



Yearly Status Report - 2019-2020

Part A

Data of the Institution

1. Name of the Institution		VISHNU INSTITTUE OF TECHNOLOGY
Name of the head of the Institution		Dr D Suryanarayana
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		08816251333
Mobile no.		9949433588
Registered Email		info@vishnu.edu.in
Alternate Email		de@vishnu.edu.in
Address		Vishnupur
City/Town		BHIMAVARAM
State/UT		Andhra Pradesh
Pincode		534202
2. Institutional Status		

Autonomous Status (Provide date of Conformant of Autonomous Status)	28-Feb-2019																		
Type of Institution	Co-education																		
Location	Rural																		
Financial Status	private																		
Name of the IQAC co-ordinator/Director	Dr. D. J. Nagendra Kumar																		
Phone no/Alternate Phone no.	08816251333																		
Mobile no.	9959906809																		
Registered Email	de@vishnu.edu.in																		
Alternate Email	info@vishnu.edu.in																		
3. Website Address																			
Web-link of the AQAR: (Previous Academic Year)	https://vishnu.edu.in/naac/AQAR2018-19.pdf																		
4. Whether Academic Calendar prepared during the year	Yes																		
if yes,whether it is uploaded in the institutional website: Weblink :	http://vishnu.edu.in/AcademicCalender.php																		
5. Accrediation Details																			
<table border="1"> <thead> <tr> <th rowspan="2">Cycle</th> <th rowspan="2">Grade</th> <th rowspan="2">CGPA</th> <th rowspan="2">Year of Accrediation</th> <th colspan="2">Validity</th> </tr> <tr> <th>Period From</th> <th>Period To</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>A++</td> <td>3.51</td> <td>2020</td> <td>01-Jan-2020</td> <td>31-Dec-2024</td> </tr> </tbody> </table>						Cycle	Grade	CGPA	Year of Accrediation	Validity		Period From	Period To	2	A++	3.51	2020	01-Jan-2020	31-Dec-2024
Cycle	Grade	CGPA	Year of Accrediation	Validity															
				Period From	Period To														
2	A++	3.51	2020	01-Jan-2020	31-Dec-2024														
6. Date of Establishment of IQAC			05-Mar-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															
Workshop on Writing Effective Research		19-Feb-2020 1		4															

Proposals		
INSPIRE-IMPACT-INTROSPECT LEVEL 1	11-Sep-2019 3	4
INSPIRE-IMPACT-INTROSPECT LEVEL 1	22-Oct-2019 3	7
INSPIRE-IMPACT-INTROSPECT LEVEL 2	28-Jan-2020 3	7
PROGRESSION WORKSHOP	30-Nov-2019 1	7
SLIDE-2 Workshop	30-Oct-2019 3	5
SLIDE-2 Workshop	28-Jan-2020 3	3
IIT WORKSHOP	21-Jan-2020 3	4
ILEA WORKSHOP	26-Jun-2019 4	38
ILEA WORKSHOP	03-Mar-2020 4	39
View File		

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
Dr. D. Suryanarayana	CSI	DST	2013 3	24.65
Mrs. M. Srilakshmi	WOSA	DST	2013 3	25.1
Dr. K. Hima Bindu	FTP	SERB	2015 3	34.42
DR. N. Padmavathy	SSB	NRB	2019 2	18.29
Dr. K. Ganga Raju	DST	DST	2019 3	28.97
Dr. R.V.D. Rama Rao	MODROBS	AICTE	2020 2	13.44
View File				

9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

[View File](#)

10. Number of IQAC meetings held during the year :

4

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes								
Upload the minutes of meeting and action taken report	View File								
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No								
12. Significant contributions made by IQAC during the current year(maximum five bullets)									
Course Curriculum Design									
OBE									
Student Learning in Instructional Design (SLIDE)									
Writing Effective Research Proposals									
Design of Experiments									
View File									
13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year									
<table border="1"> <thead> <tr> <th>Plan of Action</th> <th>Achivements/Outcomes</th> </tr> </thead> <tbody> <tr> <td>Number of Placement should be improved</td> <td>Got offers in total for this academic year passedout students</td> </tr> <tr> <td>Introduction of New BTech Courses</td> <td>Applied to AICTE for introduction of new BTech courses in Artificial Intelligence and Data Science (AI&DS) and Computer Science and Business System (CS&BS)</td> </tr> <tr> <td colspan="2" style="text-align: center;">View File</td> </tr> </tbody> </table>		Plan of Action	Achivements/Outcomes	Number of Placement should be improved	Got offers in total for this academic year passedout students	Introduction of New BTech Courses	Applied to AICTE for introduction of new BTech courses in Artificial Intelligence and Data Science (AI&DS) and Computer Science and Business System (CS&BS)	View File	
Plan of Action	Achivements/Outcomes								
Number of Placement should be improved	Got offers in total for this academic year passedout students								
Introduction of New BTech Courses	Applied to AICTE for introduction of new BTech courses in Artificial Intelligence and Data Science (AI&DS) and Computer Science and Business System (CS&BS)								
View File									
14. Whether AQAR was placed before statutory body ?	No								
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No								
16. Whether institutional data submitted to AISHE:	Yes								

Year of Submission	2020
Date of Submission	19-Feb-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	Partially Implemented. PACT is an ERP System for Financial Data Processing ECAP is for Student Administration System VTIMES is for Academic Data of Students and Students Exam Marks Processing VishnuPay WebApp is for students payments of college and hostel fees vishnuplacements is for CRT training CRT Performance Monitoring grammarexpert is to train students in English Grammar and their performance Monitoring

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	ME	Mechanical Engineering	08/06/2019
Mtech	AMFS	Advanced Manufacturing Systems	08/06/2019
BTech	CE	Civil Engineering	25/05/2019
BTech	CSE	Computer Science & Engineering	12/06/2019
Mtech	CSE	Computer Science & Engineering	12/06/2019
BTech	IT	Information Technology	12/06/2019
BTech	ECE	Electronics & Communication Engineering	25/05/2019
BTech	EEE	Electrical & Electronics Engineering	25/05/2019
Mtech	DECS	Digital Electronic & Communication Systems	25/05/2019
Mtech	EPE	Electrical Power	25/05/2019

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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	Civil Engineering	09/12/2019	Total Station Workshop	15/12/2019
BTech	Electrical & Electronics Engineering	09/09/2019	Programmable Logic Controllers	14/09/2019
BTech	Electrical & Electronics Engineering	19/08/2019	Battery Technology	24/08/2019
BTech	Electrical & Electronics Engineering	13/01/2020	Lab View	18/01/2020
BTech	Mechanical Engineering	24/02/2020	Hands on Experience in Maintenance and Troubleshooting of Refrigeration and Air Conditioning Systems	25/02/2020
BTech	Mechanical Engineering	26/06/2019	3D Experience (skill development)	25/07/2019

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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
Nil	NIL	Nil

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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	Computer Science Engineering	10/06/2019
Mtech	Computer Science Engineering	23/09/2019
BTech	Civil Engineering	10/06/2019
BTech	Electrical & Electronics Engineering	10/06/2020
Mtech	Electrical & Power	23/09/2020

	Engineering	
BTech	Electronics & Communication Engineering	10/06/2019
Mtech	Digital Electronics & Communication Systems	23/09/2019
BTech	Information Technology	10/06/2019
BTech	Mechanical Engineering	10/06/2019
Mtech	Advanced Manufacturing Systems	23/09/2019
BTech	Computer Science Engineering	18/11/2019
Mtech	Computer Science Engineering	17/02/2020
BTech	Civil Engineering	18/11/2019
BTech	Electrical & Electronics Engineering	18/11/2019
Mtech	Electrical & Power Engineering	17/02/2020
BTech	Electronics & Communication Engineering	18/11/2019
Mtech	Digital Electronics & Communication Systems	17/02/2020
BTech	Information Technology	18/11/2019
BTech	Mechanical Engineering	18/11/2020
Mtech	Advanced Manufacturing Systems	17/02/2020

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
The Joy of Computing using Python (NPTEL)	31/07/2019	65
Manufacturing of Composites	08/01/2019	8
Joy of Learning Python	06/01/2019	4
Concepts of Thermodynamics	24/10/2019	4
Fundamental of Welding Science And Technology	15/01/2020	2
Solid Mechanics	26/07/2019	2
Fluid Mechanics	08/09/2019	1
C-Programming	06/01/2019	1
Artificial Intelligence (NPTEL)	01/10/2020	1
Career Edge - Knockdown the Lockdown (TCSIION	24/04/2020	2

Digital)

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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	Computer Science Engineering	106
BTech	Information Technology	50
BTech	Electronics & Communication Engineering	237
BTech	Electrical & Electronics Engineering	38
BTech	Mechanical Engineering	50

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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

Feedback form/formats are designed for the stakeholders. This includes faculty feedback, alumni feedback, student feedback, course exit feedback, etc. Faculty feedback from the students for the respective course is taken twice in a semester on various teaching/learning aspects and it is analysed by the HODs and corrective measures if any, are informed to the respective faculties for further improvements. Course exit feedback and program exit feedbacks are taken to analyse the understanding capability of the students. Feedback about the infrastructural facilities are taken from the final year students at the end of the program for improving the lab facilities, if any. The feedback so obtained is analysed for further improvement. Feedback from the parents are taken by interacting with them during Parent - Teacher Meet. Feedback is taken from alumni for suggestions or improvements in the curriculum. Our College team conducts the exercise of student feedback every semester. We have a system of taking feedback from students on the subject wise teachers. This is a feedback which measures parameters like Subject knowledge, Communication, Teaching aids used, Methodology etc. which is analysed by our Management for taking appropriate decisions for improving the quality of teachers. The teaching-learning processes of the institute is augmented by a special training center called Vishnu Educational Development Innovation Centre (VEDIC) which has been set up by our Management at Aziz Nagar near Hyderabad. The center organizes various workshops, FDPs and training programs regularly for faculty, students and other staff by drawing experts from reputed institutes and industries. VEDIC empowers our Faculty with the latest ICT tools which include game-based learning and gamification in Engineering education, future oriented educational concepts. The alumni feedback and exit feedbacks are taken from all students.

