)		
Two Day Workshop on Future of Drones - The Prototype model Making Live Streaming	EEE	20/09/2019
Two Day Workshop on Internet of Things (IoT) using TIVA C Launch pad and CC3100 Bxl	ECE	27/12/2019
Two Day Workshop on Ethical Hacking and Cyber Security	ECE	06/01/2020
Seminar on The role of GIS in Disaster Management in the present day scenario	ECE	24/07/2019
Seminar on Machine Learning Concepts	ECE	17/08/2019
Seminar on VLSI Design using Verilog HDL	ECE	25/09/2019
A National Level Awareness Programme of MSME	EDC	26/02/2020
Intellectual Property and Innovation Management for Start-ups amp MSMEs	RnD	15/06/2020
One week FDP on Advanced Data Science and Its Applications	CSE,IT	22/06/2020
A one day Seminar on NoSql Databases	CSE,IT	07/03/2020
A one day workshop on Learn to build Alexa skills	CSE, IT	04/01/2020
A one day workshop on Cloud Computing	CSE, IT	19/11/2019
A one day workshop on Data Science	CSE, IT	09/11/2019
A one day workshop on Flow Inside Tensor Flow	CSE, IT	02/11/2019
A two day workshop on Ethical Hacking and Cyber Security	CSE, IT	18/09/2019
A one day workshop on Open Source Software and GITHUB	CSE, IT	01/08/2019
Five day faculty workshop (FDP) on Artificial Intelligence	CSE, IT	22/05/2020

Two day workshop on Interactive Ethical Hacking	CSE, IT	26/02/2020
Three day Workshop on Critical Thinking and Problem Solving	CSE, IT	14/02/2020
Four day workshop on Android Master Class	CSE, IT	20/09/2019
Oneday workshop on Entrepreneurship and Innovation as career Opportunity	IIC	25/09/2019
Hangout with Successful Startups	IIC	12/03/2020
How to plan for start up and legal and Ethical Steps	IIC	26/02/2020

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
Anegoo	Ms.C.Jahnavi Sai Sirisha	GE Health Care	28/01/2020	Best Idea - GE Precision Health challenge 2020
Soil Nutrient Survey and Google Map Cartography	Ms. K. Bhavya Sri	AnithaB.org, India	08/11/2019	Esteemed Speaker - GHCI 19

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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
0	NA	NA	NA	NA	Nill

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
2	15	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
NA	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	CSE	27	0.33
International	BSH	5	Nill

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
ECE	7
BSH	7

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
A brief Study on Implementation of Transformers for Track Electrification	Dr.V.Rajeswari	Australian Journal of Electrical Electronics Engineering	2019	0	BVRIT HYDERABAD College of Engineering, Hyderabad	0
A Survey On Fake News Detection In Social Media Using Deep Neural Networks	Dr.L.Lakshmi	International Journal Of Scientific Technology Research	2020	2	BVRIT HYDERABAD College of Engineering, Hyderabad	0

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
Optimal Protection Coordination of over current Relays in DG System with Solid State Fault Current Limiters	Mr.G.Sandeep	Journal of TEST Engineering Management	2020	5	0	Research Scholar, JNTUK, Kakinada
Novel Random Split	Dr.K.V.N.Sunitha	EAI Endorsed Transaction	2020	5	0	BVRIT HYDERABAD College of

Point Procedure Using Extremely Randomized (Extra) Trees Ensemble Method for Human Activity Recognitio		s on Pervasive Health and Technology					Engineering for Women

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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	29	88	13	77
Presented papers	21	2	3	Nill
Resource persons	Nill	3	1	Nill

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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
Tide Turners Plastic Challenge -Level -1	NSS-BVRITH in association with WWF India	6	487
National Voters Day Celebrations	NSS-BVRITH in association with CEO telangana	12	282

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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
Swatchtha Action Plan	Reconistion from MGNCRE ,MHRD Swatchtha Action Plan Institute	MGNCRE, MHRD	36
31st National Road Safety Week- Indian Road Safety Campaign	Appreciation from MORTH,Government of India	MORTH, Government of India	217

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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/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swachh Bharat	NSS-BVRITH in association with Indian Bank	Envision for a plastic free Nation Awareness program on single use plastic by INDIAN BANK staff .	5	108
National Policy	NSS-BVRITH	Rashtriya Ekta Diwas (National Unity Day)	27	245
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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
Research	Ms.A.Radha	JNTUH-TEQIP-III	365
Faculty Exchange	Dr K Adi Narayana Reddy	TalentSprint	180
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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
Industry Institue Collaboration	Mentorship	Qualcomm, S.Sudhir Kumar, Senior Staff / Manager, QCares	01/02/2020	14/03/2020	64
Industry Institute Collaboration	Internship	Sion Semiconductors Pvt Ltd , Shaestha Shamrin B, Director	20/12/2019	20/06/2020	5
Industry Institue Collaboration	Mentorship	Flipkart,Nishith, 91 94906 08898	25/01/2020	18/02/2020	62

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
Association of Lady Entrepreneurs of India	24/12/2019	Student startupcounselling, Interning opportunities, Entrepreneurship development	30
Alliance Francaise of Hyderabad	01/09/2019	Training on French Language	27

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
1300	1250.68

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Newly Added
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Classrooms with Wi-Fi OR LAN	Existing

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
ECAP	Partially	2	2012

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	16538	5483862	1049	574658	17587	6058520
Reference Books	2504	784135	107	72863	2611	856998
e-Books	10307	Nill	542	Nill	10849	Nill
Journals	60	150498	24	48781	84	199279
e-Journals	5448	Nill	Nill	Nill	5448	Nill
Digital Database	3	590367	3	14608	6	604975
CD & Video	1656	Nill	22	Nill	1678	Nill
Others(specify)	719	111283	141	26055	860	137338

