Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**VIGNANA BHARATHI INSTITUTE OF TECHNOLOGY**
Name of the head of the Institution	**Dr.G.Amarendar Rao**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**08415200419**
Mobile no.	**7993453633**
Registered Email	**principal@vbithyd.ac.in**
Alternate Email	**vbitiqac@vbithyd.ac.in**
Address	**Aushapur (V), Ghatkesar (M), Medchal Dist, Telangana State 501301**
City/Town	**HYDERABAD**
State/UT	**Telangana**
Pincode	**501301**

2. Institutional Status

Autonomous Status (Provide date of Conformant of Autonomous Status)	**29-May-2019**
Type of Institution	**Co-education**
Location	**Rural**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Dr.Jayant Kulkarni**
Phone no/Alternate Phone no.	**08415200321**
Mobile no.	**9989395570**
Registered Email	**vbitiqac@gmail.com**
Alternate Email	**vbitiqac@vbithyd.ac.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://vbithyd.ac.in/wp-content/uploads/2019/11/Attachment-3.pdf

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://vbithyd.ac.in/academics/almanac/

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.23**	**2018**	**03-Jul-2018**	**02-Jul-2023**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**01-Jun-2015**

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

Reforms in preparation and presentation mechanism of Academic Plans	01-Jun-2019 365	238
Syllabus Review mechanism through working groups	01-Nov-2019 30	105
Establishment of additional Directorate office- IIIC	01-Jul-2019 365	257
Administrative improvements in central store, Transport system through E- Governance	02-Jul-2019 365	3000
Decentralization in Administration with Registrar as Head	02-Sep-2019 365	100
Introduction of Participatory Learning Activity foe UG studentsin Academic Regulations	01-Aug-2019 365	960
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8. Provide the list of Special Status conferred 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
Department (Civil Engineering)	STTP	AICTE	2017 18	361666
Department (ECE)	FDP	E&IT, NIT-Warangal	2019 7	84000
Department (ECE)	Workshop	JNTUH	2019 3	185000
Institution	Unnat Bharat Abhiyan	MHRD	2019 365	50000
Dr.I.Lakshmi Prasanna (H&S)	Grant under collaborative research scheme	JNTUH	2019 180	250000
Institution	Project	ISRO	2017 1095	487000
Institution	SPDP	AICTE	2017 1095	438235
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes	

Upload latest notification of formation of IQAC	[View File](#)
10. Number of IQAC meetings held during the year :	**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 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)

Organized Academic Council Governing Body meeting at institute level Organized Board of Studies meeting in all departments Organized Finance Committee meeting NBA Accreditation for 6 UG programmes Academic Review and Planning meeting of all departments and functional units at the end of academic year

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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
Establishment of Industry Institute interaction Cell	**Established**
Introduction of PLA and its effective execution in first batch under Autonomous status	**Implemented**
More decentralization in Administration with Registrar as a head	**Implemented**
Uniform platform for public out reach through various print and media elements	**Implemented**
Reforms in preparation and presentation mechanism of Academic Plans	**Executed**
Preparation and submission of AQAR	**Submitted**
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14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date

Academic Council	20-Jun-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	29-Jun-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)	All basic information is being assimilated and distributed through electronic software i.e ecap Engineering college Automation Software). various features are: 1. Admissions This module makes admission process automated. It generates the report on the seats allotment by convener and its status like sliding of branches etc. Out of the students applied for seats under B Category merit list is prepared and offered them in the order of merit. Roll lists are also generated. 2. Academics Course Management: Creates Course based on Program, regulation, semester, branch. Faculty Course Mapping, , Academic Calendar, Teaching methodologies, and Elective Settings are offered Class Management: It creates Branch wise and Student wise Attendance. Time Slots, Time Tables, section, sub section, open elective, student attendance, extra class, class suspension and lab swapping facilities are provided. Student management: Student, rejoined student, readmitted student, substitute subject, student ID card and Bulk updating options are provided Certificates: It creates Course Completion Certificate, Custodian Certificate, Transfer Certificate, Bonafide certificate, third party verification and Pursuing certificate. 3. Examination and Evaluation Provides the functionality for student examination registration for end semester and creating seating arrangement for students. It

facilitates the Nominal Rolls, Room and Branch(s) wise on a date of examination for both Internal/External. Provides the functionality for generation of Admit Card and Internal Marks Entry by faculty. 4. HR Module Provide functionality for creating holidays, Various Leaves, creating user and assign roles, reference data, service book, Pending Approvals, Employee's Shift, Employee ID Card and define workflow. 5. Accounts and Payroll various account related functionalities are created like payment status, part payment, Ledger maintenance etc. payrolls can be created and the pay scales and Payroll details can be revised according to dynamically changing DA time to time. 6. Biometric Attendance 7. Learning Management Systems To create assignments/ attach file with mathematical equations if required for the students along with indication of marks, description and deadline for submission. Select the students for assignment submission.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	A04	ELECTRONICS AND COMMUNICATION ENGINEERING	15/07/2019
BTech	A02	ELECTRICAL AND ELECTRONICS ENGINEERING	15/07/2019
BTech	A05	COMPUTER SCIENCE AND ENGINEERING	15/07/2019
BTech	A12	INFORMATION TECHNOLOGY	15/07/2019
BTech	A03	MECHANICAL ENGINEERING	15/07/2019
BTech	A01	CIVIL ENGINEERING	15/07/2019
MBA	E01	BUSINESS ADMINISTRATION	15/07/2019
Mtech	D07	ELECTRICAL POWER SYSTEMS	15/07/2019
Mtech	D54	POWER ELECTRONICS AND ELECTRICAL	15/07/2019

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	III Year ECE	23/12/2019	Campus recruitment training	23/12/2019
BTech	III Year EEE	23/12/2019	Campus recruitment training	23/12/2019
BTech	III Year CSE	23/12/2019	Campus recruitment training	23/12/2019
BTech	III Year IT	23/12/2019	Campus recruitment training	23/12/2019
BTech	III Year ME	23/12/2019	Campus recruitment training	23/12/2019
BTech	III Year CE	23/12/2019	Campus recruitment training	23/12/2019

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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	Structural Engineering	15/07/2019

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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the College level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BTech	ECE,EEE,CSE,IT,ME,CE	15/07/2019
MBA	Business Administration	15/07/2019
Mtech	EPS, PEDR	15/07/2019

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
Python Programming	22/07/2019	46
Network Essentials	22/07/2019	446
C Programming	22/07/2019	615
IT Essentials	22/07/2019	571