From these forms we are able to make out whether the proper teaching learning process is in place. Also, this process enables the institute to improve in the areas wherever necessary. The feedback is key tool which triggers in continuous improvement in the quality of education. The feedback is taken from students in order to analyse and implement as per their needs. Based on the above feedbacks and suggestions received we take corrective actions to complete the loop.

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	IT	120	129	129
BTech	EEE	120	111	108
BTech	MECH	120	110	108
BTech	CSE	180	192	192
BTech	ECE	180	180	179
BTech	CIVIL	60	54	51
Mtech	CSE	18	12	9
Mtech	AMFS	18	21	19
MBA	MBA	60	65	61
Mtech	EPE	18	11	9

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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	3081	179	178	14	21

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
213	209	44	49	49	12

[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)

Institute admits students from various socio economical backgrounds, like rural, urban and metropolitan regions, and from various states of the country. When these students arrives in the Institute, they face many emotional, behavioral, language, economic, social and other difficulties for all these they need mentors to help them to

come out of these situations and gain confidence of facing such situations bravely. Institute has appointed full time counsellors who help freshers to overcome their language, emotional, behavioural difficulties during first 2 to 3 months stay in the institute. During the induction program students are made aware of the counsellor and the type of help counsellor can provide to the students who face such type of difficulties. Institute has a well defined policy of mentoring admitted under graduate students and organizes the induction program for fresh students during the first three weeks of their first semester in the institute. On the very first day Chairman , Director and Principal of the institute address fresher students giving them the basic information about the Institute. Institute assigns to every teaching faculty the role of mentor to the newly admitted students. In this way each faculty assigned with 3 to 4 students of the 1st year undergraduate for a complete year. The students meet mentors frequently and get their support in overcoming the emotional and other difficulties of them. In II, III and IV years institute offers a highly efficient Mentoring system through which a group of students consisting of 1015 students are assigned to a faculty member at the commencement of the program. Mentors meet their students and guide them in respective courses and give awareness in industrial courses and other requirements of the national and international community and various career opportunities and extracurricular activities. They also provide advice relating to selection of career guidance and personal problems. The mentors act as guide to the students. The Institute offers very effective program campus recruitment training(CRT) program, which is helpful for their career development and placements. These mentoring systems adapt the students to the dynamic learning environment and lead their ways into highly successful careers.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3260	211	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
48	34	14	34	4

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	Mr. G. Narasingarao	Assistant Professor	Society of Automotive Engineers India (Membership)
2019	Mr.M Vinod	Assistant Professor	Society of Automotive Engineers India (Membership)
2019	D. Vijaya Lakshmi	Assistant Professor	Ph.D. ,
2019	Ms. M. Sri Lakshmi	Associate Professor	PhD Admission in JNTUA (Through APRCET)
2019	B.V.Prasanthi	Assistant Professor	APRCET
2019	U.S.S.P.Jyoyhi	Assistant Professor	APRCET
2019	K.Bhargav kiran	Assistant Professor	APRCET

2019	S.M.Hussian	Assistant Professor	APRCET
2019	T.Vamsikrishna	Assistant Professor	APRCET
2019	B Bangarraju	Assistant Professor	APSSDC in Collaboration With Indo Euro Synchronization : ARC Best Teacher Award 2020
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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	CE, ME, EEE, ECE, CSE, IT	IV Yr I Sem	08/11/2019	03/12/2019
BTech	CE, ME, EEE, ECE, CSE, IT	III Yr I Sem	05/11/2019	10/01/2020
BTech	CE, ME, EEE, ECE, CSE, IT	II Yr I Sem	06/11/2019	02/01/2020
BTech	CE, ME, EEE, ECE, CSE, IT	I Yr I Sem	10/01/2020	13/03/2020
Mtech	AMFS, DECS, CSG, EPE	I Yr I Sem	10/02/2020	14/03/2020
BTech	CE, ME, EEE, ECE, CSE, IT	IV Yr II sem	19/09/2020	10/10/2020
BTech	CE, ME, EEE, ECE, CSE, IT	III Yr II Sem	05/11/2020	31/12/2020
BTech	CE, ME, EEE, ECE, CSE, IT	II Yr II Sem	27/11/2020	03/02/2021
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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
7	6303	0.11%

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)

<http://vishnu.edu.in/obe.php>

2.6.2 – Pass percentage of students

Programme	Programme	Programme	Number of	Number of	Pass Percentage
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Code	Name	Specialization	students appeared in the final year examination	students passed in final year examination	
CIVIL	BTech	CIVIL	53	49	92.45
ECE	BTech	ECE	198	150	75.75
CSE	BTech	CSE	166	130	78.31
MECH	BTech	MECH	138	115	83.33
EEE	BTech	EEE	135	99	73.33
IT	BTech	IT	53	44	83.02
AMFS	Mtech	AMFS	12	5	41.67
CSEG	Mtech	CSEG	1	1	100
ELPE	Mtech	ELPE	1	1	100
DECS	Mtech	DECS	4	2	50
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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)

<http://vishnu.edu.in/sss.php>

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

No file uploaded.

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
International	Mr.Ch.Murali Krishna	Young achiever award 2020	16/06/2020	Institute of Scholars
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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)	2	CSIR	0.4	0.4
Minor Projects	730	AICTE	13.44	10.75
Major Projects	1095	DST -NSTMIS	28.97	Nil
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3.2.2 – Number of ongoing research projects per teacher funded by government and non-government agencies during the years

1

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
Wireless Ad Hoc and Sensor Networks 07-02-2020 to 08-02-2020	ECE	07/02/2020
NI Lab Module IV (CLAD Training)Training 07-08-2019 TO 13-09-2019	ECE	07/08/2020
NI Lab Module V Training 10-02-2020 TO 12-02-2020	ECE	10/02/2020
NI Lab Module VI Training 13-02-2020 TO 14-02-2020	ECE	13/02/2020
Autonomous Drones 29-02-2020 TO 30-02-2020	ECE	29/02/2020
Autonomous Agriculture Spraying Drones 12-03-2020 TO 14-03-2020	ECE	12/03/2020
Fabrication faulty analysis of all ATV 31/7/2019 to 6/08/2019	ME	31/07/2019
Auto CAD 17/02/2020 to 22/02/2020	ME	17/02/2020
Auto CAD 24-02-2020 to 29-02-2020	ME	24/02/2020
Recent research developments in materials engineering and mechanical design 21-07-2020 to 25-07-2020	ME	21/07/2020
Innovative Energy environment Technologies 30-07-2019	ME	30/07/2019
Opportunities Challenges to get Research funding projects for Engineering college Teachers 04-11-2019	ME	04/11/2019

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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
STOCK WARS	Mr. K	E-Summit '20,	10/01/2020	II Runner-up

10th to 12th January 2020	Bhargav, III EEE, Mr. A Teja III ECE, Mr. G. Bhaskar Praveen III EEE, Mr. B. Baba Badrinath III MECH, Mr. R Anand Shanthy Kiran III ECE	IIT Bhubaneswar		
ENTHUSIASTIC CONTINGENT AWARD 10th to 12th January 2020	Ecell, Vishnu Institute of Technology	E-Summit'20, IIT Bhubaneswar	10/01/2020	Nil
Special Award in Connecting Ecells 10th to 12th January 2020 ?	Mr S. Mahaboob Hussain, In-Charge iEDC along with Mr. Srimannarayana, III CSE (Campus Ambassador), Mr. B. Jagadeep Chowdary, III CSE and Ms. K. Madhuri, III ECE	E-Summit'20, IIT Bhubaneswar	10/01/2020	Nil
Microbial Bio-Sensors 19th October 2019	Mr. G. Phani Chandra	Quest - Ingenium	19/10/2019	Winners
Bio Sensors 26th 27th September 2019	Mr. G. Phani Chandra	IU Think	26/09/2019	Winners
Influence of FGM on the Parametric Instability of Skew Plates in Thermal Environment 18/5/2019	Ramu Inala	ICIPDIMS 2019, NIT-Rourkela.	18/05/2019	Research-Best paper
Solar Panel Automated Cleaning Ecosystem (Space) 9 March 2019	TiE GRAD Business Idea Tournament	TiE, Hyderabad	09/03/2019	Overall championship
SMART SOLAR PANEL CLEANING MACHINE 27th 28th February 2020.	Dr.Kalam Innovation festival	J.D.Foundation Vishnu Institute of Technology, Bhimavaram	27/02/2020	Cash Prize
Smart Food Packaging	Smart India Hackthon 2019	MHRD, India	08/07/2019	First Prize