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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
Dr.V. Rajeswari	Control Systems	http://175.101.12.228/moodle/login/index.php	01/07/2019
Mr.M.Sudheer Kumar	Power Systems-I	http://175.101.12.228/moodle/login/index.php	01/07/2019
Ms. R.Shylaja	Electromagnetic Fields and Waves	http://175.101.12.228/moodle/login/index.php	01/07/2019
Ms.Sinthura Siva S	Digital Image Processing	http://175.101.12.228/moodle/login/index.php	01/07/2019
Ms D Swapna	Cryptography and Network Security	http://175.101.12.228/moodle/login/index.php	01/07/2019
Ms.Nagaveni B, Mr. Murali Nath R S	Discrete Mathematics	http://175.101.12.228/moodle/login/index.php	01/07/2019
Ms.Sangeetha D	Web Technologies	http://175.101.12.228/moodle/login/index.php	01/07/2019

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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	662	15	1	0	1	2	5	220	0
Added	35	1	0	0	0	0	0	0	0
Total	697	16	1	0	1	2	5	220	0

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

220 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
Logitech Group HD Camera Mic Speaker , Computer with I3, 8 GB RAM, 500 GB HDD, Keyboard, Mouse, 43 TV Audio System	https://youtu.be/UO8vBarh7to

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 incurredon maintenance of physical facilites
650	641.12	332	191.36

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)

Physical Facilities: College has a Site engineer and Maintenance Engineer to render the technical assistance for construction, building maintenance and repair-works. The Maintenance team is taking care of painting, civil maintenance, plumbing work, electrical, and air-conditioning. Laboratory Maintenance: All the equipment and machinery of the laboratories are periodically maintained by the lab technicians. For the equipment to be serviced during the warrantee period the supplier of the equipment is intimated and it is serviced either in-house or in the supplier premises based on the nature of defect. After warrantee period, the equipment's service will be taken care by the technical staff associated to the respective laboratory. The maintenance Mechanical/Electrical equipment is done periodically. A Breakdown Register is maintained in each the laboratory. As per the requirement, minor repairs are carried out by the lab assistant of the specific laboratory. Computer and Accessories Maintenance A dedicated System Administration team takes care of the maintenance of Computers, LCD Projectors, Printers and the networking equipment. They also maintain Internet utilisation, firewall maintenance and CCTV Security Systems. The service and maintenance of the systems are done on regular basis. Electrical Maintenance • Each department lodges a complaint about the electrical maintenance work and give their requirement of electrical appliances to the Administrative officer, skilled Electrical Supervisors will monitor the electrical maintenance on daily basis. • The college has a 34 KWP solar plant which is maintained by the Department of Electrical and Electronics Engineering. Library: Library updates its books

repository on a yearly basis as per the changes in the curriculum. Requirements from the students and faculty members are collected in the prescribed format for the books to be procured beyond the curriculum. Library committee discusses and approves the procurement of books. The library committee meets once in semester to upgrade and procure any additional and general books both technical and non-technical. To create good interest in reading every very month fiction and nonfiction books worth of Rs.3000 are procured as per recommendations of students and faculty members. Sports Complex Maintenance and Utilization • All Sports amenities such as playgrounds and courts are under the control of physical directress. • The maintenance of the Courts is done on time. Students receive the sports kit from the physical education department for practicing by entering their name and roll number in material issue register and after completing the practice session the student returns the same in physical education store room. Other Maintenance Activities: • Maintenance of gardens, Tree plantation, Landscape maintenance done by gardeners under guidance of professional horticulturalist. • Maintenance of Lift is done by the service provider. • Every department has an intercom facility- EPABX. • Fire extinguishers are available in the campus and mock drills are regularly conducted. • Cleanliness of class rooms, corridors etc., are maintained by the housekeeping staff. Stock verification is done at the end of every year by the staff members deputed by the Principal.

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	BVRITH Scholarship	28	229500
Financial Support from Other Sources			
a) National	Postmetric Scholarship, National Scholarship Portal, AICTE Pragati, Janmabhoomi AP, AP Police Education Merit, Talent Sprint, Potukuchi Somasundarm social welfare and charitable trust, Loreal India Young Women in Science	806	35333500
b)International	Nill	Nill	Nill
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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 implemetation	Number of students enrolled	Agencies involved
Guidance for Competitive	27/07/2019	200	Training by Focus Academy for Career

Examinations			Enhancement (FACE), Mr. Praneeth, praneeth@focusacademy.in
Guidance for Competitive Examinations	29/04/2020	411	WISE - ML 201, Talent Sprint Pvt Ltd. Ms. Indira,talasila.indira@talentsprint.com
Career Counselling	23/01/2020	172	Visa processing and Documentation at Hyderabad Visa Officer, suheil@usief.org.in
Career Counselling	19/08/2019	60	Career Aspirations in Science and Technology Program for I B.Tech ECE-A by VEDIC Faculty, Mr. J Augustine, Behavior Specialist, augustine.j@srivishnu.edu.in.
Soft skill development	15/07/2019	396	Campus Recruitment Training By Elephos Edu Services, Mr. Prashanth, prashanth.r.patlolla@gmail.com
Remedial Coaching	12/11/2019	13	BEE by EEE Faculty, BVRIT HYDERABAD
Language Lab	26/10/2019	114	Meraki - Literary Club by BVRITH, Dr. S. Faith Manjusha, BSH, BVRIT HYDERABAD, manjusha.s@bvrithyderabad.edu.in
Bridge courses	02/08/2019	36	Bridge Course on Computer Programming for Lateral Entry students by Ms. S Rama Devi Mr. MD Sugnan Rao, BVRIT HYDERABAD, ramadevi.s@bvrithyderabad.edu.in
Yoga and Meditation	06/09/2019	45	Mr.P.Nagaraju, Pramanik yoga, nagaraju.p@bvrit.ac.in

Personal Counseling	31/07/2019	208	Dr. Anitha Are, Professional Counsellor, orientation for IV Year students of ECE EEE, psychologist@bvrithyderabad.edu.in

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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 passedin the comp. exam	Number of studentsp placed
2019	Guidance for Competitive Exam and Career Counselling	1621	1291	9	242
2020	Guidance for Competitive Exam and Career Counselling	1207	802	5	10