IoT	22/07/2019	334
CYBER SECURITY ESSENTIALS	22/07/2019	104
Cyber Ops	22/07/2019	138
CCNA	22/07/2019	24
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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	EEE	86
BTech	ME	11
BTech	ECE	50
BTech	CSE	69
BTech	CE	79
BTech	IT	17
MBA	MBA	41
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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 feedback is collected by the Internal Quality Assurance Cell (IQAC). The institution has established a system of collecting feedback from the students in all courses twice in a semester. Generally, after 1 month of the beginning and at the end of every semester. The feedback has been collected through the online system by a defined in built feedback forms provided by ECAP application software where students can respond towards the structured questionnaire regarding the key elements i.e. communication, number of examples quoted, behavior in class, teaching methodology and so on. Maximum number of students is participated in giving feedback (98 to 100). 2. Feedback analysis: Once feedback is collected it will be under the process of the faculty performance through some standard statistical tool applications. The collected feedback is analyzed by the IQAC and a detailed report is submitted to the principal. 3. Rewards/Corrective Measures: The faculty is called to have a discussion about feedback with the HOD and Principal for the betterment in their performance. The best performed faculty members are encouraged with appreciation. Members of the faculty, whose performance is poor, are advised based on their weak areas by HOD and Principal. The faculty members are encouraged to participate in various Workshops/Seminars/ Conferences/ Training Programs/FDPs to enhance their skills. The institution organizes faculty development programmes

regulary for improving their knowledge and teaching skills.The faculty who performs extremely well is requested to conduct Faculty Development Programmes and participate in Research Development work.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
Mtech	PEDR	18	11	11
Mtech	EPS	18	14	14
MBA	MBA	120	72	72
BTech	CE	120	100	100
BTech	ME	120	75	75
BTech	IT	120	120	120
BTech	CSE	240	240	240
BTech	EEE	120	85	85
BTech	ECE	240	208	208
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2019	3607	203	207	18	225

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
225	184	15	15	15	8
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 has established a systematic mentoring process. ? As a part of this is process counseling is offered to a group of 20 students by faculty mentor ? Students are observed with regard to their attendance, performance and behavior and subsequently counseled by a mentor ? A record of the counseling will be maintained in mentoring register The College is practicing mentorstudent counseling pattern (1:20) from last four years. The mentoring registers are prepared which indicates the academic record of all the students which belong to the above mentioned groups. Based on the performance in first mid exams, slow learners are identified Mentors develop a rapport with the concerned students through personal interactions Mentors talk with their parents to make the interaction more effective and result oriented. Mentors are informed to provide special

attention towards this group of students. The purposes are as follows: 1. To maintain the spirit of teaching learning process at par with others 2. To assist them in pursuing their goal 3. To prevent the cases of detention because of lack of attendance or dropouts

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3810	225	1:17

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
225	221	4	4	46

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
2020	B.Manjulatha Reddy	Assistant Professor	Rising Star of the Year, National Summit on Women Education Empowerment 2020
2020	Dr.V.Deepika	Associate Professor	Leading Educationist of India Award
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester- end/ year- end examination
BTech	A-01, 02, 03, 04, 05, 12	III-II	24/11/2020	31/12/2020
BTech	A-01, 02, 03, 04, 05, 12	III-I	15/11/2019	08/02/2020
BTech	A-01, 02, 03, 04, 05, 12	II-II	25/11/2020	31/12/2020
BTech	A-01, 02, 03, 04, 05, 12	II-I	14/12/2019	10/02/2020
BTech	A-01, 02, 03, 04, 05, 12	I-II	24/11/2020	31/12/2020
BTech	A-01, 02, 03, 04, 05, 12	I-I	04/01/2020	20/02/2020
BTech	A-01, 02, 03, 04, 05, 12	IV-I	14/12/2019	06/02/2020

BTech	A-01, 02, 03, 04, 05, 12	IV-II	27/09/2019	02/11/2020

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
395	3452	11.4

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://vbithyd.ac.in/cse-program-outcomes/

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
03	BTech	ME	91	57	63
02	BTech	EEE	100	75	75
01	BTech	CE	93	80	86
04	BTech	ECE	198	140	71
05	BTech	CSE	191	109	57
12	BTech	IT	38	30	79

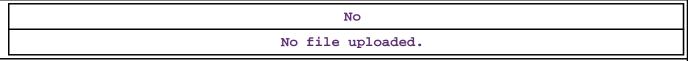| View File					

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://vbithyd.ac.in/wp-content/uploads/2021/05/Student-Satisfaction-Survey-2019-20.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – The institution provides seed money to its teachers for research

No
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3.1.2 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Syed Urooz Abbas	Summer Faculty Research Fellowship	04/06/2019	IIT Delhi

3.2 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	1095	AICTE	17.51	4.38
Major Projects	1095	ISRO	35	4.87
Any Other (Specify)	18	AICTE	3.61	3.61
Any Other (Specify)	7	NIT-Warangal	0.84	0.84
Any Other (Specify)	3	JNTUH	1.85	1.85
Any Other (Specify)	365	MHRD	0.5	0.5
Any Other (Specify)	180	JNTUH	2.5	2.5

3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

2

3.3 – Innovation Ecosystem

3.3.1 – 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
National Workshop on Scientific Article Writing	Civil Engineering	23/05/2020
Workshop on intellectual Property Rights	Research and Development	24/01/2020
Hackathon on Digital Agriculture	Industry Interaction Innovation Cell (IIIC)	07/02/2020
workshop on Cisco Certified Network Associate (CCNA)	Industry Interaction Innovation Cell (IIIC)	23/01/2020
Faculty Development Program on Additive Manufacturing Technology with hands on approach of 3D printing	Industry Interaction Innovation Cell (IIIC)	26/07/2019
Workshop on "Web Development"	CSE IT	16/07/2020
panel discussion on careers in corporate	MBA	08/02/2020

world in association with Indian Society For Training And Development		
two day workshop on Fabrication , Characterization and Applications of Composites	Mech.Engg.	09/12/2019
four day faculty development program on Mipower Simulation Software	EEE	09/12/2019
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3.3.2 – 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
AR in Education	Kaushik Apoori	Telangana state Innovation Council (TSIC)	17/04/2020	Research
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3.3.3 – 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
Yes	SHODH	SVET	ZARC	Entrepreneurship	09/03/2020
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
ECE	1
ME	1
CE	2
HS	2

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	CE	9	0.2
International	ECE	15	0.2
International	EEE	9	0.3
International	CSE	28	0.4
International	IT	8	0.1
International	ME	16	0.1
International	MBA	9	0.1
International	HS	13	0.1

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

Department	Number of Publication
MBA	11
HS	1
CE	5
ME	11
IT	5
CSE	11
EEE	35
ECE	19

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
IAEC- SYSTEM: INTELLIGENT IOT SYSTEM FOR AGRICULTURE ENVIRONMENT CONTROL	Published	202041010147 A	13/03/2020
FRUIT QUALITY DETECTION KIT: MONITORING FRUIT QUALITY USING RED LIGHT-INDUCED LUMINESCENCE THROUGH IOT	Published	202041022270 A	12/06/2020