System for Frozen Shrimps 08/07/2019 to 12/07/2019				
Smart Food Packaging System for Frozen Shrimps October 19, 2019	QuEST Ingenium 2019.	QuEST Global	19/10/2019	Winners
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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
NIL	NIL	NIL	NIL	NIL	Nil
View File					

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
NIL	Nil

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	ECE	24	1.23
International	CIVIL	3	3.73
International	CSE	3	Nil
International	IT	2	1.5
National	MBA	3	2.17
National	MECH	3	Nil
International	MECH	17	0.7
International	EEE	12	1.71
View File			

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
ECE	4
CSE	8
MECH	8
View File	

3.4.4 – Patents published/awarded during the year

Patent Details	Patent status	Patent Number	Date of Award
An Integrated 555 Timer IC KIT	Published	201941016569	13/09/2019

Solid state deposition process of surface alloy coating	Published	202041015774	05/06/2020
Solid state deposition process of surface alloy coating	Published	202041015774 A	05/06/2020
View File			

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
Rural Entrepreneurship -Oppo rtunities Challenges	Dr.K.Ganga Raju, D.Leela Kalyani	Internat ional Journal of Innovation and Technology Management	2020	2.17	Vishnu Institute of Technology	Nil
Problems and Achiev ements in Research with reference to Educati onal Insti tutions	Dr.K.Pavan and M. Ramya Krishana	Internat ional Journal of Innovation and Technology Management	2020	2.17	Vishnu Institute of Technology	Nil
Microstr uctural ch aracteriza tion of fly ash based geopolymer	B.Vinay, Ruben Nera lla,Sri Ram Chand, P.Rohith	Elsevier	2020	12	Vishnu Institute of Technology	12
Implemen tation of low power carry skip adder using reversible logic	Addanki Purna Ramesh	Internat ional Journal of Recent Technology and Engine ering (IJRTE) ISSN: 2277-3878	2019	1	as professor of Electro nics and C ommunicati on Enginee ring at Vishnu Institute of Technol ogy, Bhimavaram	1
Underwater image enha ncement	G Bhagyasri, G Prasanna kumar, PSN	2019 Int ernational Conference on Intelli	2019	1	Vishnu Institute of Technol ogy, Bhima	1

using SWT based image fusion and colour correction	Murthy	gent Computing and Control Systems (ICCS)			varam, Andhra Pradesh, India	
Circuit Level Low power Design, Implementation and Performance Evaluation of different SRAM Bit Cell Configurations operating at Ultra-low Voltage	M Durga Prakash B V V Satyanarayana	International Journal of Engineering and Advanced Technology (IJEAT)	2019	1	KLU AND VIT	1
Device and Circuit Level Design, Characterization and Implementation of Low Power 7T SRAM Cell using Heterojunction Tunneling Transistors with Oxide Overlap	BVV Satyanarayana, M Durga Prakash	Microprocessors and Microsystems	2020	1	KLU AND VIT	1
Design of S-Shaped Micro-strip Patch Antenna for Ka Band Applications	Ch. Rama Krishna, D. Durga Prasad	ICICCT 2019 - System Reliability, Quality Control, Safety, Maintenance and Management. ICICCT 2019. Springer, Singapore. https://doi.org/10.1	2019	1	Vishnu Institute of Technology	1

		007/978-98 1-13-8461- 5_29				
Electromagnetic Pollution Index Estimation of Green Mobile Communication	Ravi Varma, N Padmavathy	Second IEEE International Conference On Intelligent Computing, Instrumentation And Control Technologies	2020	1	Vishnu Institute of Technology, Bhimavaram, AP, INDIA	1
Dynamic Reliability Evaluation Framework for Mobile Ad-Hoc Network with Non-Stationary Node Distribution	N Padmavathy, K Anusha	Communication and Computing Systems	2019	1	Department of Electronics and Communication Engineering, Vishnu Institute of Technology, Bhimavaram(AP), INDIA	Nil
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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
Device and Circuit Level Design, Characterization and Implementation of Low Power 7T SRAM Cell using Heterojunction Tunneling Transistors with Oxide Overlap	BVV Satyanarayana, M Durga Prakash	Microprocessors and Microsystems	2020	37	1	KLU AND VIT
Low Power Silicon-On-Insulator	BVV Satyanarayana, M Durga Prakash	Journal of Advanced Research	2019	8	Nil	KLU AND VIT

Heterojunction Tunneling Transistor Architectures Analysis at Device Level		in Dynamic and Control Systems				
Lower subthreshold swing and improved miller capacitance heterojunction tunneling transistor with overlapping gate	BVV Satyanarayana, M Durga Prakash	Materials Today: Proceedings	2020	18	Nil	department of Electronics and Communication Engineering at Vishnu Institute of Technology, Bhimavaram, Andhra Pradesh.
A Hybrid Link Reliability Model for Estimating Path Reliability of Mobile Ad Hoc Network	B Venkata Sai Kumar, N Padmavathy	Procedia Computer Science	2020	47	Nil	Vishnu Institute of Technology, Bhimavaram (AP), 534202, INDIA
Effect of Network Parameters on Hop Count Estimation of Mobile Ad Hoc Network	N Padmavathy, SV Satya	Third IEEE International Conference on Electrical, Computer and Communication Technologies (IEEE ICECCT 2019)	2019	11	Nil	Vishnu Institute of Technology, Bhimavaram (AP), 534202, INDIA
Image Correlation Technique for Slope and Curvature of a Cantilever Beam Using Light	Ramu I	Lecture Notes in Mechanical Engineering	2019	Nil	1	Vishnu Institute of Technology

Intensity

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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	14	80	32	41
Presented papers	9	12	Nil	Nil
Resource persons	Nil	1	1	Nil

[View File](#)

3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
EEE	Maintenance of Electrical Equipment	Tectzo Solutions Private Limited	225000
EEE	Design and Testing of Power Electronic Converters	Tectzo Solutions Private Limited	275000
EEE	Electrical maintainance of solar system	Chinna Solar Enterprises	235500
MECH	Nil	BSM Foundries, Ajjaram	92630
MECH	Nil	Vijaya Agro Sprayers, Peravali	156350
MECH	Nil	Nandina Iron Steel Castings, Nidadavole	178947
MECH	Nil	Indian Metal Works, Addanki	97114
CIVIL	Aqua Water Analysis Tests of Fish Ponds	Advanced Aqua Mart(Mr.V.Ramara ju)	29300
CIVIL	Aqua Water Analysis Tests of Fish Ponds	a). Aqua Hub (Mr.V.Ramara ju)	24500
CIVIL	Aqua Water Analysis Tests of Fish Ponds	b) Water Analysis of Aqua pond Water Samples	13400

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

Name of the Consultant(s)	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
---------------------------	------------------------	---------------------------	--------------------------------------	--------------------

department				
NIL	NIL	NIL	0	0
View File				

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
International Yoga Day	NSS	100	200
Awareness program on Environment Protection	NSS	20	60
Water Conservation Campaign	NSS	20	20
One Student One Tree	NSS	25	500
Participation of volunteers in Independence Day celebrations @ JNTUK	NSS	1	10
Awareness Program on Plastic Waste Free India	NSS	20	100
Swacchata Hi Seva	NSS	25	100
Blood Donation	NSS	8	100
Awareness program on Constitution of India	NSS	15	300
Participation of volunteers in Republic Day Celebrations @JNTUK	NSS	1	10
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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
Tech fest, Robo Soccer Event	winner	Sri Vishnu Educational Society	3
Master Orator Championship	Runner	Jain Heritage a Cambridge School	1
Tech fest ,Football	winner	Sri Vishnu Educational Society	18
Tech fest,	2nd winner	CIT(Chennai)	1

vidyutrenz			
Tech fest, ultra drones	2nd winner	PSG(Coimbatore)	1
Tech fest, Project Expo Event	2nd winner	GVIT(BVRM)	1
Tech fest, Drone league	4th Position	IIT Chennai	1
Tech fest, Fox Hunt Event	winner	Sri Vishnu Educational Society	2
Tech fest, Drone Racing Event	2nd Position	GMRIT, Rajam	4
Tech fest, Drone Racing Event	2nd Position	IIT - Hyderabad	4
View File			