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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
8	8	10

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Capgemini	328	147	TCS	314	104

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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	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.Tech	ECE	University	MS

				of Missouri, Kensas	
2019	1	B.Tech	CSE	UNIVERSITY OF CENTRAL MISSOURI	Masters Computer Science
2019	1	B.Tech	EEE	California State University	MS
2020	1	B.Tech	CSE	Georgia State university	MS in Computer Science
2020	1	B.Tech	ECE	Purdue University	Masters Computer Science
2020	1	B.Tech	IT	Southern Illinois University, Carbondale	MS in Computer Science

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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	4
CAT	1
GRE	9
Any Other	13

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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
Department of ECE conducted Quotemaster on behalf of Womens Day on 7th March 2020	UG	78
To inculcate the traditional customs of sankranthi, BVRIT HYDERABAD Conducted Sankranti Sambaralu on 8th Jan 2020 in the college premises.	UG	1452
Fresher's Day -2019 was held on 30th September 2019	UG	846
Department of ECE conducted Greenflare, a competition on creative designs on 26th September 2019	UG	92

8th Induction Day was held on 5th August 2019.	UG	541

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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/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Winners in Volleyball in CIYARAA H-2K20 , Sports meet held at Institute of Aeronautical Engineering during 13th, 14th March 2020	National	1	Nill	19WH1A0407	Ms.M.Shravani

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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)

BVRIT HYDERABAD College of Engineering for Women believes in providing an environment conducive to educational and personal development of students. Their active involvement in the committees helps them to understand the decision making process. Student clubs nurture the skills of the students. It helps in the transformation and holistic development of the students. There are different committees at Institute level and Department levels where the students and the faculty members play active role in planning and execution of the events. The students are involved in the following committees along with the staff members. • Anti-Ragging Committee: Student members play a vital role in making the freshers to feel comfortable in the new environment. They help them to have a smooth and peaceful transition into college life. • Sexual Harassment Committee: It ensures "the right to dignity to all" in the campus. The student members educate the peers. They also display anti sexual harassment posters in the common waiting room. • Class Representative Committee (CRC): The CRC of each class consists of 6 students – 2 Class Representatives, 2 average,2 lateral/Telugu medium students. This committee conveys the pulse of the class to the members, which ensures the smooth conduction of class work as per the schedule. • Department Technical Associations: Each Department has Technical Associations for organizing various activities to improve Technical skills. Students schedule and organize various activities that include Guest Lectures by experts, Seminars, Workshops and Intercollegiate meets to develop the personality and skills of the students. • Hostel Committee: The student representatives shall report to the faculty in-charge / warden about the issues related to general cleanliness in and around the hostel. Thus to ensure a peaceful and congenial environment to the hostellers. • Canteen Committee: They ensure that the mess is providing quality food. Any change in the menu or quality of service given by the canteen staff, will be brought to the notice of

faculty in-charge. • Sports Committee: The committee plan and conduct Intra-college and inter-college sports events. Students co-ordinate and organize "NYPUNYA", a national level sports meet in the college campus, once in two years. • Co-Curricular Committee: Student members identify and plan co-curricular activities under various professional bodies like IEEE, IETE IEI, ISTE, ACM and CSI. These student chapters also organize technical activities and sessions. • Grievance Redressal Committee: This is formed to address the grievances of the students, staff and parents. The student members participate in resolving the issues. • Literary Cell: Students improve their language skills being part of MERAKI -Language club, Toastmaster and the Page Turners-Readers club. The members plan, schedule and conduct the activities. • Extra-Curricular Activities Cell: The Student members play active role, such as being a helper in a dance club, a soloist in a music club or an artist making scenery in a drama club. • B-Smart Editorial Board: The members of this biannual magazine involve in filtering and compiling of submitted articles.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Institution has a very active BVRIT HYDERABAD ALUMNI ASSOCIATION formed in the year 2016 with the Reg. No: 1761 of 2016. All the outgoing students by default become part of the BVRIT HYDERABAD ALUMNI ASSOCIATION. Members of association are nominated and elected by alumni. The alumni form the major strength and are brand ambassadors of the institution. Our college alumni has a separate Facebook pagehttps://www.facebook.com/BVRIT-Hyderabad-Alumni-Association-204704556740656/ created for their networking and to inform about major activities and achievements of the college. Our alumni contribute to the institute in two ways: Non-Financial Means: • Mentoring and Career Guidance: The alumni visit the institution frequently to deliver Guest lectures and seminars for the students in their areas of expertise, and to motivate the students. They also help the students in projects, mentorships and internships. They mentor the IV and III B.Tech. students towards higher studies and career opportunities. • Placements: The alumni of the college are also one of the sources for placement training to the students. Alumni from the corporate help the present students in preparing for placement exams and interview. Prior to the placement drives, the alumni guide the students about industry requirements and its related technologies. They provide more inputs by conducting mock interviews. • Support system: Alumni are our most loyal supporters and our best ambassadors. They offer invaluable marketing and promotion across their personal and professional networks. An engaged alumni network allows the Institute to benefit from the skills and experience of our graduates, by offering their support to their juniors. They provide referrals for the students to the company they work for. They also communicate about internal job opportunities if any. Alumni are also part of committees like Department Advisory Board, Internal Quality Assurance Cell etc. where they provide suggestions on incorporating latest technologies in order to meet the demands of Industry. Financial Means: • Financial Contributions: Most of them voluntarily 'Give-Back' to their alma mater as a sign of their gratitude and affinity towards the institution. The Alumni initiated Gold Medal for the best placement and financial help to the needy students. A strong alumni association can be one of the biggest benefits of an institution that can contribute towards various developmental activities of the institution. Leveraging the alumni community can be a win-win for both the institution and the alumni.