3.4.5 – 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
Strengthening RC frames subjected to lateral load with Ultra High- Performance fiber reinforced concrete using damage	Kalyana Rama J. S.	Earthquakes and Structures	2019	3	Department of Civil Engineering, Vignana Bharathi Institute of Technology	1

plasticity model						
Role of lightweight materials of construction on carbon dioxide emission of a reinforced concrete building	Kalyana Rama J. S.	Materials Today: Proceedings	2020	3	Department of Civil Engineering , Vignana Bharathi Institute of Technology	1
Seismic Response of UHPC Strengthened Reinforced Concrete Frame Using Concrete Damaged Plasticity Model	Kalyana Rama J. S.	Lecture Notes in Civil Engineering	2020	3	Department of Civil Engineering , Vignana Bharathi Institute of Technology	Nill
A Novel hybrid Deep Learning on Audio and Video Analysis	N.Srinivas	Journal In Advance Research in dynamical and Control Systems	2019	0	Vignana Bharathi Institute of Technology	Nill
Disambiguating the Context of the Concept Terms using Concept Hierarchies	raju Dara	International Journal of Innovative Technology and Exploring Engineering	2019	0	Vignana Bharathi Institute of Technology	Nill
Detecting Fake account on Social Media using Machine Learning Algorithms	K.Sreenivasa rao	International journal of Control and Automation	2019	0	Vignana Bharathi Institute of Technology	Nill
Hybrid CNN	P Venkateswara Rao	International	2019	4	Vignana Bharathi	Nill

assisted Computer aided diagnosis system for Glaucoma detection and classification:GlaucoNet		Journal of Innovative Technology and Exploring Engineering,			Institute of Technology	
Performance evaluation of energy efficient distance based LEACH Protocol for Wireless sensor networks	S Pothalaiah	TEST Engineering and Management	2019	2	Vignana Bharathi Institute of Technology	Nill
RF Energy Harvesting for Spectrum Management in Cognitive Radio Networks	Ch Suneetha	Advances in Decision Sciences, Image Processing, Security and Computer Vision	2019	1	Vignana Bharathi Institute of Technology	Nill
Fabrication of hoop-wound glass fiber reinforced plastic cylindrical shells using filament winding machine	PKishore kumar	Materials Today: Proceedings	2020	0	Vignana Bharathi Institute of Technology	Nill

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3.4.6 – 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
Strengthening RC frames	Kalyana Rama J. S.	Earthquakes and Structures	2019	5	2	Department of Civil E

subjected to lateral load with Ultra High- Performance fiber reinforced concrete using damage plasticity model						ngineering , Vignana Bharathi Institute of Technology
Role of lightweight materials of construction on carbon dioxide emission of a reinforced concrete building	Kalyana Rama J. S.	Materials Today: Proceedings	2020	5	6	Department of Civil Engineering , Vignana Bharathi Institute of Technology
Experimental investigation on bacterial concrete strength with Bacillus subtilis and crushed stone dust aggregate based on ultrasonic pulse velocity	C.Venkata Siva Rama Prasad	Materials Today: Proceedings	2020	4	2	Department of Civil Engineering , Vignana Bharathi Institute of Technology
Ownership Act of Registering and Land Account Event of Registration through the Medium of Block Chains	G.Sreeram	International Journal of e-collaboration	2019	2	Nill	Vignana Bharathi Institute of Technology

Advanced Encryption Standard and fuzzy enabled approach-based multi-level authentication for IoT security	Subhadra P	International Journal of Computer Science and Information Security (IJCSIS)	2019	1	Nill	Vignana Bharathi Institute of Technology
Comparative Analysis In Overall Energy Generation With Anti Reflection Coating Using MWCNT, Sio2, Tio2 On PV System And Priority Based Energy Management System.	K Neelima	International Journal of Emerging Technologies and Innovative Research	2020	4	Nill	Vignana Bharathi Institute of Technology
A 7-level Inverter with Multi-Carrier Pulse Width Modulation Technique for PV Systems	J N Bhanutej	International Journal of Innovative Technology and Exploring Engineering	2020	1	Nill	Vignana Bharathi Institute of Technology
GlaucoNet: A highly robust stacked auto-encoder assisted deep learning model for glaucoma detection system.	P Venkateswara Rao	International Journal of Intelligent Unmanned Systems	2019	9	1	Vignana Bharathi Institute of Technology
Influence	Dr. P. Kishore	Advances in	2020	3	Nill	Vignana Bharathi

of various tool path patterns on hardness in weld deposition based additive manufacturing	Kumar	Additive Manufacturing and Joining (Book Chapter)				Institute of Technology
Effect of pin geometry on material flow characteristics of friction stir welded dissimilar AA6061/AA2014 alloys	R Venkateswara Rao	Australian Journal of Mechanical Engineering	2020	2	1	Vignana Bharathi Institute of Technology

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	26	287	176	102
Presented papers	55	126	36	1
Resource persons	Nill	5	3	3

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
nil	nil	nil	0

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
nil	nil	nil	0	0

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3.6 – Extension Activities

3.6.1 – 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
Rural Immersion Training Program	NSS in association with MGNCRE	7	45
Blood donation camp	NSS in association with Lions club	6	300
Telangana Harithaharam programme	NSS	6	100
COVID-19 Relief project Rakshathi	Street cause VBIT	2	25
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3.6.2 – 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
Social activities	Exemplary social activities award by Dr. Tamilsai Soundarajan, Honorable Governor of Telangana	Samskruthi Foundation	500
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3.6.3 – 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
Awareness program	NSS unit VBIT along with Jameelapet village gram panchayath	Awareness program on Cleanliness Hygiene	4	35
Awareness program	NSS Unit VBIT along with Jameelapet village gram panchayath	Awarenesss program on Computer Education	4	28
Awareness Program	Street cause VBIT along with aushapur village gram panchayath	Awareness program on Plastic hazards	4	40
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3.7 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
nil	nil	nil	0

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3.7.2 – 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
Academy	Student Academy Program	MICROCHIP ACADEMIC PROGRAMME	15/07/2019	30/04/2020	III, IV ECE, EEE
Industry Institute collaboration	Industry Assessment	Cocubes	23/12/2019	31/03/2020	IV B.Tech
Industry Institute collaboration	Student Networking Academy	CISCO Netacad	15/07/2019	30/04/2020	II, III, IV B.Tech

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
TiE Hyderabad	03/04/2019	Entrepreneurship Development	250
CISCO Netacad	28/02/2019	Employability Enhancement through technical training	3250

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
32192030	27244817

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh)	Newly Added

during the current year	
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Newly Added
Seminar Halls	Newly Added
Classrooms with LCD facilities	Existing
Others	Newly Added
Laboratories	Existing

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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
ecap	Fully	3.0	2011

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	37256	12008076	507	202800	37763	12210876
Reference Books	8823	1238386	70	28000	8893	1266386
e-Books	208707	28076	5500	5900	214207	33976
Journals	2160	2626245	145	298000	2305	2924245
e-Journals	2700	3473779	175	572088	2875	4045867
Digital Database	1	40000	Nill	Nill	1	40000
Digital Database	3293	17500	55	5000	3348	22500
Digital Database	1	213000	Nill	13000	1	226000