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 activities	Number of students participated in such activities
Swachh Bharat	Sri Vishnu Educational Society	Swachh Bharat	25	100
Swachh Bharat	Sri Vishnu Educational Society	Awareness Program on Plastic Waste Free India	20	100
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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
Training Internship	Faculty and Students	National Instruments	365
Industrial Automated Dispensing Machine Technical Training	Faculty	Sri Vishnu Educational Society Innovative Communication Development PTE.LTD, Singapore.	10
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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

The-job training	Pega UAP	TalentSprint	03/01/2020	29/06/2020	120 B.Tech 3rd year students of CSE, IT, ECE
Internship	Intern	Open Text Intern, Bangalore	03/06/2019	30/11/2019	Students-3
Internship	Intern	I.T.S.Engi neering College, Greater Noida	03/06/2019	13/07/2019	Faculty Students-25
Training Internship	NI Lab view School of Academy	National Instruments	01/06/2019	14/02/2020	Faculty Students-137
Training Internship	Center of Excellence	Propeller Technology	12/03/2019	31/12/2019	Faculty Students-42
Training Internship	Center of Excellence	Applied Robotic Control (ARC)	15/02/2019	31/12/2019	Faculty Students-40
Training	Robotic Process Automation	Robotic Process Automation (RPA)	01/05/2019	31/12/2019	Students-60
Internship	Intern	Cognine, Hyderabad	18/11/2019	18/03/2020	Students-3
Internship	Internship	National Instruments Innovation Centre, ITS Engineering College, Noida	03/06/2019	16/07/2019	06
Internship	Internship	LT Defence, Gujarat	10/07/2019	10/09/2019	02

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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	24/12/2020	Mentoring, Networking, Investment, Business Idea Competitions	50
Institutions Innovation Council (IIC). Ministry of	11/09/2019	Pre-incubation, Mentoring, Networking,	370

Education (MoE), Govt. of India		Innovation and Entrepreneurship Support	
BRCORP	19/09/2019	Mentoring, Networking, Mentoring, Networking, Innovation and Entrepreneurship Support	18
Rubicon Skill Development Pvt. Ltd.	25/02/2020	Soft Skills Training	300
Andhra Pradesh State Skill Development Corporation (APSSDC) European Centre for Mechatronics (ECM)	15/02/2019	Training Students in the field of Mechatronics Robotics and providing placement opportunities	42
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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
85	78.99

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Classrooms with Wi-Fi OR LAN	Existing
Seminar halls with ICT facilities	Existing
Video Centre	Existing
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Nil
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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
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ECAP	Fully	1.0	2012
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4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
	Text Books	29440	7966400	1186	518688	30626
Reference Books	6365	2602285	300	150000	6665	2752285
e-Books	10387	13570	452	Nill	10839	13570
Journals	111	215415	3	41101	114	256516
e-Journals	3828	5900	2465	Nill	6293	5900
Digital Database	1	Nill	Nill	Nill	1	Nill
CD & Video	3445	Nill	Nill	Nill	3445	Nill
Library Automation	1	30000	Nill	20000	1	50000

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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.Abhinav Dayal	Vishnun learning	PHP	01/07/2019
Mr. Narasimha Rao Kandula	Vishnu Placements	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	1385	24	1385	25	1	6	52	130	0
Added	81	1	81	1	0	0	0	200	0
Total	1466	25	1466	26	1	6	52	330	0

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

330 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
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DELNET	http://delnet.in/
NATIONAL DIGITAL LIBRARY OF INDIA	https://ndl.iitkgp.ac.in/
NPTEL (5TB, IIT MADRAS)	https://10.0.52.250/nptel
N-LIST PROGRAMME	https://nlist.inflibnet.ac.in/
Vishnun learning (php)	https://www.vishnulearning.in
Vishnu Placemets(PHP)	https://www.vishnuplacements.in

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
8	4.66	414.09	234.52

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)

• The college ensures optimal allocation and utilization of the available financial resources for maintenance and upkeep of different facilities by holding regular meetings of various committees

• Laboratory: Record of maintenance account is maintained by lab technicians, Lab In charge and supervised by HODs of the concerned departments.

• Maintenance of laboratories are as follows:- The calibration, repairing and maintenance of sophisticated lab equipments are done by the technicians of related Supplier enterprises.

• Library:-

1. The requirement and list of books is taken from the concerned departments and HODs are involved in the process. The finalized list of required books is duly approved and signed by the Principal.
2. Suggestion box is installed inside the Library to take users feedback. Their continuous feedback helps a lot in introducing new ideas regarding library enrichment.
3. To ensure return of books, 'no dues' from the library is mandatory for Staff and Students before relieving from the Organization.
4. Other issues such as Library Budget, Subscription of Journals, schedule of issue/ return of books etc. are chalked out / resolved by the library committee.
5. E-CAP (Engineering College Automation Package) software is used for Library activities.
6. All the New Arrivals are displayed in Reference Section.

Computers: -

1. Centralized computer (Digital) library was established to enrich the students.
2. Each Department is having appropriate computer labs for their requirements.
3. Internet and WIFI Enabled campus.

• Classrooms: -

1. The college has various committees for maintenance and upkeep of infrastructure. At the departmental level, HODs submit their requirements to the Principal regarding classroom furniture and other.

Additionally:-

1. There are lab instructors in every department, who maintains the stock register by physically verifying the items round the year.
2. Department wise annual stock verification is done by concerned Head of the Department.
3. Regular maintenance of Computer Laboratory equipment's are done by Laboratory Assistant along with Laboratory attendant and they are headed by the faculty in charge. Updating of softwares is done by lab assistants.
4. Regular cleaning of water tanks, proper garbage disposal, pest control, landscaping and maintenance of lawns is done by Sri Vishnu Educational Society concern Employees.
5. Maintenance and repairing of IT infrastructure such as computers, internet facilities including Wi-Fi and broadband is done by CSE IT Departments lab staff
6. Regular maintenance of the water cooler and water purifier is done regularly
7. Whenever any maintenance issue occurs, the concerned department staff member raises the issue by a

letter to the office through proper channel. Then the office, brings it to the notice of the maintenance department and accounts department. After proper approvals, maintenance department contacts the concerned contractors and get estimates of the work. And after finalization of the contract, the maintenance department will get the maintenance work done. Finally, with the approval of concerned department staff, the bill is settled by the account department and the issue will be closed.

<http://vishnu.edu.in/maintenance.php>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Nil	14	340800
Financial Support from Other Sources			
a) National	Scheme of PostMatric Scholarship(Reimbursement ofTuition fee (RTF) to colleges andMaintenance chargedto the Students(MTF)) by SocialWelfare Departmentof Government OfAndhra Pradesh (Jagananna Vidya Deevenascheme)	1753	137322500
b) International	Nil	Nil	Nil

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

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Remedial Coaching	28/05/2020	197	ECE II B.Tech II Sem (ECA)
Remedial Coaching	21/05/2020	197	ECE II B.Tech II Sem (ECA)
Remedial Coaching	14/05/2020	197	ECE II B.Tech II Sem (ECA)
Remedial Coaching	07/05/2020	197	ECE II B.Tech II Sem (ECA)
Remedial Coaching	30/04/2020	197	ECE II B.Tech II Sem (ECA)
Remedial Coaching	16/04/2020	197	ECE II B.Tech II Sem (ECA)
Remedial Coaching	23/04/2020	197	ECE II B.Tech II

			Sem (ECA)
Remedial Coaching	17/04/2020	197	ECE II B.Tech II Sem (CS)
Remedial Coaching	24/04/2020	197	ECE II B.Tech II Sem (CS)
Remedial Coaching	01/05/2020	197	ECE II B.Tech II Sem (CS)

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

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2020	GATE EXAM	75	75	Nil	Nil
2020	GRE	10	10	1	Nil

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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
3	3	5

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
31	452	295	40	450	144

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

Year	Number of students enrolling into higher education	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
2019	1	B.Tech	ECE	SRM University, Kattankulathur	M.Tech (VLSI Design)
2019	1	B.Tech	ECE	Vishnu Institute of Technology, Bhimavaram	M.Tech (DECS)
2019	1	B.Tech	ECE	Vishnu Institute of Technology, B	MBA

				himavaram	
2019	4	B.Tecdh	EEE	Vishnu Institute of Technology, Bhimavaram	M.Tech
2019	1	B.Tech	EEE	SRKR Engineering college, Bhimavaram	MECH
2019	2	B.Tech	CSE	Vishnu Institute of Technology	M.Tech
2019	1	B.Tech	CSE	University of conestoga, canada	M.S
2019	1	B.Tech	IT	Avanathi Institute of Technology and science	M.Tech
2019	1	B.Tech	IT	Vishnu Institute of Technology	MBA
2019	1	B.Tech	IT	Vishnu Institute of Technology	M.Tech