5.4.2 – No. of enrolled Alumni:

1262

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

183500

5.4.4 – Meetings/activities organized by Alumni Association :

The 4th College level Alumni meeting was conducted online on 07th Dec 2019. The batch of 2015-2019, 2014-2018, 2013-2017, 2012-2016 attended the meeting. During the meeting Alumni interacted with their juniors and gave them guidance about their future plans and how to step forward and build a progressive future after graduation. Alumni committee members conducted a meeting on 19th Oct 2019. During the meeting the committee members discussed utilization of alumni corpus funds in the form of funding the needy students along with the gold medals to the placement toppers which has already been initiated in the earlier years.

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 events conducted in the college involve various committees and cells. The Convener of the event assigns and monitors the works given to the committees and cells. Few adhoc committees are also formed for the further diffusion of the works related to the event. The involvement of the committees is demonstrated in the following case studies. CaseStudy1: "Induction Day" Committees Involved: • College Academic Committee (CAC): Reviews and approves the plan of action and budget proposed by the Dept. of BSH. • Finance Committee: The budget proposed by the BSH is submitted to Finance Committee for approval. • Purchase Committee: Takes care of the expenditure made towards Registrations, Invitations, Badges, Food Counters etc., • Department Academic Committee (DAC): Decides on the Convener, designs the schedule, prepares the budget, and devises the plan of action for the Induction Day and submits to CAC for approval. • Programme Committee: Headed by the convener, the Programme Committee works in coordination for the successful completion of the event as per the schedule. • Canteen Committee: Decides on the menu and ensures that the food arrangements are hygienic. • Public Relations Media Cell: Invites journalists from both electronic and print media to cover the program. AdhocCommittees: • Organizing committee – Space allocation for the stalls, preparation of the schedule and organizing inauguration and Valedictory Programs, etc., • Invitation committee— Invitees list and Invitations • Stage decoration committee- Stage Decoration, Banners, Mike setting etc., • Registration Committee- Senior students create awareness about branch wise student chapters, sports , various clubs in the college, hostel facilities etc., • Transport Committee –Logistics of the guests. • Stalls Committee – Sets-up stalls for 1st year books, requirements of the essentials to stay in the hostel and other stalls. • Food Committee – Decides the menu, ensures hygienic distribution of food. • Discipline Committee –Helps students and parents regarding the venues for various events. After the fest, the convener submits the income and expenditure statement to CAC. CaseStudy2: One Week Free Online Faculty Development Programme on "ARTIFICIAL INTELLIGENCE" Committees Involved: ? College Academic Committee (CAC): Reviews the plan of action and budget of the FDP proposed by the DAC of departments of CSE IT. ? Finance Committee: Reviews the budget proposed by the DAC for the FDP. ? Department Academic Committee (DAC): Decides on the title, objectives, speakers, duration, budget and mode of conduction of the FDP. The same is submitted to CAC and Financial committee for approval. ? Programme Committee: The programme committee headed by the convener smooth conduction of the conduction of FDP taking care of, Inaugural, technical sessions, Valedictory, Issuing the certificates etc.

Public Relations Social Media Cell: Ensures the details of the FDP are published in newspapers and social media. Adhoc Committees: Organizing committee: Ensure smooth conduction of all the sessions as per the schedule. Invitation committee: Plans Invitations to dignitaries speakers, mementos to the speakers. Registration Committee: Monitors Registrations and FDP kit. After the FDP, the convener submits the income and expenditure to the CAC.

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
Admission of Students	Admission into the college is based on the rank scored in the Telangana State Engineering, Agriculture Medical Common Entrance Test (TSEAMCET). 70 of the seats are allotted based on the reservation policy of the State Government. The reservation is provided for Schedule Castes, Schedule Tribes, Backward Castes, PHC, Ex-Service Men and NCC as per the policy. Female candidates will be given reservation of 33, in each course under each category. B Category seats 30, out of which 50 seats are filled on merit and remaining are filled by NRI students. The unfilled seats are filled by spot admission.
Industry Interaction / Collaboration	Our college enhances the success of the education by seamlessly integrating the students to the industry. To achieve this college has taken the following steps: - Tied up with an industry partner and initiated Women In Software Engineering (WISE) programme to train the students. - Partnered with top companies like Microsoft, Amazon, Flipkart, Qualcomm, EPAM. - Recognised as strategic partner by Capgemini. - Provided regional industry liasoning offices across 5 cities for close interaction with industries. - Conducting programs in association with NASSCOM to upskill the students - Signed MoUs with industries to provide training and internship opportunities for students.
Human Resource Management	College has well framed policies for managerial aspects like, recruitment, responsibilities, privileges, incentives, promotion, relieving, retirement etc. Staff members are recruited for the posts of Professor, Associate Professor, Assistant

	Professor, lab technicians and administration, following the norms given by affiliating university. The staff attendance is monitored both by biometric and attendance register which they duly sign twice a day. Faculty members are given incentives for achievements and financial support for research work. HoD of each department conducts the department meeting once in a month to discuss and review department work.
Library, ICT and Physical Infrastructure / Instrumentation	Library: Classroom library is a unique practice initiated by our college. Through the 'Earn while Learn' scheme the library pays on hourly basis to the economically backward students. E-resources were made available to the students. ICT: The College encourages the faculty members to use ICT tools like Padlet, Kahoot, Google classroom etc., for enhanced teaching and learning experience. The faculty members were engaging in activity based teaching as well. Infrastructure: The college regularly upgrades its infrastructure for the smooth conduction of academics and administration. The augmentation needed for the forth-coming academic year is made ready in the year break.
Research and Development	Research and Development is continually encouraged by the administration through Research and Consultancy Cell, financial support for FDPs, publishing/presenting papers in the reputed as well as for project proposals. The institution provides opportunities to the faculty members to pursue Ph.D. and also assist financially to apply for patents. The institute provides research facilities in the emerging areas. A Research Committee under the Chairmanship of the Principal regularly reviews the progress. R D Cell also encourages the faculty members to apply, acquire and implement consultancy projects. The students also encouraged to participate in various Hackathons.
Examination and Evaluation	The evaluation process comprises internal evaluation and external evaluation. Internal evaluation is for 25 marks and external evaluation is for 75 marks. Question papers are set following Bloom's taxonomy. Laboratory courses are internally evaluated for 25