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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
M.Mounika	Youtube channel	Youtube	07/08/2019
G.Mounika Reddy	Youtube channel	Youtube	08/10/2019

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Co	Computer	Internet	Browsing	Computer	Office	Departme	Available	Others

	mputers	Lab		centers	Centers		nts	Bandwidth (MBPS/ GBPS)	
Existing	1084	28	8	1	1	60	45	130	17
Added	6	0	0	0	0	10	15	900	0
Total	1090	28	8	1	1	70	60	1030	17

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

1030 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
Abhyasa- LMS	https://abhyas.vbithyd.ac.in/
ecap	http://103.232.129.196/ecap/

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
68902401	37869290	24899000	32593683

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)

Institute reserve approximately 710 (of the cost of instruments) budget for the purpose of maintenance and upkeep of the facilities like building, furniture, equipment, computers, vehicles etc. Central Facilities: Following Central facilities are being monitored centrally: Internet Canteen Transport Maintenance Hostel Healthy Centre Building Hygiene: Sweepers and a supervisor are allotted for a particular area. All the sweepers are required to sign in the register at the supervisor to confirm that he/she has done the duty. The supervisor should attest the same. Duties of Sweepers: Cleaning of class rooms, corridors, floor cleaning of laboratories, staff rooms and other areas allotted. Dusting of furniture and windows in the class rooms and also cleaning of glass boards. (However, dusting of departmental furniture/equipment/machines shall be done by department attenders and lab technicians.) Swabbing of corridors Clearing cobwebs in the corridors, class rooms and other areas, except department labs. Supervisors shall personally monitor the work and lock the class rooms after he is satisfied with the work Toilet Hygiene: Each toilet is to be cleaned four times a day, which should be checked by supervisor concerned. Care is taken in providing exhaust fans, daily cleaning with phenol or detergents, use of naphthalene balls. Class Rooms: Use of nondust chalks. Daily sweeping of class rooms. Wet cloth cleaning of benches (at least twice a week). Black board cleaning (with wet cloth daily). Provision of dust bins in each class room. Floors: Daily sweeping and cleaning with wet cloths to ensure dustfree surrounding. Provision of common dust bins at various locations in each floor. The following registers shall be maintained for the above: Requisition form and register Complaints register and file Laboratories – Maintenance Utilization: Preventive maintenance is followed. Periodical checkups and calibration of equipment in all laboratories to make sure smooth

conduct of all the lab hours. Depending on the experiment, one, two or a maximum of three students perform a single experiment with common set of apparatus. Additional experiments are designed to utilize all the equipment available in the lab. Stock verification is being conducted in all laboratories every year. Computing Facilities: Computing facilities are provided as per the AICTE norms, even extra computers are provided to meet the practical requirements. Internet connectivity with a total of 22 Mbps band width is provided. All the computer systems in the college are on LAN with OFC backbone. Computing facilities are made available to the students for at least 8 hours a day and WiFi enabled facility shall be provided. The number of computers to be made available will be as per the requirements. A team of technicians with a faculty incharge takes care for the maintenance of computers. Necessary Licensed software is procured. Servers like LINUX, WINDOWS, Web Servers, Database etc., are provided. Additional projects are taken up by the students for optimum utilization of the facilities

https://vbithyd.ac.in/infrastructure/

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Financial support in transport and tuition fee for weaker section students and financial support for participation in publishing papers and participating conferences	54	533000
Financial Support from Other Sources			
a) National	0	Nill	0
b)International	0	Nill	0
View File

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
Campus recruitment training scheme	10/12/2019	800	Path Creators
Oxford University English Certification Course	10/09/2019	828	Oxford University
Remedial Classes	24/02/2020	330	HS Dept, VBIT
Placement Readiness Program	18/01/2020	800	VBIT , Path creators

for 3rd B.Tech students			
Career Assessment Test for 4th B.Tech students	09/03/2020	650	Coocubes

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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
2020	Career Counseling	700	700	104	144

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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
11	11	7

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
9	700	106	20	700	38

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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
2020	104	B.Tech	ECE, CSE, IT, ME, EEE	University of Germany	MS

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GRE	80
TOFEL	24

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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
JNTUH Inter Collegiate Zone D Foot ball tournament	NATIONAL	372
JNTUH Inter Collegiate Zone D Basket ball tournament	NATIONAL	345
JNTUH Inter Collegiate Zone D Vollley ball Tournament	NATIONAL	350
JNTUH Inter Collegiate Zone D Table tennis Tournam	NATIONAL	265
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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	University representative-JNTUH All India Inter University Ball Badminton Tournament	National	2	3	B.Tech	Mr. Indra Kanth (III ME), Mr. Harishwar (II ECE), Mr. Jashuva (II ECE)
2020	Association of Indian Universities played at Punjabi University, Patiala, Punjab	National	2	3	B.Tech	Mr. Bhairv Singh (II CSE
2020	All India Radio Music Competition	National	2	3	16P61A04J0	Mr. P.Abhishek
2020	7th International Yoga Championship 2020 at Bali, Indonesia	International	2	3	B.Tech	Ms.P.Swathi
[View File](#)						

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

The policies and strategies of the institution which promote participation of students in extracurricular and cocurricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc. 1. Establishment of Student Activity Center (SAC) College has established 22 student forums under Student Activity Center (SAC). SAC is having the following facilities: Separate bank account for each forum Exclusive faculty coordinator for each forum Exclusive meeting room with LCD, AC, Computer systems and Wifi connectivity Exclusive supporting staff STUDENT ACTIVITY CENTRE: 1. IEEE Student Branch 2006 2. IETE Student Forum 2008 3. ECE Branch Association 2008 4. CSE IT Branch Association 2008 5. EEE Branch Association 2008 6. MECH Branch Association 2011 7. Management Aptitude Club (MBA) 2008 8. CIVIL Branch Association 2013 9. Women in Engineering (IEEE) 2011 10. Computer Society Chapter (IEEE) 2011 11. Power Electronics Society(IEEE) 2011 12. Communication Society (IEEE) 2011 Due consideration in respect of attendance for students participating in important literary, cultural or sports events outside the college. Provision of sports kit/sport uniform to all the participants Conducts inter collegiate tournaments, cultural competitions by organizing state level fest known as XYLYX, AVISHKAR, and VIBHA every year. Conducts coaching camps to enhance their capabilities in sports and games events. Honoring all the winners/JNTUH team members with special appreciation on annual day Various "Awards" are given in the tournaments and competitions conducted in and outside the college Extra support in academics: Additional academic support is provided for all those students participating in extra curricular activities in the form of arranging compensation classes. Faculty in charge of the respective forum maintains the record of classes which students could not attend and due consideration is given in respect of attendance for the students participating in important literary, cultural or sports events outside the college. When the dates of Inter University events are clashing with the time table of internal examination, as per the guidelines of University, College conducts reexamination for the concerned students. 1. Fulfillment of requirement: College provides sports uniform to all the students participating in the intercollegiate/inter University events Provides Sports Track Suit to students for participating in major tournaments. Encourages participation in inter collegiate tournaments conducted in Volleyball, Basketball, Tennis, TableTennis, Athletics etc., Presents merit certificates and mementoes to winners and runners in intramural competitions for boys girls at College Annual Sports Day celebrations. Encourages participation in cocurricular activities. Provides TA, DA to students participating in extracurricular and co curricular activities such as sports, games, Quiz competitions, debate etc