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

Items	Number of students selected/ qualifying
GATE	2
GRE	2
Any Other	7

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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
VITB Students in VALIANT 2K19 Chess Runners, Throw Ball, VolleyBall, Basketball	National Level Symposium	60
College Annual Day Celebrations	College Level	400
Other Colleges Students in VALIANT 2K19 Chess Runners, Throw Ball, Volley Ball, Basketball, etc.	National Level Symposium	124
Students participating in	National Level Symposium	200

5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	All India Inter university rope skipping selections- JNTUK	National	1	Nil	19PA1A1284, 19PA1A12B0	NVS.VARMA, R.MADHAVA VARMA
2019	University Hockey team selections- JNTUK	National	1	Nil	19PA1A0239	G.Y.Ganesh
2019	JNTUK Central Zone - High Jump	National	1	Nil	19PA1A1279	P.Sindhu
2019	Interuniversity Cricket tournament, SV University, Tirupati	National	1	Nil	19PA1A1291	P.Charisma

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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)

1. Anti Ragging Committee 2. Career guidance committee 3. Library Committee
4. Sports committee 5. Student Affairs and Welfare Committee 6. Student Council
7. Cultural Committee 8. Valiant Committees

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

Yes, VISHNU INSTITUTE OF TECHNOLOGY ALUMNI ASSOCIATION is registered under the Andhra Pradesh Societies Registration Act, 2001

5.4.2 – No. of registered Alumni:

803

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

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Association Meeting is held at Bhimavaram in the 2019-20 Academic Year

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)

This year is the crucial year for our Institution as we started autonomous batch this year. Decentralization and Participative management constitute the backbone of the organization. While the Governing Body provides an overall strategic direction and character to the organization, the major functions and activities related to administration, academics, finance and other domains of the organization are distributed to various committees which are delegated authority at all levels. The GB also has its complement of staff representation. Various committees like the College Academic Committee, Library Committee, Finance Committee, Student Affairs and others plan and execute the various activities to realize the Vision and Mission of the organization. Participative management is the outcome of decentralization. The Principal, the CAC and other faculty are involved in defining and framing the policies and procedures, the guidelines for the various functions and in implementing them. Practices The College Academic Committee : Headed by the Principal, comprises the HODs, senior faculty, the exam cell Incharge, Librarian, administrative officer and Student Coordinator. Role: They meet, discuss and formulate policies concerning curriculum and instruction, plan to establish standard educational practices, promote research and development and industry academia linkage and so on. Board of Studies:The college planned to go for autonomous status from the year 2019 to 2020. Accordingly a Board of Studies was constituted for each of the departments to finalize the curriculum and evaluation pattern. All the departments have their respective Board of Studies. The BOD comprises the HOD, Subject experts from institutions of repute, industry experts, the faculty, and the alumni. Activities: They meet and deliberate the recommendations of the Council of Higher education and AICTE, the industry requirements, the alumni inputs and the faculty advice in finalizing the curriculum and the syllabus, and its implementation and evaluation. Research and Development Committee: comprises the senior faculty with the Principal as its head. The Committee aims at promoting research and development in the organization, motivating the faculty and students to involve in research, supporting faculty to secure patents and indulge in consultancy and procuring grants for promoting and supporting research. The faculty members participate actively in initiatives like ATL Center, Drone Center of Excellence, APSSDC CM COE, Alternative Energy Solutions Lab, NI Lab View School Academy, BOT Lab, Dassults Lab and Applied Robotic Initiations by Management:

1. Given freedom in identifying right people as BOS members
2. Given full freedom in framing the autonomous syllabus and regulations
3. During the COVID Pandemic, management has given lot of support morally as well as materialistic way
4. Through VEDIC, management support the staff for learning software useful for online teaching

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
<p>Examination and Evaluation</p>	<p>The examinations are conducted as per the academic calendar. The performance of the students is continuously assessed through both internal and semester end external examinations. As a part of internal assessment, two MID examinations are conducted per semester and both comprise a descriptive test and an objective test (online for JNTUK offline for Autonomous). A detailed scheme of evaluation for the internal question papers for the descriptive examination is prepared by the internal faculty members. Assignments also constitute a part of the internal assessment. Special classes are conducted for the benefit of the students.</p>
<p>Admission of Students</p>	<p>Eligible students are given admissions. 70 of the admissions are done by the Convener, EAMCET, Govt. of Andhra Pradesh. Remaining 30 of the seats are filled by the Management based on the guidelines given by Govt. of Andhra Pradesh. The Admission Committee maintains the records of all student applications and admissions. The eligible students are given scholarships as per the Government norms and procedures laid down from time to time by Government of Andhra Pradesh.</p>
<p>Research and Development</p>	<p>Research and development is continuously monitored by the R D committee. The faculty and students are introduced to the latest developments by conducting workshops, seminars and guest lectures are arranged with experts from the industry and RD organizations. The faculty are provided with financial assistance for presentation of research papers, attending conferences, workshops, etc. The teachers are encouraged to publish in peer reviewed journals and magazines. Physical and digital infrastructures like journals, internet, digital learning materials, PCs, software, etc. are provided to carryout research. The centres of excellence like National Instruments Lab, Dassaults Centre of Excellence, Drone Centre of excellence, TotalStation provide an opportunity for research. One faculty member obtained a</p>

PhD. Research projects including DRDO and DST projects are also undertaken.

Teaching and Learning

The college is provided with its full complement of highly qualified and experienced faculty. Vishnu Educational Development and Innovation Centre(VEDIC) is a unique facility established for training the leadership, teachers and students in scientific educational practices. While the teachers are trained in best practices of pedagogy, the students are provided holistic training encompassing their intellectual, emotional and behavioural aspects as well, by a team of highly qualified educational experts. Smart classrooms with LCD projectors, computer centres, wifi connectivity provide the infrastructure for technology enabled teaching and learning. Learning Management system like Moodle and tools like google classroom, Kahoot are also used by the teaching and learning community. Continuous Professional Development is ensured by participation in seminars, conferences and workshops and taking up online courses. Both the faculty and the students are members in Professional bodies. Industrial visits and Internships, and participation in hackathons provides the much needed exposure. A unique initiative was the Connect program where videos on the scientific educational practices were shared across the four engineering colleges of our Sri Vishnu Educational Society. Created Google classrooms for all the subjects. Created Video Lectures for various subjects. Effective utilization of Google Meet, Microsoft Teams for online classes. Created Digital class rooms for online teaching using Youtube.

Library, ICT and Physical Infrastructure / Instrumentation

The state of the art library with its rich resources caters to the needs of the teaching learning community. The learning resources are constantly updated as per the suggestions of the experts and HODs. Print journals, ejournals of reputed publishers are subscribed. The digital library provides access to ebooks and elearning resources through DELNET and NLIST.NPTEL National Programme on Technology Enhanced Learning - A joint venture of IITs and IISc web courses

and video courses are being used by staff and students to enhance their skills. Librarian's day and Library week celebrations were organized by the library. ICT: Smart classrooms with computers, LCD projectors, a public address system and wifi connectivity help provide technology enabled education. The campus is wifi enabled and is provided with internet and intranet facility. Infrastructure: Classrooms, seminar halls and fully equipped labs are provided for the dissemination of knowledge and skills. Good computational facilities are provided with sufficient number of computers and peripherals. The Drone Centre of Excellence, Alternate Energy Solutions Lab, the Dassaults 3 D experience lab provide a platform for updating one's skills in latest technologies. The students are provided with various amenities such as canteen, indoor and outdoor game facilities, gym centres, medical centre, hostels, food courts, rest rooms, and transport facility.

Human Resource Management

The institution has its full complement of staff. The staff are recruited based on merit. Annual assessment of faculty is done through Faculty Self Appraisal Proforma (SAP). From time to time, the management reviews and revises the salaries as per norms. To facilitate continuous professional development, faculty are trained in the latest pedagogy at VEDIC, a Centre for educational development and research. They are also trained in the professional skills like interpersonal skills that are required at the workplace. Support and guidance is given for carrying research activities, presenting papers in conferences and publishing papers in reputed journals. Faculty are motivated to send research proposals to various funding agencies and are also encouraged to apply for higher studies. They are encouraged to participate in FDPs, Seminars and Workshops, software training organized by various Industries and Institutions.

Industry Interaction / Collaboration

Industry Interaction / Collaboration
The industry interaction is integrated with all the courses. MOUs are signed with industries for mutual benefit with

the exchange of expertise. Guest lectures are being conducted for faculty and students with industrial experts. Companies like E Pam and One Convergence provide the support for technical training and projects. Students are deputed to the industry for internship. Many students are performing well and are being absorbed into the organizations after the completion of their degrees. Industry experts are also involved in curriculum development and revision. The organization has signed MOUs, like with Tie Grad and Propeller Technologies R D Pvt Ltd, Trichy. The EDC cell initiates activities to promote entrepreneurship. It organized PM YuvaYojana Programme under the Central government scheme to promote start ups. Internships and placements Special placement offices have been established under the aegis of Sri Vishnu Educational Society in select cities like Pune, Noida, Bangalore etc to collaborate with the industry and provide the students with opportunities for internships and placements. There have been placement 676 offers in 2019-2020.