	marks – day-to-day evaluation is 15 and internal examination is 10, and externally evaluated for 75 marks. Industry Oriented Mini project is evaluated for 100 marks externally and the seminar is evaluated for 100 marks internally at the end of final year, first semester. Major project is evaluated for 25 marks internally and 75 marks externally at the end of final year, second semester.
Teaching and Learning	Faculty members and students successfully adopted the online teaching/learning strategies. Online course content is available in the Learning Management System (LMS), specifically customized for us at'http://bvrithvidya.in/'. Online classes are being conducted using Microsoft teams, Google Meet, and Zoom. Faculty members are making the class interactive by using Microsoft whiteboard, Google jamboard, Mentimeter, Kahoot, Polly, H5P videos etc. Faculty members and students are upgrading themselves by taking online courses offered by Coursera, Udemy, Edx, IUCEE as well as by attending webinars and conferences. Bridge classes and revision classes are conducted regularly to help the lateral-entry students and slow learners.
Curriculum Development	BVRIT HYDERABAD College of Engineering for Women is affiliated to JNTUH and follows the curriculum devised by the University. However, to produce globally competent engineers, in collaboration with TalentSprint, a software company, which offers a programme titled 'WISE' (WomenInSoftwareEngineering). The curriculum for WISE is developed by both the institution and TalentSprint by including latest software technologies to be taught as modules. The students are taught by both internal faculty members and the experts from TalentSprint. At the end of every module, students are required to do projects by applying the technologies learnt and these projects are evaluated by industry experts.

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

E-governace area	Details
Planning and Development	Through Engineering College Automation Package (ECAP), academic

	planning is made available through the academic calendar, course allocation, class timetables, lesson plans, lecturer diaries, etc., The content developed by the faculty members is made available to the students through LMS portal "bvrithvidya.in". This portal is also used to assess the students' understanding and learning.
Administration	The ECAP is used for Biometric Attendance System (BAS), Leave Management System, Library Management System, Student fee payment. Purchases, Inventories, Stock maintenance, Salaries of the staff members, etc., are maintained using PACT ERP.
Finance and Accounts	The ECAP is used for online fee payment by the students. The PACT ERP is used to maintain all the accounts, payments, advances, receipts, fee receipts, fee dues, etc.,
Student Admission and Support	The ECAP is used for maintenance of admission of the students. The students can pay their fees, view their attendance marks, library books availability, counselling remarks, etc., The students can also give feedback on teaching learning, facilities, course outcomes and also can express their grievances. The online course content is updated every semester and is made available on LMS. They can also self-assess their learning through the unit-wise quizzes. Old question papers, GATE question papers, placement related information, testimonials of the seniors, etc., are made available to the students.
Examination	e-governance of examinations is done using the below: ? Engineering College Automation Package (ECAP) ? JNTUH University portals The following works are maintained using ECAP: • Regular Exam Fee Payment • View of Student Internal and External Marks • Semester End Exam Results JNTUH Portals 1) EDEP Portal (exams.jntuh.ac.in) • Notifications, Time table, Academic information, External Question Paper, Password for Decrypting Question paper, Result T-Sheets are available in the portal. 2) Registrations Portal is used for: • Uploading Student Profile and Fortnight Attendance, • Registration for End Exam/Recounting/Revaluation. • Uploading Mid marks, Internal Lab

		marks, External lab, project marks, End Exams D-Forms (Attendance). • End exam Hall Tickets, List of students either Detained or under Condonation are displayed.

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
2020	Ms. K Nagakalyani	School of AI course on Extensive Vision AI Program Version 4	Nill	11800
2020	Ms.D.Kavya Shruthi	School of AI course on Extensive Vision AI Program Version 4	Nill	11800
2020	Ms. P. Subhashitha	Online Workshop on Electric Vehicle - Charging Station Infrastructure and Technology	Nill	1300
2020	Mr. S.Raghavendra	Nill	Hyderabad Management Association	944
2019	Ms. S.Rama Devi	Faculty Development Programme on Big Data Analytics and Machine Learning Application with PySpark	Nill	2000
2019	Mr. R S Murali Nath	Workshop on NAAC's new framework for accreditation and assessment of HEI opportunities and challenges	Nill	2500
2019	Dr. Aruna Rao SL	Workshop on NAAC's new	Nill	2500

Year		Title	Workshop on NAAC's new framework for accreditation and assessment of HEI opportunities and challenges		
2019		Dr. Anwar Bhasha Pattan	Workshop on NAAC's new framework for accreditation and assessment of HEI opportunities and challenges	Nill	2500

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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)
2019	Three day Faculty Development Programme on Professional Etiquette Emotional Intelligence	Nill	08/07/2019	10/07/2019	46	Nill
2020	One week Faculty Development Programme on Possessing the Two Wardrobes: Communication and Writing	Nill	25/05/2020	30/05/2020	300	Nill
2020	One week Faculty Development Programme on Artificial Intelligence	Nill	22/05/2020	26/05/2020	1382	Nill

2020	International online Faculty Development Program on Industrial Relevance of Electrical Engineering	Nill	15/06/2020	20/06/2020	327	Nill
2020	One week Faculty Development Programme on Advanced Data Science and its Applications	Nill	22/06/2020	26/06/2020	1330	Nill
2020	Nill	Professional Training Program on Ms-Office and Google suite	13/06/2020	15/06/2020	10	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 Professional Etiquette Emotional Intelligence	46	08/07/2019	10/07/2019	3
Workshop on Immersive Instructional Technology	2	23/07/2019	25/07/2019	3
Faculty Development Programme on Artificial Intelligence	26	22/05/2020	26/05/2020	5
Faculty Development	1	23/09/2019	27/09/2019	5

Programme on Power Systems from JNTUH, Hyderabad				
International Online Faculty Development Programme on Research Challenges and Innovations in Renewable Energy Systems from AVIT, Chennai	3	11/05/2020	16/05/2020	6
Online STTP on Recent Trends in RADAR Signal Processing and IoT Applications	2	18/06/2020	20/06/2020	3
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
15	Nill	6	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
12	11	5