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

VBIT Alumni Association (Reg. No. 462/2013) The greatness of the institute lies in spreading their students throughout the world. It is also important that the institute keeps student and faculty family in a closed net so that the knowledge is shared all the time and in future times to come. The institutional strength gets multiplied through this global net with the support provided. V.B.I.T believes this concept and hence building its Alumni. The students from abroad/other parts of the country are sharing their strengths to the institution with full affinity. In order to keep all the strings in the proper form couple of smart faculty and students were identified as a Alumni team leads with an Email link for correspondence on 24/7 basis. The institute has excellent database for Alumni and all for its functions. The Email link is

Email ID: alumini@vbithyd.ac.in Alumni meet is conducted once in a year. A profile book of Alumni is being released every year institution network and collaboration with the Alumni : Institute has a registered Alumni Association, which conducts an annual meeting The members of Alumni Association are regularly interact with Principal, Vice Principal and TPO regarding the need of the Institute and their expectations from alumni The members of college administration and the senior faculty of all the departments participate in the annual or semiannual alumni meetings on invitation and seek their advice and support for the development of the institution. The Departments seek the opinion / suggestions of alumni on various developmental activities by sending mails to them and requesting them to fill the pro forma supplied in this regard. An alumni portal is created in the college website for better interaction between the college and alumni. The members of various professional bodies and technical forums invite alumnus in workshops and seminars as resource persons

5.4.2 – No. of registered Alumni:

400

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

15000

5.4.4 – Meetings/activities organized by Alumni Association :

Periodic interactions with alumni are organized by various student forums. The suggestions given by alumni play an important role while designingthe policies at different levels

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)

Governing Body, the highest body of policy making, meets periodically to discuss various issues and aspects related to the development of the college. It includes considering and approving the institution strategic plan which sets the academic aims and objectives of the institution and identifies the financial, physical and staffing strategies. Governing body considers the recommendations of various Department Advisory Committees (DAC) College Academic Council (CAC) and it chalks out a road map to achieve the goals of the institute College academic council is formed to discuss the academic matters of the college. Members of the council give their suggestions and directions for thesmooth running of the college in academic aspect Dean Directors: To help the Principal in his administration, college identified four broad areas for academic and administrative excellence and each area is headed by a Director.Apart from this, institute has appointed a Dean to help in setting up proper academic administrative structure Major functional areas of Dean are as follows: 1. Training awareness about proposed Autonomous status 2. Strengthening of examination section 3. Strengthening the functional units like Central Library Hostel There are four Directors, namely i) Director – Academics ii) Director – Internal Quality Assurance Cell (IQAC) iii) Director – Student Activity Centre (SAC) iv)Director – Research and Development (RD) Departmental Advisory committee: The Institute has constituted Department Advisory Committees for each branch of Engineering .The Committee Consists of Principal, Head of the Department,senior faculty member in the Department and two experts from Industry. The DAC gives guidelines related to following areas Program Educational Objectives and Program Outcomes Academic plans preparation by faculty members for their respective courses allotted by the Department Thrust

areas to conduct Co Curricular activities Topics beyond the syllabus and additional experiments to meet PEOs andPos Functioning of Centre of Excellence/Incubation Centre

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

Yes

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Human Resource Management	The institute has excellent strategies/ norms for Human resource Management. It ensures that • Payroll is as per norms • Time and Attendance are monitored on a daily basis • Performance record is maintained • Performance appraisal is conducted • Faculty and Staff recruitment are always based on merit. • Seminars / trainings are conducted to train the newly recruited faculty • Micro-teaching workshops are conducted for the new faculty • Several internal workshops are held to train the faculty and staff to enable them to update their knowledge. • IQAC creates awareness among faculty regarding quality initiation.
Curriculum Development	Afetr getting Autonomous status from UGC , Institute has started designing its curriculum. It has evolved an executive mechanism to address this issue and formed Board of Studies (BoS)in each Department.as the guidance of UGC to strengthen the teaching learning process for fulfilment of Program Outcomes of the respective Department Board of Studies (BoS) consists of Principal,HOD, Senior Professor and two experts from Industry and Academia.
Teaching and Learning	Institute has developed well thought teaching learning process and twofold evaluation process: Preparation, Execution and assessment of Academic plan is the most striking feature of the teaching learning process adopted by the Institute. Faculty members prepares an academic plan (based on prescribed format) for their respective courses before commencement of the semester. They present these plans in presentation session and explain their strategy to deal with a course. Head of the Department and senior professors modify this plan if required. the plan

	contains course outcomes, mapping of the COs with POs and PSOs, add on content to bridge the curriculum gaps, lecture schedule and delivery plan, assignments and tutorial questions etc. Teachers are encouraged to use innovative methods for effective delivery of curriculum like creating their own blogs, creation of interactive groups and virtual discussion forums. IQAC has developed a full proof mechanism to check the quality and timebound delivery of all academic activities in the Institute
Examination and Evaluation	Periodic Evaluation forms the backbone of entire teaching learning process Administration, Students, faculty members and parents are four important stakeholders of this process Academic section of which the Examination branch is an integral part, is always in contact with JNTUH regarding rules and regulations of the evaluation process Evaluation takes place at two levels: Internal and External The general rules are published in the handbook of the Institute Changes in the rules are informed to faculty members in the Departmental or central meetings or by circulars. Students are informed about the same by displays on notice board and website.SMS alerts are send to parents through ECap portal The result of evaluations are made available on ECap Students can assess the information regarding their performance through login facility on ECap Training and Placement Cell keep the track of academic record of the students for placement assistance to them Mentors are advised to use the information (performance of the student) available on ECap while counseling the respective student. Salient features of this process are: Two phases of evaluationInternal and External Distribution of marks25 and 75 Assignments are evaluated as Internal evaluation Mini and Major projects are also evaluated on Internal and External basis
Research and Development	The Institute has established its exclusive research development centre in the year 2010 with a view to promote research activity in all the Departments and to spread research