Curriculum Development

The institution ensures that domain knowledge is acquired along with the knowledge, skills and attitudes required for the twenty first century. Keeping in tune with the trends and requirements of the industry new courses are introduced. This is done systematically by receiving feedback from the employers and alumni on existing curriculum and improvement and innovation required. Information is collected on latest technologies and forecasting the future needs of the industry. Outcome based education is assured by planning the course outcomes and mapping them with the program outcomes. Going beyond JNTU K syllabus, students are trained in latest technologies like Pega, NI Lab View and advanced programming useful to the industry. Assistive Technology Lab is a unique initiative where students develop gadgets for the differently abled.

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

E-governance area	Details
Planning and Development	Provided new course structure and new

	<p>syllabus for various subjects for Academic Regulation: R19 (Autonomous).</p> <ul style="list-style-type: none"> o Uses ECAP for monitoring student attendance. Student and parent contact information will be available. o Vishnu Placements, Vishnu Learning help in the teaching and learning process and also support placement training. A software has been developed internally to evaluate the writing skills of the students. o Training has been given to faculty to adopt Technology enabled teaching using tools like Google class and Kahoot. The management has facilitated the sharing of video lectures among faculty outlining the best practices adopted.
Administration	PACT is used for payrolls and monitoring faculty salaries. Biometric system is in place to monitor the staff attendance.
Finance and Accounts	PACT is used for placing orders and inventory management.
Student Admission and Support	Online counselling for student admission. <ul style="list-style-type: none"> o Academic Data of students is available in V times. VishnuPay is an app using which students can pay college and hostel fee
Examination	VTIMES is a software used to analyse the results and the student academic performance is available in V times.

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	Mrs. B. Sridevi	EVA - Extensive Vision AI	Nil	11800
2020	Mr. K. Bhargav Kiran	EVA - Extensive Vision AI	Nil	5900
2020	Dr. Abhinav Dayal	EVA - Extensive Vision AI	Nil	5900
2020	Mr. K. Bhargav Kiran	EIP4 - External Internship Program on Deep Learning for Computer vision	Nil	1180

2020	Mrs. B. Sridevi	EIP4 - External Internship Program on Deep Learning for Computer vision	Nill	1180
2020	Dr. Abhinav Dayal	EIP4 - External Internship Program on Deep Learning for Computer vision	Nill	1180
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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	Web stack development (e-LAB)	Nill	27/09/2019	28/09/2019	2	Nill
2019	Faculty Colloquium	Nill	17/02/2020	18/02/2020	1	Nill
2019	Closing the Loop on Outcome Based Education	Nill	17/09/2019	18/09/2019	1	Nill
2019	Unconscious Bias in Work place,	Nill	15/07/2019	15/07/2019	4	Nill
2019	Introduction to Python Programming	Nill	01/07/2019	06/07/2019	9	Nill
2019	Student Learning in Instructional DEsign (SLIDE) Workshop	Nill	30/07/2019	01/08/2019	1	Nill
2019	E-VERIFY,	Nill	16/08/2019	17/08/2019	5	Nill
2019	Workshop on Data Science	Nill	28/08/2019	28/08/2019	1	Nill

2019	Web stack development (e-LAB) (e-LAB),	Nil	27/09/2019	28/09/2019	2	Nil
2019	Workshop on NASSCOM Future skills	Nil	24/10/2019	24/10/2019	7	Nil

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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
Unconscious Bias in Workplace	4	15/07/2019	15/07/2019	1
e-Yantra Robotics Workshop	1	12/07/2019	13/07/2019	2
INSOFE - INFER Seminar Event on Data Science	1	21/06/2019	21/06/2019	1
UiPath	1	03/06/2019	07/06/2019	5
AIET	2	27/05/2019	29/06/2019	32
InfyTQ based Foundation Program	1	06/05/2019	13/05/2019	8
Pega Awareness Workshop	1	28/05/2019	29/05/2019	2
Epam : Hands on application development using industry best practices and principles	1	29/04/2019	31/05/2019	32
AWSome Day Online Conference	1	30/05/2019	30/05/2019	1
TiE CON 2019 - The worlds largest Entrepreneurship conference	1	10/05/2019	11/05/2019	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
213	Nil	66	Nil

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Gifts are given on staff birthday or wedding anniversary • Mediclaim support is also provided.</p> <p>• Vishnu School fee concession 25 to staff children • Dispensary in college campus to look after the medical needs</p>	<p>• Gifts are given on staff birthday or wedding anniversary, • Mediclaim insurance support is also provided. • Vishnu School fee concession 25 to staff children • ESI is provided. • Dispensary in college campus to look after the medical needs</p>	<p>Students Group personal accidental insurance of 1 lakh • Dispensary in college campus to look after the medical needs.</p> <p>• Sponsoring gold medals to the toppers of all branches on the names of renowned persons of the society to encourage competitive spirit among the students</p>

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, We have our own internal audit mechanism which is an ongoing continuous process in addition to the external auditors to verify and certify the entire income and expenditure and the Capital Expenditure of the Institute each year. Qualified Internal Auditors from external resources have been permanently appointed and a team of staff under them do a thorough check and verification of all vouchers of the transactions that are carried out in each financial year. Likewise an external audit is also carried out on an elaborate way on quarterly basis. The institutional accounts are audited regularly by both internal and statutory audits. So far there have been no major findings/objections. Minor errors of omissions and commissions when 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 diligently follows the financial audit mechanism on a timely basis. In view of autonomous, the scope of internal audit and external audit is extended to autonomous issues like course structure design, syllabus framing, examination conduction, documentation and maintenance.

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

83000000

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	Manohar and Venkata Chartered Accountants, Hyderabad	Yes	Manohar and Venkata Chartered Accountants, Hyderabad
Administrative	Yes	Manohar and Venkata Chartered Accountants, Hyderabad	Yes	Manohar and Venkata Chartered Accountants, Hyderabad

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

Parent -teacher meetings are conducted periodically. • During the induction programme the parents of all the first years are invited and Chairman, Vice Chairman and principal provide an overview of engineering. • Parents and students are also informed about the best practices to be adopted to emerge successful and develop a holistic personality. • For every twenty students a mentor is assigned. • The mentors monitor the progress of the students and inform the parents as and when required. • The activities of the training and placement cell are informed to the parents.

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

Program on Communication Skills Workshop on Ethical and Cultural Diversity Workshop on Time and Stress Management

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

CAST - (Career Aspirations in Science and Technology) is a program organized for I B tech students following the induction programme and is aimed at providing a smooth transition from school to college. • Foreign visits of faculty to reputed industries and universities Dr M Venu visited Audi Germany as a part of Faculty Leadership Programme. In an effort to provide training in latest technologies, Mr. Gayatri Sarman, ECE and Mr. B. Bangarraju, Mechanical Engineering were sent to Germany and underwent training in "Robotic Architecture", KInematics and "Differential Motions of Robotics" at the Indo European Skilling Centre for Mechatronics and Robotics, Germany from 19 to 28 May, 2019. Dr D J Nagendra Kumar visited Chicago State Univeristy, Chicago, USA as part of JNTUK team under IndoUS Collaboration Scheme. NI LABVIEW ACADEMY NI center of excellence was established by the department of ECE at Vishnu Institute of Technology, Bhimavaram in November 2017. The NI COE was awarded and recognized as NI LABVIEW ACADEMY SCHOOL in December 2018. Through this school faculty and students are being trained for the CLAD certification course. . In addition, 25 students and 01 faculty have undergone internship training in May 2019 and developed projects like HOVERboards that can carry the load of 80 Kgs, Bowling machine and Typewriter machine during the internship period at Greater Noida. Outcomes: 1. NI Certification CLAD (Certified Labview Associate Developer) 2. Internships at reputed organizations and industries 3. Jobs through Internship. DRONE Centre of Excellence Drone center of excellence started in the academic year 20182019. Vishnu Institute of Technology always aspires to elevate the students in all fields of technology. In this connection, a student community in the area of drone technology in collaboration with Propeller Technologies, Tiruchirapalli was established. Through the DRONE Centre students, explore and assist in developing mechanisms that will serve to develop and enhance in the areas of industrial RD, Product Development and Drone Customization. Outcomes: 1. Design customized products in the field of Drone technology. 2. Make students participate in various drone competitions at the national level. Alternate Energy Solutions Lab Alternate Energy Solutions COE was established to work on Battery Technology with an aim

to investigate and design novel battery technologies in electric vehicle applications. This will contribute to a Sustainable Society, a Resource and Energy Efficient policy and to the achievement of Green Economy TiE Grad The Entrepreneurship Development Cell at Vishnu Institute of Technology promotes entrepreneurship among the students by conducting various activities. Solar Power Pus Solutions, is a product which has won the TiE Grad competition in Hyderabad and later was nominated for TIE Young Entrepreneurs (TYE) in the US.