6.4 – Financial Management and Resource Mobilization

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

The institute has a mechanism for internal and external audit. The internal audit is conducted on quarterly basis. Qualified Internal Auditors and a team of staff under them do a thorough check and verification of all the transactions that are carried out in each quarter. The external audit is conducted once in a year to approve the balance sheet after due verification. Minor errors of omissions and commissions, pointed out by the audit team are immediately corrected / rectified and precautionary steps are taken to avoid recurrence of such errors in future. The institute regularly follows Internal External financial audit system. The functions of Internal Audit are: 1. Evaluates institution's overall internal control system related to finances. 2. Ensures proper recording and safeguarding of institution's income, expenditure, assets and liabilities. 3. Confirms compliance with laws, regulations and established organization's policies practices. The functions of External Audit are: 1. Verifies quarterly internal audit report, findings and corrective actions. 2. Prepares and approves the balance sheet after verifying the consolidated records.

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
Nill	0	Nill

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6.4.3 – Total corpus fund generated

00

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Nill	Yes	Nill
Administrative	Yes	Nill	Yes	Nill

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

Student performance is regularly evaluated, monitored, reviewed and conveyed to the parents through BULK SMS service on ECAP. Parents are actively involved in statutory bodies and in the design of policies (like vision, PEOs, etc.,). The guidance to the students involves parents also. The parents share their expertise with students and advise the respective departments for the further improvement

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

College has taken care to develop the technical skills of the support staff. Since the start of the online classes, the task of recording of these classes and subsequently making the recordings accessible to the students, is handled by the support staff. They help faculty in handling the virtual labs like ACS, ELCS, PPS, GITHUB etc.. The support staff is well-versed in handling the various online platforms like Microsoft Teams, Google Meet and Zoom. They use Microsoft office to do various documentations, small calculations and even short presentations.

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

a. Teaching professor b. Patent Filling c. Indo Universal Collaboration for Engineering Education (IUCEE) Teaching Professor Teaching Professor aims to create a newsletter that helps college faculty improve their teaching, share best practices, and stay current on the latest pedagogical research. It is initiated under IQAR. Subscription is given to few faculty. The knowledge gained is then shared with all the faculty members through online sessions. Few of the following topics were shared: Teaching strategies and techniques, grading and feedback, classroom climate, preparing to teach, student learning, professional growth, and online learning. The topics covered in these sessions are : A simple tool to check the student readiness for online classes, Chunking content, A framework for video discussions, Rubrics, etc.. Patent's filing Academic researchers are encouraged to patent resulting innovations to attract industrial investment to convert prototype inventions into commercially developed products and applications. The college supports the faculty members financially to build the proto-types. Faculty members are also supported to acquire the required knowledge through self-paced courses or workshops. The college has 30 patents filed and published out of which 3 were given grants also. Indo Universal Collaboration for Engineering Education (IUCEE) Indo Universal Collaboration for Engineering Education (IUCEE) was established in 2007 under the leadership of Dr. Krishna Vedula, Dean of an engineering college

at UMass Lowell. IUCEE operated through two formal organizations, namely IUCEE FOUNDATION in India and INDO UNIVERSAL COLLABORATION FOR ENGINEERING EDUCATION INC in USA. The primary aim of this organization is to improve the quality and global relevance of engineering education in India. Our college is a consortium member of this great organization. Through IUCEE, the faculty members are training in latest pedagogical techniques and also the research methods. The students are trained multi-dimensionally.

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	A National Level Students Tech Fest Medhanvesh-2019	20/04/2019	02/10/2019	03/10/2019	337
2020	One Week FDP on Advanced Data Science and its Applications	02/11/2019	22/06/2020	26/06/2020	1330
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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
Need for Gender Studies	20/07/2019	20/07/2019	49	Nill
I am Generation Equality' Women's Day	06/03/2020	06/03/2020	184	21
Combating Harassment at Work	19/02/2020	19/02/2020	51	Nill
Role of Education in Nurturing GS	17/01/2020	17/01/2020	47	Nill
Me Too	18/12/2019	18/12/2019	56	Nill

Campaign'				
How to Have an Equal Relationship	12/11/2019	12/11/2019	48	Nill
Declining Sex Ratio: A Grave Concern	25/10/2019	25/10/2019	55	Nill
Domestic Violence: Is Home a Safe Place?	07/09/2019	07/09/2019	52	Nill
Invisible Housework	24/08/2019	24/08/2019	54	Nill
Significance of Gender Sensitization	03/08/2019	03/08/2019	56	Nill

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
17

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	0
Provision for lift	Yes	0
Ramp/Rails	Yes	0
Braille Software/facilities	Yes	0
Rest Rooms	Yes	0
Scribes for examination	Yes	0
Special skill development for differently abled students	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
2020	Nill	1	15/05/2020	1	Grocery distribution	supplied to the needy people during the	6

| 2020 | 1 | Nill | 01/02/2020 | 4 | Qualcomm mentership | Technical training for industry readyness | 63 |
| 2020 | 1 | Nill | 02/01/2020 | 1 | NASSCOM future skills platform | Orientation on emerging areas | 122 |

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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)
Code of Ethics	15/07/2019	Responsibilities of faculty and students are clearly mentioned along with the rules to be followed for smooth functioning.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Republic Day Celebrations	26/01/2020	26/01/2020	59
JUST-A-MINUTE session on RIGHT TO VOTE	28/11/2019	28/11/2019	32
Independence Day Celebrations	15/08/2019	15/08/2019	98
Poster Making competition - Independence Day and Impotanace of Constitution of India	13/08/2019	13/08/2019	36

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

1. Usage of plastic is band in college premises 2. Rain water harvesting pits at various locations in campus are established as per standards. 3. STTP plants is established to treat sewage water 4. Haritha haram is a green campus initiative 5. Bicycles are arranged in campus for hostelers