	culture among staff and students. Jawaharlal Nehru Technological University (JNTUH) has recognized VBIT as a Research Centre in Space Physics in the year 201112. There are two major research projects (~ 65 lakhs) sponsored by Indian Space Research Organization (ISRO) which are completed by the research centre in association with various Engineering Departments. Two fulltime Research scholars have completed while two are pursuing their Ph.D. work under various projects. One postdoctoral Fellow is associated with the Centre. Mini Boundary Layer Mast (MBLM) set up by ISRO, A dual frequency receiver which operates in L1 and L2 bands (1.2 to 1.5 GHz frequency) with GPS antenna installed by NARL, Project labs, Multidisciplinary research lab sponsored by DST under FIST program are the various research facilities available at Institute
Library, ICT and Physical Infrastructure / Instrumentation	All the Departments and all the computer labs are provided with internet facility. The college has 10 WiFi enabled zones. Each Department has an exclusive well equipped seminar hall and eclassroom. Library is having interactive portal through which students and faculty members can access any required information. Availability of teaching aids like OHP, LCD projectors, Internet enabled computer systems. Availability of computer software packages for analysis and experimental work of the projects of the students Faculty members prepare and upload the academic plan of their respective subject(s) on ECAP which can be accessed by students of the respective class Many faculty members' gives assignments and tutorials online to the students along with the list of the topics covered in that particularunit and also hints to solve problems.
Admission of Students	Admissions are made as per rules / guidelines prescribed by the Telangana State Council of Higher Education (TSCHE) and JNTUH.. 70 percent seats are filled by the EAMCET/ICET Convener as per TS Government rules. 30 percent of seats are filled by the management only on merit basis. Seats are open for all eligible candidates including candidates belonging to other states

	and Union Territories of India and NRIs, who are qualified in EAMCET and those who are not qualified in EAMCET but are having 50 in aggregate in 12th standard having the subjects of Maths, Physics, Chemistry are eligible for the Admission.
Industry Interaction / Collaboration	Various industry sponsored labs were established: CISCO Networking academy, Auto Desk, Microchip Academic program, SAP student Academy program, Sales force, Dell EMC, UI path, Amazon web services, Service now etc

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

E-governace area	Details
Planning and Development	ECAPEcap is an exclusive facility ?To monitor students' attendance, ?Maintain a record of performance ?Accessing the biometric attendance of all the faculty members?Maintaining the inventory of all the central facilities of the college
Administration	ECap Maintains administration record of all employees of the institute.
Finance and Accounts	Ecap maintains Finance and Accounts details regarding fee collection from students and salary payment for employees
Student Admission and Support	Ecap maintains admission data of students perfectly
Examination	Ecap maintains the examination results data of students

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr.K.Shirish Kumar	International Conference on Transformation in Engineering Education	–	3000
2019	Dr.S.Krishna Rao	International Conference on Transformation in Engineering Education	–	3000
2019	Dr.Jayant Kulkarni	International Conference on	–	3000

Year		Title of the Department			
		Transformation in Engineering Education			
2019	Mr.V.Sridhar Reddy	International Conference on Transformation in Engineering Education	-		3000
2019	Mr.G.Anil Kumar	International Conference on Transformation in Engineering Education	-		3000
2019	Mr.K.Naresh Kumar	International Conference on Transformation in Engineering Education	-		3000
2019	mr.S.Rajesh	Workshop on Artificial Intelligence	SSOHAM		1180
2019	Ms.P.Swetha	Workshop on Artificial Intelligence	SSOHAM		1180
2019	Ms. N. Indira Priyadarsini	Workshop on Artificial Intelligence	SSOHAM		1180
2019	Dr.K.Neelima	International Conference on Transformation in Engineering Education	-		3000
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6.3.2 – Number of professional development / administrative training programmes organized by the Colleges 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	guest lecture on "Ways to Improve Mental Health"	guest lecture on "Ways to Improve Mental Health"	19/09/2019	19/09/2019	200	80
2019	World Youth Skills Day Celebratio ns	World Youth Skills Day Celebratio ns	15/07/2019	15/07/2019	105	45

2019	Faculty Development Program on Additive Manufacturing Technology with hands on approach of 3D printing	Faculty Development Program on Additive Manufacturing Technology with hands on approach of 3D printing	26/07/2019	27/07/2019	50	12
2019	one week workshop on Building Information Modeling using Autodesk Revit software	one week workshop on Building Information Modeling using Autodesk Revit software	03/08/2019	10/08/2019	128	6
2019	Department of EEE has organized a workshop on Electrical Cad	Department of EEE has organized a workshop on Electrical Cad	07/08/2019	08/08/2019	120	4
2019	Department of Mechanical Engineering has organized 05 day workshop from 12th to 17th August 2019 on 2D Modeling AutoCAD as a part of Centre of Excellence by Autodesk	Department of Mechanical Engineering has organized 05 day workshop from 12th to 17th August 2019 on 2D Modeling AutoCAD as a part of Centre of Excellence by Autodesk	12/08/2019	17/08/2019	100	4
2019	02 day hackathon from 13-14 August 2019 on	02 day hackathon from 13-14 August 2019 on	13/08/2019	14/08/2019	54	3

	Additive Manufacturing Technology (3D Printing)	Additive Manufacturing Technology (3D Printing)				
2019	Department of ECE has organized 04 day workshop on CCNA, RS, and Introduction to Networks as a part of CISCO Netacad	Department of ECE has organized 04 day workshop on CCNA, RS, and Introduction to Networks as a part of CISCO Netacad	13/08/2019	17/08/2019	58	3
2019	Department of Information Technology has organized 03 day workshop on Data Science Big Data Analytics from 19th to 21st August 2019 as a part of Centre of Excellence by Dell EMC	Department of Information Technology has organized 03 day workshop on Data Science Big Data Analytics from 19th to 21st August 2019 as a part of Centre of Excellence by Dell EMC	19/08/2019	21/08/2019	69	8
2019	Department of CSE has organized 02 day workshop on Data Science Big data Analytics using R Language	Department of CSE has organized 02 day workshop on Data Science Big data Analytics using R Language	23/08/2019	24/08/2019	200	9
			[View File](#)			

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
3 days course workshop on "Research Methodology"	1	16/07/2019	18/07/2019	3
NPTEL Workshop and played instrumental role as SPOC for the SWAYAM-NPTEL Local Chapter.	1	26/07/2019	26/07/2019	1
Workshop on Quality Enhancement Measures in Higher, Technical, Professional and Management Educational Institutions with Special focus on NIRF India Rankings	1	18/10/2019	19/10/2019	2
Seminar on Total Quality Assurance for Administration of Higher Education Institutions	1	04/12/2019	04/12/2019	1
Workshop on High Accuracy, High Performance Computing of Fluid Flows	1	30/12/2019	03/01/2020	4
International Conference on Transformations in Engineering Education	10	24/01/2020	25/01/2020	2
Networking Academy India Instructor Conference	4	28/01/2020	29/01/2020	2
Two Day Workshop on	3	27/01/2020	28/01/2020	2