- Training on Pega Tools and advanced computer programming

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	COURSE DESIGN WORKSHOP	18/07/2019	18/07/2019	19/07/2019	4
2019	COURSE AND CURRICULAM DESIGN WORKSHOP	06/08/2019	06/08/2019	08/08/2019	10
2019	CLOSING THE LOOP ON OUTCOME BASED EDUCATION	17/09/2019	17/09/2019	18/09/2019	14
2019	UNCONSCIOUS BIAS IN THE WORK PLACE	15/07/2019	15/07/2019	15/07/2019	24
2019	UNCONSCIOUS BIAS IN THE WORK PLACE	19/11/2019	19/11/2019	19/11/2019	15
2020	FACULTY COLLOQUIUM	17/02/2020	17/02/2020	18/02/2020	7
2020	DESIGN OF EXPERIMENTS	20/02/2020	20/02/2020	20/02/2020	1
2020	WRITING EFFECTIVE RESEARCH PROPOSALS	19/02/2020	19/02/2020	19/02/2020	4
2019	STUDENT LEARNING IN INSTRUCTIONAL DESIGN	30/07/2019	30/07/2019	01/08/2019	5
2019	STUDENT LEARNING IN	26/11/2019	26/11/2019	28/11/2019	5

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
Conference on "Women In Data Science" Amazon ,Hyderabad.	15/02/2020	15/02/2020	7	Nil
Awareness on women's Rights and Labour Laws	20/06/2019	21/06/2019	184	2
Train home	10/09/2019	10/09/2019	141	2
Psychological Wellbeing & Equality of Gender	14/07/2019	14/07/2019	97	446
Responsibilities and Challenges of Women	22/08/2019	22/08/2019	156	Nil
Identity and Individuality	18/11/2019	18/11/2019	56	Nil
Talk on Disha Act	13/12/2019	13/12/2019	287	Nil
International Women's Day Realizing Women's rights (Elocution) Rangoli and Dance competitions	08/03/2020	08/03/2020	215	Nil

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

Percentage of power requirement of the College met by the renewable energy sources The Vishnu Educational Society is met by the renewable energy sources (Solar Power). In view of the depletion of fossil fuels, the following alternate renewable sources of energy are under development in our College. Solar energy is one that is studied in depth both theoretically and practically through the establishment of a 502.4 KWp Roof Top Solar Power Plant. An Energy park was set up to create awareness among the students, the staff and the general public regarding the significance of renewable energy (RE) and renewable energy technologies (RETs) in the context of clean (environmentally benign), decentralized, modular, energy efficient and sustainable power. Every

year around 220 Tons of CO2 emission is being reduced by the use of renewable energy in our Campus. In the process of enhancing the maximum solar power utilization, the students and the staff designed a smart solar Panel cleaning Machine by which the power generation is increased to maximum percentage.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	25
Provision for lift	Yes	50
Ramp/Rails	Yes	60
Braille Software/facilities	Yes	Nil
Rest Rooms	Yes	180
Scribes for examination	Yes	38
Special skill development for differently abled students	Yes	65
Any other similar facility	Nil	50

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	1	1	24/09/2019	1	Workshop on Effective Communication Skills for Engineers, Scientists and Educators	English Communication	800
2019	1	1	11/11/2019	15	Uipath RPA Challenge	RPA	780
2019	1	1	10/12/2019	10	APSSDC Gaming workshop using Unity	Gaming	9
2020	1	1	30/01/2020	3	APITA-Animation Workshop	Animation	31

2020	1	1	29/02/2020	1	Autonomous drones	Practical Knowledge Gap Bridging	22
2020	1	1	12/03/2020	3	Autonomous agriculture spraying drones	Practical Knowledge Gap Bridging	24
2019	1	1	25/11/2019	9	ATL expo on Worlds disable day	Products for the Physically disabled people	30
2019	1	1	30/08/2019	2	CSIR Sponsored Two Day National Level seminar on "Innovations, Challenges, Opportunities and Policy Frameworks of Renewable Energy system for the Future India"	Renewable Energy system	58
2019	1	1	31/07/2019	7	Fabrication and Fault Analysis of All terrain vehicle	Practical Knowledge Gap Bridging	25
2019	1	1	26/11/2019	25	Applied Robot Control 2.0	Technology Gap Bridging	27
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7.1.5 – Human Values and Professional Ethics

Title	Date of publication	Follow up(max 100 words)
Inculcating Universal Human Values and Ethics	13/08/2019	The Code of conduct for students is available in the handbooks given to

the students at the time of admission. During the induction program when the students are at the threshold of their professional life awareness sessions are conducted by the faculty and a follow up is done by the mentors. Assignments are given to the students to introspect, contemplate and realize the role of human values and ethics in their personal and professional lives. Students are also introduced to the nuances of Indian culture through celebration of traditional festivals. Vishnu TV academy also provides a platform for students to exhibit their creativity by promoting liberal arts like song, dance and music. The Vedic training programs are conducted throughout the year for both the staff which brings out a behavioural transformation among the stakeholders. Students also participate in service activities in the nearby villages and the feedback of the villagers itself is their motivation.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Yoga day	21/06/2019	21/06/2019	110
Independence day	15/08/2019	15/08/2020	10
Ethics awareness programme for I.B.TECH students	19/08/2019	19/08/2020	400
Blood Donation Camp	15/10/2019	15/10/2020	100
Awareness program on plastic waste free india	01/10/2019	01/10/2020	100
Constitution Day	26/11/2019	26/11/2019	300

Sankrathi Sambaralu	10/01/2019	10/01/2019	200
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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

502.4 KWp Solar Power Plant: In view of the depletion of fossil fuels, the following alternate renewable sources of energy are under development. Solar energy is one that is studied in depth both theoretically and practically through 502.4 KWp Roof Top Solar Power Plant. An Energy park was set up to create an awareness among students, staff and the general public regarding the significance of renewable energy (RE) and renewable energy technologies (RETs) in the context of clean (environmentally benign), decentralized, modular, energy efficient and sustainable power. Alternate Energy solutions Lab: In the process of enhancing the skills of the staff and the students, an innovation lab by name "Alternate Energy Solutions lab" was established. In this Students can open their minds and design/makeup their ideas. In this process, some of the innovation ideas that got recognized at national and international level are 1. A smart solar panel cleaning Machine was designed to draw maximum power from the sun, 2. A smart food packaging system for frozen shrimps was designed to maintain the issues caused during export of shrimps, etc. Tree Plantation: Significance of tree plantation has been frazzled upon time and again. The need for tree plantation has become even greater these days because of the growing pollution in the environment. Tree plantation involves transplanting tree seedlings to grow forests and extend greenery around. There are a number of reasons why the practice of tree plantation is important for the environment. We encourage our students to plant trees regularly and do fertilization, gardening and doing awareness programs on importance of tree plantation regularly for student community. Compost Yard: Composting yard waste recycles nutrients back into the yard and saves landfill space. It reduces yard waste volume by 50 to 75 percent. Compost made with manure is questionable to use in food gardens due to newer strains of bacteria that cause foodborne illnesses. The microorganisms that break down plant wastes require favourable temperatures, moisture and oxygen. Compost can be used as a soil amendment and a mulch. Sewage treatment plant: To protect and conserve natural resources, campus sewage treatment plants have been commissioned to treat and recycle the waste water generated in the campus and to utilize it for strengthening greenery in the campus. We have three sewage treatment plants with the capacities 250 KLD, 200 KLD and 200 KLD in our total campus Cycling: A healthy practice of commuting to and fro within the campus by cycling is encouraged through the provision of significant number of bicycles, which has strengthened student's inclination to take up pollution free conveyance. In our campus more than 100 bicycles are being used by the students and the staff.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practicel: Innovation Entrepreneurship Development 1. Title of the practice: Innovation Entrepreneurship Development 2. The context that required the initiation of the practice: The Govt. of India initiation and support towards the innovation and Startups encouraged the implementation of the initiation with full swing in our institute. The scope of having more innovations in this region helps our students to get motivated to find solutions for the regional problems. Institute has a great potentiality with most of our faculty and students innovative and entrepreneurial activities taking place under Innovation and Entrepreneurship Cell (IEDC) and more number of the students with engrossed in IEDC objectives. 3. Objectives of the practice: Our practice is to have a clear Vision and Mission to nurture the

innovative spirit in students minds by creating and providing a great platform to come up with the solutions for various problems as Ideation competitions and hackathons and many of social entrepreneurial activities. Identifying the need for various local community-based markets and targeted towards the solutions.