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

BEST PRACTICE 1 Title: Strong Industry - Academia Connect Objectives: Reduce the gap between the engineering curriculum and industrial needs through parallel curriculum, value-added courses and certifications. Increase in the career opportunities by enhancing the technical competency and intellectual ability. Exposure to the industry environment through internships, mentorships,

trainings and field trips. Establishment of industry sponsored incubation centers to promote R D and start- ups. Context: The gap between the engineering curriculum and industrial requirements is ever widening as the demand cannot be met through regular revisions in the curriculum. The curriculum mainly focuses on the fundamentals and the industrial requirements are based on the real-time demands to provide feasible solutions within the specified time frame. There are also diversive, but interconnected interests of educational institutions and industries. The requirements of educational institutions are funding infrastructure, equal partnerships, placements and feasible goals, whereas the requirements of the industries include market-aligned courses, skilled engineers, feasible solutions and operational approach. The students are more accustomed to classroom learning based on the prescribed curriculum and are unaware of the developments in the industry. The Practice: Multiple approaches are followed/ implemented to achieve the above said objectives. Implementation of parallel curriculum through "Women In Software Engineering – WISE" programme by the trainers from industry, was introduced from the inception of the college to reduce the gap between the curriculum and industrial needs. This programme is implemented from the first year along with the regular curriculum by allocating four hours per week. The curriculum for this programme is designed based on the industrial needs and revised accordingly. The curriculum consists of six modules. In each module, the students are taught through hands-on sessions, collaborative learning, self-learning, presentations and demonstrations. The performance of the students in each module is assessed through tests, assignments, projects and presentations. The projects of the students are evaluated by the people from industries. Trainings in Value-added courses and Certifications by industry certified internal faculty members and external agencies will also help in meeting the industrial requirements. Technical Competency and Intellectual ability is enhanced by encouraging and guiding the students to develop the prototypes based on their ideas to the real-world problems, and demonstrating them in various national and international platforms. The competency and ability to provide solutions to the real-world problems is also enhanced through the analytical and technical training provided by internal faculty members and external agencies. An incubation center is established to guide the students in transformation of prototypes into products, there by leading to start-ups. Exposure to the developments in the industry is achieved through the trainings and mentorships by the personnel from reputed MNCs viz., Microsoft, Amazon and Qualcomm. The industry environment is experienced through internships at various public and private organizations and also through field trips. The college alumni share their work experiences, technologies used and also conduct mock interviews frequently to make the aspiring students placements-read Evidence of Success: The practices implemented in BVRITH, resulted in the following: Established in 2012, intake was doubled gradually from 240 to 480. All the offered programmes are accredited by NBA for three years within six years of inception. Only Engineering College in the state of Telangana recognized by AICTE for the best practices. Recognized by "IMC Ramakrishna Bajaj National Quality Award" for Quality in Education at the national level. More than 15 organizations along with internal faculty members contribute in trainings. More than 30 organizations offer mentorships, internships and provide field-trips. More than 70 organizations offer placements. 100 placements for all eligible students. Placements in prestigious organizations viz., Microsoft, Amazon, Flipkart, Adobe, Qualcomm, HP, John Deere, CapGemini, Accenture, IBM, TCS, Infosys, MuSigma etc. On average more than 80 students per batch doing Internships, many of them with stipend in reputed organizations viz., BNY Mellon, OpenText, IBM, Adobe, Virtusa, Service Now, HPCL etc. Student representation and success in prestigious events like World Skills competition 2017, FOSS Asia, GSoC, OUTREACHY etc. Problems Encountered and Resources Required: Continuous up gradation of parallel curriculum based on the industrial needs. Up-skilling of

faculty members by Industry. Identification of resource persons from industries and academia. Acceptance from industries for internships, mentorships, field visits and placements. Infrastructure augmentation. BEST PRACTICE 2 Title: Technology-Based Solutions to Societal Needs Objectives: Inculcating the culture of "giving back to humanity". Cultivating the attitude of "We and Us" instead of "me and me". To mold the students to be the creators and explorers of new ideas and architect of an end product. Implementing the motto of "Technology to Society" Context: In the current busy world, most of the people are expecting more from the society and nation, and not thinking of giving back to society. Many sections in the society are waiting desperately for solutions to their needs. The current generation is driving to the culture of "I and me", thereby leading to narrowness. This attitude can be altered by encouraging the people to work and learn in groups, thereby leading to "We and us". Now-a-days, students are gaining theoretical knowledge in multiple domains but not focusing much on applications. Many students are unaware of applying their knowledge in contribution to the society. Process: BVRIT HYDERABAD College of Engineering for Women (BVRITH) contributes to the society in terms of both monetary and non-monetary services through NSS Wing-BVRITH for people and beyond NSS also. BVRITH has also taken an initiative "Technology to Society" to provide the technological solutions to the societal needs by providing applications, prototypes or products to the needy. The students and staff members are currently working in the areas of Autistic, Visually Challenged, Agriculture, Safety Security, Special Aids and Smart Devices. In this direction, Assistive Technology lab (ATL) in association with UMASS, Lowell, USA and IoT Maker Space lab in collaboration with Telangana Academy for Skill and Knowledge (TASK) and Hyderabad Software Enterprises Association (HYSEA) were established. Institute Innovation Cell (IIC), an initiation by MHRD is also established in 2019 to enhance the innovation culture in the campus. Online training classes are conducted by Prof Alan Rux, founder of ATL Program, UMass Lowell, USA to the students and faculty members. Based on the necessity, specialized trainings are also arranged for both the students and faculty members by the industry experts in the cutting edge technologies to transform the solutions into products. Our faculty members and students are also given an opportunity to learn from the world's premier boot camp organized by MIT in association with LVPEI – "Engineering the Eye" to bring innovative solutions in the ophthalmology area. Student teams visit different NGOs /other organizations along with the faculty members to identify their needs. The needs are also gathered through different Hackathons. Now, the teams come up with innovative ideas, after brainstorming, the solutions are provided as per the identified needs. These solutions are transformed into Apps or prototypes. Evidence of Success: All the members of the BVRITH are actively involved in giving back to humanity and the attitude is transformed from "I and me" to "We and us". The students developed required skills to form into multi-disciplinary teams, gather the needs and requirements develop the ideas and transforming into solutions. The students performed very well in the Hackathons conducted by various organizations like Smart India Hackathon, Cisco Hackathon, Food Hackathon etc. List of products developed by us under various areas for the societal needs are: Autistic Kid Zone – Learning App for Special Kids Things That Go Together – Trainer for Autistic Kids 7-In-1 Trainer Board Colors– Mobile Application Poems– Mobile Application Short Stories– Mobile Application Visually Challenged Formulae Trainer for the Visually Impaired L guide - Learning App for Speech and Hearing Impaired Indian Map Identifier for the Visually Impaired Ball Game for the Visually Impaired Self-Local Navigation for Visually Impaired Walking stick for visually impaired Web based electrical appliances control for assisted living Solar Seed Fling Machine My Crop is Healthy Drones for Early Pest Detection Leaf Disease Detection using Machine Learning Automated Cotton Plucking Robotic Arm Smart Crop Monitoring System Smart Compost System Women Safety Be safe Stand Up! For Women Safety Special Aids Smart T-Shirt for the Injured Writing Aid for Upper