"Data Science Deep Learning"				
Workshop on Artificial Intelligence	2	18/10/2019	18/10/2019	1
Two Day FDP on Blockchain Technology	3	20/09/2019	21/09/2019	2

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
240	240	142	142

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Employee Provident Fund, Group Medical Health Insurance, Subsidised Transportation and Free Transportation during beyond working hours,Yoga with meditation hall, Purified Mineral water across the campus, Health Centre	Employee Provident Fund, ESI, Group Medical Health Insurance, Subsidised Transportation and Free Transportation during beyond working hours,Purified Mineral water across the campus, Health Centre	Group Personal accidental Policy for all the students, Subsidised Transportation and Free Transportation during beyond working hours, Yoga with Meditation hall, Purified Mineral water across the campus, Health Centre, Canteen Service with subsidised Rates, Aid for the Students Participating in overseas conference

6.4 – Financial Management and Resource Mobilization

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

Every year, internal audit will be conducted by the committee appointed by the principal. After thorough verification, committee will submit their appraisals to the principal for follow up action. College accounts will be audited by the qualified chartered accountants. No major audit objections are identified. Institution has well defined mechanism to monitor effective and efficient use of available resources. College obtains proposals from concerned Departments/Units in which all the teaching and non teaching members of the Department/Unit a r e involved. 1. Purchase and central store section of the Institute headed by senior faculty member,collects all the purchase proposals with quotations and comparative statement. It preparesthe consolidated proposal and submit it to governing body for approval 2. After assessing t h e p r o j e c t e d income for an academic year, governing body allocates budget to each Department and Institution with minute details. While doing so, through discussion will be made in governing body for prioritizing and transparency. The draft of allotment of budget submitted to Governing Body for its approval. 3. Purchases will be made with the recommendations of duly constituted purchase committee. The amounts withdrawn from the banks will follow a systematic mechanism of obtaining the signatures of the cashier, AO, Head Purchase Committee, 4. Principal, Secretary and Chairman. In case of out of budget expenditure, ratification will be done in a special meeting conducted. In every

meeting, Principal presents the Income and Expenditure details. Governing body allocates any additional bud get required. 5. Purchase and central store section has laid down specific guidelines related to Purchase ,servicing, maintenance and stock keeping of the instruments, equipments andfurniture items 6. Purchase and central store section also monitors the stock verification process at the end of each academic year 7. Guide lines regarding the Purchase ,servicing, maintenance and stock keeping

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
nil	0	nil

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6.4.3 – Total corpus fund generated

245002930

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	NBA, New Delhi	Yes	IQAC
Administrative	Yes	NBA, New Delhi	Yes	Finance Officer

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

1. Setting up of proper counseling mechanism 2. Support in extra curricular activities 3. Out reach programs

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

1. Training program on professional domains 2. Quality improvement program 3. Career enhancement scheme

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

1. Establishment of SHODH incubation and innovation center 2. Establishment of center of excellence with Amazon web services and Microchip academy AI. 3. Up-gradation of faculty knowledge to suit industry needs by incorporating emerging technologies like AI,ML, Data Sciences, Internet of Things, 3D Printing etc 4. Revision of curriculum for UG PG courses as per AICTE model curriculum

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	Establishment of Industry Institute interaction Cell	15/07/2019	15/07/2019	30/07/2020	50
2019	Introduction of PLA and its effective execution in first batch under Autonomous status	02/09/2019	02/09/2019	31/08/2020	828
2019	Reforms in preparation and presentation mechanism of Academic Plans	01/07/2019	15/07/2019	30/07/2020	240
2019	More decentralization in Administration with Registrar as a head	09/09/2019	09/09/2019	31/08/2020	30
2019	Syllabus review mechanism through working groups	20/01/2020	27/01/2020	06/03/2020	70
Nill	Guest lecture on "Ways to Improve Mental Health"	19/09/2019	19/09/2019	19/09/2019	500
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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
Women's day celebrations	07/03/2020	07/03/2020	200	28
Economic	20/01/2020	31/01/2020	365	443

empowerment of women, Gendered arrangements of work and care, Freedom of movement. Group Discussion conducted by the English Teaching Faculty				
Poster Presentation on Gender issues by students	20/01/2020	31/01/2020	185	155
Project work: study gender issues and make presentations	20/01/2020	31/01/2020	250	187
Is gender a social and cultural construct? Oral Presentation by the English Teaching Faculty	20/01/2020	31/01/2020	365	443

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
60

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	3
Provision for lift	Yes	3
Ramp/Rails	Yes	3
Rest Rooms	Yes	3
Scribes for examination	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	4	4	04/11/2019	1	Awareness campaign	Awareness campaign by ECE	57

						students on plastic hazards and village survey was conducted at Jameel apet village	
2019	4	4	07/11/2 019	1	Awareness campaign	Awareness campaign on village s anitation and clean liness	54
2020	4	4	04/05/2 020	1	COVID-19 Relief project Rakshathi	Street Cause – VBIT, as part of our COVID-19 Relief project Rakshathi have donated groceries worth Rs.20,000 to the residents of Takkel lagudem village, Naarlapur gram panc hayat, Ja yashankar Bhupalapa lly dist like basic groceries like rice, dal etc	21
2020	4	4	20/02/2 020	1	Rural Immersion Training Program	NSS coo rdinators take part in the two-day Rural	100

						Immersion Training Program organised by MGNCRE by taking up Swachhata activities in Aushapur.
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Core values of VBIT	15/07/2019	Orientation program in association with Ramakrishna mission
VBIT Policy Book 2019	08/07/2019	VBIT Policy Book 2019 is a revised version of Code of Conduct meant to employees working in the institute
Student hand Book 2019	03/12/2019	Student Hand Book 2019 will be revised every year in which Code of Conduct meant to students of the institute along with other guidelines.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Independence Day Celebrationsto inculcate the thoughts of patriotism	15/08/2019	15/08/2019	800
Republic Day Celebrations to inculcate the thoughts of patriotism	26/01/2020	26/01/2020	1200
Blood Donation camp	30/10/2019	30/10/2019	400
COVID-19 Relief project Rakshathi	04/05/2020	04/05/2020	21
Rural Immersion Training Program	20/02/2020	20/02/2020	100
Telangana Harithaharam programme	30/08/2019	30/08/2019	200
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Banned one time plastic usage 2. Constructed rain water harvesting pits 3.Plantation drives 4. Solar plant installation 5. Constructed sewage treatment plant 6. Green landscaping 7. Installation of Vapra- The composter 8. Installation of Fuel free ecosystem