4. The Practice: Our Institute has a well-supported ecosystem with a lot of activities towards inculcating the young minds towards Innovation for their own as well as national progress. We are with Institution Innovation Council (IIC)

is an Initiative of MHRDs Innovation Cell (MIC), MHRD, Govt. of India for selected Higher Education Institutes, to create and strengthen the culture of Innovation and Entrepreneurship ecosystem by promoting and supporting students innovations and sustainable startups from Vishnu Institute of Technology. The team of the institute including internal and external mentors have supported the stakeholders. The geographical area where our institute resides has a number of well-defined problems to be solved technologically and socially. The Institute has well planned training programs and it conducts various Ideathons and Hackathons to address local and global community issues. The Students are engaged in Idea Box events to submit their ideas for pitching their solution and making their ideas into a prototype, a product with a perfect business model to initiate their startups. The Institute creates and allocates workspaces for their work and discussions. The Institute supports the expansion of rural development innovation by The students who are keen to work in the specific path. Support to the stakeholders for driving through the community-based innovation and also support to the social entrepreneurship to promote the awareness of various benefits of rural development through innovative projects. Tie Hyderabad Chapter at Vishnu Institute of Technology supports students with Startup workshops, Boot camp sessions, Youth Entrepreneurship academy, and Bootcamp sessions are catering to enhance the knowledge about business, entrepreneurship, and new methods of enhancing ideation and innovation are provided with high mentoring support. We encourage our students to participate in TiE Grad, TiE Young Entrepreneurs, TYE Summer, Open Mic, Mentor Advisor, Deeptech SIG, Investor Connect, Knowledge Series, Leadership Series My Story entrepreneurial events at TiE Hyderabad.

5. Obstacles faced if any and strategies adopted to overcome them : One of the major problems that we have is balancing academics and entrepreneurial activities. Most of the students were interested to take over the E-Cell activities but, due to the other academic workload, they werent able to work as expected However, Govt. of India and AICTE has declared clear instructions to the institutes to add up on the attendance and allot a few weeks in a semester for the students as mandatory for participating in the entrepreneurial activities. Thus we were able to overcome the situation.

6. Impact of the practice: Students participating in various training programs, Ideathons and Hackathons to address local and global community issues actively. Also, e-cell students are conducting and participating in the Idea Box events, workshops, entrepreneur talks, and idea pitching events. Institute is creating and allotting workspace for their work and discussions. The main impact on the students of the institute can be seen as our students won many business ideations (I II Prizes) at IIT Bhubaneswar,

Won 1.5 Lac prize money with Overall championship title at TiE Hyderabad Business Idea Competition grand finale. Students were supported to participate in TiE Global completion held in California, USA. These innovations from the students lead to win Smart India Hackathon in 2019 and many teams participated in SIH finals, and 324 students participated in SIH 2019 from the institute. One team has won in Quest Global Ingenium international contest. The institute supports the students to participate in various national and international competitions to prove their mettle in making innovative products and establish their own startups.

7. Resources required: A dedicated workplace (incubation centre) and support from the faculty to mentor and encourage them towards the entrepreneurship activities. Infrastructure and Incubation centre access. Field trips to the nearest Incubation Canters to visit the startups. Best Practice2:

Campus Recruitment Training 1. Title of the practice: Campus Recruitment Training 2. The context that required the initiation of the practice : Now a days, students are technically competent but they cant get employed unless they are good at Quantitative, Logical, Verbal aptitude, writing skills, communication , resume building skills and coding skills, we have initiated this practice in our institute to improve the students aptitude and problem solving skills by inducting the aptitude classes along with regular academics. General perception of aptitude is often confused with Mathematical skills but aptitude is strengthened with general knowledge and speed mathematics. Majority of our students hail from rural background where there is meagre scope to speak in any other language except their mother tongue, therefore communication skills training in English is essential to make the students to open up and express themselves. Students need to switch from offline to virtual online campus training and virtual mentoring, progressively monitoring by the faculty and performance grades were given and make the students ready for virtual recruitment process. 3. Objectives of the practice: To improve the students aptitude, written and communication skills by providing resource material and online quizzes. To improve the students problem solving skills and empower them to tackle real-world problems. To improve the students and able to perform well at Technical interview and HR interviews through virtual learning. A one-to-one mentoring will be held to all registered students by a TP cell coordinator and the Head of the Department. 4. The Practice: Usually this practice starts from 5th semester, students will undergo training classes along with their regular academics and online material is provided for all the topics, students can access the content from anywhere using a computer or mobile. For each topic, the online quizzes are provided in three levels - easy, medium, and difficult. Students performance will be monitored by a training team and remedial classes will be conducted for the students who are weak in a particular topic. We also conduct resume building sessions, students are informed about the best practices and common mistakes to be avoided in resume building. One to one interviews by Intra and inter department faculty also help the students to overcome fear of interviews. The next major thrust is coding skills, we group the students into various levels based on their interest and capability, students who are meritorious and skilled with an aptitude for higher order coding are specially trained for niche product companies with high packages and medium and basic level students training will be focused towards employment in service level companies. Students were graded based on their performance in their virtual recorded video on Technical interviews and HR interviews. 5. Obstacles faced if any and strategies adopted to overcome them: One of the major problems that we have is balancing the academics and campus recruitment training, nothing can be ignored - during the time of academic exams we concentrate less on the training and give more importance to academics. The next obstacle is the computer resources, as majority of our training is online based, we often need more number of computers for the students to practice - as majority of the platforms can also be accessed on mobile, we encourage the students to write the exams in mobile whenever possible. Online interview requires preparedness for the timely presents but few students try to avoid the time management of certain reasons for their negligence and importance of interview, those students are properly counselled by their respective mentors by regularly pushing their carrier by encouraging them. 6. Impact of the practice: We have seen tremendous improvement in the students aptitude, written, communication, coding skills compared to earlier years where a student was given campus recruitment training for a very short period. This has significantly increased the percentage of students placed in recent years. Our placement percentages have always been above 80. We also see remarkable growth in the number of students getting placed in product companies like Amazon, Expedia, Kony labs, Coviam technologies, Open-text etc. with a high package. Students have developed new way of learning skills by adopting virtual

interviews and attains confident and preparedness to attend for virtual interviews recruitment process. 7. Resources required: A dedicated team of faculty, computers to practice, and internet connection.

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

<http://www.vishnu.edu.in/BestPractices.php>

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

Vishnu Institute of Technology has a vision to accomplish the Objectives of promoting the Quality of Technical education. It is to serve the local Community with different programs for the development of world class education in diverse engineering fields, VEDIC (Vishnu Educational Development Innovation Centre) play a vital role with its innovative programs to enhance of the faculty as well as our students. It trains out staff members to work in a collaborative environment to create rich, engaged teaching learning experience. An awareness programme on Scientific Educational Practices (SEP) for the faculty is arranged regularly by VEDIC workshops for faculty members are conducted by highly qualified Educational and Industrial Experts on several topics like Scientific Education Practices Learning and Leading, Cultivating Research Mindset, Advanced Engineering Optimization Techniques, ELab, Intrinsic Motivation for Training and Placement Officers, Supply Chain Management, Inspire Impact Introspect, Research Readiness Strategies, CAST Train the Trainer, Think Technology Transform, Advanced Research Training Course Design. CAP (Career Advancement Program): provided the students with adaptive and experiential learning strategy utilizing latest technology platforms like OpenEdX, Moodle, online forums like Piazza, hackathons, formative assessment, online coding platforms like HackerRank, data from Coursera, EdX, Code School, Udacity etc. CRT Special Campus recruitment training sessions for English, Quantitative Aptitude, Logical and Verbal reasoning and special topics in engineering have been conducted by a Team of Faculty along with academics. A total number of 439 students have been placed in Open text, EPAM, Infosys, Hyundai Mobis, Thermax, T.C.S, Capgemini, Cognizant, Accenture etc. MOOC: These courses for the subjects of all branches have been offered to students. Content has been developed and posted on Google class room, www.vishnulearning.in, www.vishnuplacements.in, MOU'S: We have created new opportunities for our students by forging MOUs with universities abroad and a planned transition towards achieving Autonomous status. This has helped us to introduce Certification programs that will encourage our faculty and students to publish papers in various International, National Conferences and Journals. Industry collaboration and Centres of Excellence: In order to make Higher education relevant to the industry, We believe in nurturing the innovative bent of mind of our students and in that direction multi disciplinary Theme Labs and Centres of Excellence (COE) such as the Assistive Technology Lab that provides Engineering Solutions for persons with disabilities, National Instrumentation, E.D.C, all these have provided opportunities for students to show case their innovative activities in collaboration with industries. Radio Vishnu 90.4 and Vishnu TV academy provided a platform for our students to develop and present educative and socially relevant content to the local community. This has tremendously impacted our students in terms of communication skills and social responsibilities. Radio programmes/content and Short films developed by students have focused on issues relevant to education, Environment, Discipline, Scientific temper and Indian Culture, Morals and Ethics.

Provide the weblink of the institution

<http://www.vishnu.edu.in/InstDistingtiveness.php>

8.Future Plans of Actions for Next Academic Year

Applying for new BTech courses To run Autonomous College in sound grounds
Getting new AICTE/UGC/DST Projects To improve Placements