Limb Amputees I.V. (Intravenous) Fluid Level Indicator I- Walk Heat Index Alert for Geriatrics Sign Language Glove Mobile controlled wheel chair Fellow follower Intelligo Signaling Jacket Password Authentication Using Mindwave Mobile for Hamstrungs Smart Devices Home automation using a flex sensor for disabled people Voice Controlled Home appliances (VoCA) Smart Security Check SmartTrans Drone Patrolling Voice Text Based Digital Notice Board Using IoT Early Vocabulary - Mobile Application Vehicle Sounds And Voice Sounds- Mobile Application Syllable Length Word (Telugu) - Mobile Application Syllable Length Word (English) - Mobile Application Discriminate Consonant- Mobile Application Same Length Word (English) - Mobile Application By Manner- Mobile Application Mobile application for reading out expiry date of drugs Suvidha - The Voice of Villages Problems Encountered and Resources Required: Allocation of time in the busy academic schedule. Identification of resource persons from industry for trainings. Collection of formal requirements from the needy.

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

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

BVRIT HYDERABAD College of Engineering for Women (BVRITH), actively promotes innovation in teaching learning among the faculty and student fraternity through Vishnu Educational Development and Innovation Centre (VEDIC). VEDIC is a unique centre of excellence set up as a transformational platform for Sri Vishnu Educational Society Institutions. Students and faculty members undergo a development learning experience in the residential campus. This centre is involved in educational research to increase students' success and promote active learning practices. With a mission to create inspiring teachers and innovative students, it provides a positive and a professional environment through excellent facilities. The Centre facilitates a collaborative environment between the students and the faculty to bring innovation into classroom experience. The college has focused on improving teaching learning methodologies since faculty are the corner stones in shaping students' careers. VEDIC facility gives all faculty participants a sense of belonging by creating a collaborative environment for faculty from institutions come from all institutions under the society. This helps faculty learn from other colleges' careers. Students visit VEDIC campus to understand the difference between school level and college level learning and to understand the industry requirements of problem solving and critical thinking. Teaching Learning: VEDIC accelerates the process of practicing activity-based teaching/learning in classrooms to make the students actively involved. The two main challenges any faculty member face are as follows. Classroom faculty member to student communication for hard topics and subjects. Effective Assessments. Classroom faculty member to student communication Faculty members across all four engineering colleges under SVES, belonging to the same department, e-connect using Zoom/Skype/Hangouts twice a semester with each other in the presence of a subject matter expect. The faculty develop instructional material (Video/PPT/Software tool etc.) This exercise is referred to as the CONNECT program. This also helps exchange of curriculum ideas among the colleges. The following are the key outcomes of CONNECT program. Identify new methods to teach a complex topic Use of instructional technology Discussion on misconceptions and alternative conceptions paved way to clarification of doubts. Instructional material developed is shared among the group of institutions. All faculty members undergo training on Scientific Educational Practices. Various ICT tools are provided in every classroom for effective

dissemination of knowledge to students. Faculty members communicate through google classrooms/Edmodo for sharing the resources, conducting quizzes and for assignments. Various activities such as mind map, role play, chart preparation, etc… are planned by respective faculty once during course delivery. Effective Assessments In order to measure the evidence of understanding, the faculty members monitor closely the performance of each student using the following methods: Active participation in hackathons/competitions/coding challenges etc… Number of students graduated against total number of students Feedback from recruiting companies The above assessments are reviewed from time to time and corrective/prescriptive measures are taken subsequently. The results of these initiatives resulted in many achievements. Two gold medals from affiliating university for two consecutive years The National Institute Ranking Framework (NIRF) ranked the college at 199 among all colleges in India

Provide the weblink of the institution

8.Future Plans of Actions for Next Academic Year

The college administration has approved the following plans for improvement/enhancement in the AY 2020-21 Academics: a. Apply for one UG and one PG programme in the emerging technologies b. Enhance the existing LMS by incorporating new features to facilitate efficient learning and assessment. Collaborations: a. Improve the collaborations with foreign universities and premier institutes for research collaboration and admission into PG programmes b. Strength the Industry-Institute collaboration for consultancy projects, placements and research. Placements, Entreprenuership Startups: a. Improve the number of offers and achieve 500 b. Average pay package has to be improved by increasing the number placements with the higher packages. c. Strengthen the entreprenuership skills by having training sessions Research Upskilling: a. Encourage the research culture, resulting in increase in funded projects, consultancy projects and patents. b. Upskilling the faculty members in emerging technologies through industry connect Accreditations Ranking: a. Submission of compliance reports for NBA b. Improve the ranking in NIRF, ARIIA, etc., Administration: a. Extend decentralization process by creating the posts Professor I/C of Academics and Professor I/C of Accreditations b. Implement cashless fee payments