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. AVISHKAR The event "AVISHKAR" was first introduced in Vignana Bharathi Institute of Technology with the sole purpose of eradicating the age – old myth of stage – fear! Along with various other benefits such as communication skills, body language, and general knowledge, thereby focusing over all individual growth, this event has acclaimed an appreciable nod from the whole of the R10 region and even at global level. The event which first started out as an intra – college bout, is now a state level competition with various institutions battling over to win this prestigious antagonism. Event Description: Avishkar is a paper presentation competition held exclusively for the first– B. Tech students. Every year it is conducted on 25th January (primary round) and 26thJanuary (final round). About 400450 students (200225 teams) participates in this event and presents various technical topics in various groups. Awards are given to top ten teams The competition is of two phases, intra and inter. Firstly, the event flags off with the intra – college event. Top three teams from VBIT will be selected and given an opportunity to compete against the other colleges. This activity serves as an effective alternative to the freshers party which is seen in any Engineering College and sometimes create a lot of disturbance in the campus. Senior students wholly organize this event for the new comers. This activity helps to hunt the talent and leadership qualities among the students in a great way. Rising number of participants every year proves the popularity of the event .Media has taken appropriate cognizance of this event and given wide publicity This activity has received an appreciation from IEEE at International level in the form of Darrel Chong Student activity award in the year 2012. This activity find a place in a special article on "IEEEVBIT student Branch" published in an International publication "IEEE Potential" (Volume32,Issue4,August2013) http://ieeexplore.ieee.org/stamp/stamp.jsp? tparnumber6565457tag1 (http://ieeexplore.ieee.org/stamp/stamp.jsp? tparnumber6565457tag1) 2. Audio Visual Classes, Student Seminars and Value Added Programs: 36 hours out of 42 hours per week are required to follow University curriculum. Since 201112 the Institute designed a program to utilize remaining 6 hours more effectively. The outline is as follows: 2 hours /week AV Classes and Library/Incubation Centre 2 hours /week Value Added programs(Communication/soft/Technicalskills) 2 hours /week Sports3 slots/month and Seminar1 slot/month AV Classes: To support the understanding of theory subjects, the provision of Audio Visual classes (two hours per week) is playing very significant role.Each Department identifies few subjects where multimedia presentations on various topics help students to understand that subjects with better depth and knowledge. Each class is having one faculty coordinator for AV sessions. Main Library is having 4 AV rooms where these sessions are conducted Pre prepared Audio Visual lessons by concerned faculty members are shown to the students during these sessions. Impact: This activity helps student to understand the subject with more depth and knowledge Use of unusual, innovative and up to date resources makes the teaching Learning process more dynamic 2)Seminars: 3 hours per month are allotted for class seminars during which 20 students has to give presentation on various technical topics One faculty member allotted to each class as a seminar incharge who in turns prepares entire schedule of a semester (34 rounds of seminars/semester) Seminar incharge and/or senior faculty members who attends this seminar evaluate the performance of the students and write their

remarks in seminar evaluation book of the class Impact: This activity helps students to improve their presentation skills Students having average or below average capacity gets good exposure to various resources since they have to prepare and present their topics independently. Pre and post seminar discussion between students and faculty members helps to develop interpersonal relations which may affects on overall performance of the students Value Added Programs (VAP): Institute and Departments design various need based programs to develop Communication and Technical skills of the students. The details are as follows: Collaborative programs with industry sponsored labs: 1. Signed MoU with the following and established facilities for global certifications: Amazon web services academy for students certification on AWS fundamentals and architecture Uipath for certification on robotic process automation Service now for business application development 2. Established center of excellences with the following industry partners: Dell EMC. EMC Data science associate certification on bigbata and analytics Auto Desk Fusion 360 Auto Desk Revit Architecture 3. Established Industry Sponsored academies with the following: SAPABAP student academy program CISCO networking academy Microchip to deliver certified courses on embedded and IoT technologies Salesforce academy for training developers called Trailblazers 4. Established Incubation center and start up ecosystem in collaboration with the following: Exclusive innovation and incubation cell Institute Innovation Council (IIC) Ministry of Human Resiurce Development (MHRD), Govt. of India has established MHRDs Innovation cell (MIC) ISBTEP (Indian school of Business Technology Entrepreneurship Program) TiE Hyderabad Education start up learning JNTUH Innovation hub (JHub) Impact: With these value added programs students are exposed to the latest trends and technologies and making them move towards industry requirements by the way of global certifications and working in centre of excellences established by reputed industries. Apart form this, students are motivated towards entrepreneurship by making students interact with industry mentors for better ideations, participating in hackathons and be part of national and international organizations for better guidance.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link
https://vbithyd.ac.in/wp-content/uploads/2020/02/Best-practices.pdf

7.3 – Institutional Distinctiveness

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

Academic Excellence "Outstanding" is what our students rate our efforts in nurturing versatile, all round development including organizational and leadership qualities. In VBIT, the management, administration and the faculty members strive for this and go beyond teaching, in an effort to redefine academic excellence. As the educational system is getting more and more student centric, it is the duty of every institute to ensure appropriate standards for Teaching and Learning Process. As a part of this process the students are motivated to match their standards to the industrial and societal needs. The meticulously well defined student centric system has the following objectives at its core to emerge as a hub for engineering excellence to achieve engineering education that is on par with the industry requirement to facilitate state of theart teaching facilities to train students in emerging technologies to set up and maintain State of the Art Laboratories to create department wise with incubation centers to provide training in emerging technologies through "Training and Placement Cell" to empower the student community through "Students Activity Centre" (SAC) While the institute puts the students to higher degree of learning through this approach of beyond the text book, the students are provided full freedom to develop the capabilities and

qualities in handling several activities of the professional bodies like IEEE, IETE, IEI, CSI etc. VBIT follows certain specific approaches by drawing greater opportunity to the students for conducting student seminars, presenting papers,project developments, development of working models etc. As part of this the students are encouraged to present papers in some specific forums right from their I B.Tech. days. Similarly, there are number of forums for the other students to conduct and to participate in seminars in and outside the college. The institute ensures at least one opportunity to every student in a given academic semester. In order to ensure that the vision of the institute is realized, a separate Student Activity Centre, thoroughly managed by the students, is set up. In addition to the Student Activity Centre the cocurricular activities also take an equally important role at VBIT. Therefore, VBIT has bagged several awards for their students in a number of forums at state, national and international levels. There are separate clubs for each of these functions and thus provide an excellent opportunity and awareness to every student at VBIT In a sense VBIT ensures the overall development of the student as above with appropriate standards as per the current market requirements, in addition to the best possible efforts in Teaching and Learning Process. The following are the activities handled by the students during each semester lonely the Student Activity Centre. Established 13 various forums under SAC in 200607 and now increased to 22 forums. Separate Bank Account for each forum Meeting of the student coordinators at the beginning of every Academic year to discuss the plan and budget of the activities during the year Providing complete autonomy to the members in planning and executing various academic, technical and cocurricular activities

Provide the weblink of the institution
www.vbithyd.ac.in

8.Future Plans of Actions for Next Academic Year

1. After receiving the autonomous status, institute is now focusing on to convert academic flexibility into various student centric programs 2. Strengthening of the courses and syllabus with latest trends in technology 3. To establish exclusive laboratories and centers of excellence in association with various industries