



## Yearly Status Report - 2019-2020

### Part A

#### Data of the Institution

<b>1. Name of the Institution</b>		VIDYALANKAR INSTITUTE OF TECHNOLOGY
Name of the head of the Institution		Sunil Arvind Patekar
Designation		Principal
Does the Institution function from own campus		Yes
Phone no/Alternate Phone no.		022-24102321
Mobile no.		9820580658
Registered Email		principal@vit.edu.in
Alternate Email		varsha.bhosale@vit.edu.in
Address		Vidyalankar College Marg, Wadala(E)
City/Town		Mumbai
State/UT		Maharashtra
Pincode		400037
<b>2. Institutional Status</b>		

Affiliated / Constituent	Affiliated
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Dr. Sangeeta Joshi
Phone no/Alternate Phone no.	09869036269
Mobile no.	9405204023
Registered Email	sangeeta.joshi@vit.edu.in
Alternate Email	sangeetamjoshi@gmail.com

### 3. Website Address

Web-link of the AQAR: (Previous Academic Year)	<a href="http://www.vit.edu.in/images/downloads/naac-uploads/AQAR_2018-19.pdf">http://www.vit.edu.in/images/downloads/naac-uploads/AQAR_2018-19.pdf</a>
<b>4. Whether Academic Calendar prepared during the year</b>	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<a href="http://www.vit.edu.in/images/downloads/naac-uploads/Academic_Calendar_2019_20.pdf">http://www.vit.edu.in/images/downloads/naac-uploads/Academic_Calendar_2019_20.pdf</a>

### 5. Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity	
				Period From	Period To
1	A+	3.41	2019	04-Mar-2019	03-Mar-2024

### 6. Date of Establishment of IQAC

01-Jul-2014

### 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
Institute has carried out tie up with Coursera,	01-Apr-2020 01	3418

edX, for attending online courses for faculty, staff and students. All faculty completed minimum one online course and around 50		
Amendments are done for Institutionalisation of SSS and Stakeholders	02-Jun-2020 30	3418
Feedback on curriculum from all stakeholders and Feedback received from Student Satisfaction Survey (SSS) is compiled, analysed and action plan is proposed by the respective Departments	02-Jun-2020 30	3418
AQAR 2019-20 systematic data compilation, verification, validation and analysis is successfully carried out through different depts as well as through various other sources like exam, student council, NSS, accounts, placement etc.	29-Jan-2019 90	3418
Regular IQAC Meetings	02-Jun-2020 01	16
Regular IQAC Meetings	29-Jan-2019 01	16
Application to University for permanent affiliation of PG (ME) Engineering programmes 1.	31-Aug-2019 360	3418
Application to University for permanent affiliation of the two UG programmes 1.	07-Mar-2020 30	3418
Application to University of Mumbai for EXTC Ph.D. programme Centre of University of Mumbai at VIT campus, Mumbai	20-Aug-2019 360	3418
Application to UGC for receiving 2(f) and 12(B)	29-Aug-2019 360	3418
<a href="#">View File</a>		

**8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. Swati Sinha Information Technology, VIT, Mumbai	Major Project/ International Project	Research Institute for Sustainable Hum anosphere (RISH) Kyoto University	2019 365	0
<a href="#">View File</a>				

<b>9. Whether composition of IQAC as per latest NAAC guidelines:</b>	Yes
Upload latest notification of formation of IQAC	<a href="#">View File</a>
<b>10. Number of IQAC meetings held during the year :</b>	2
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

<b>12. Significant contributions made by IQAC during the current year(maximum five bullets)</b>
<p>1. Application to UGC for receiving 2(f) and 12(B). Application submitted on 29/08/19. Result is awaited. 2. Application to University of Mumbai for EXTC Ph.D. Programme Centre of University of Mumbai at VIT campus. Application submitted on 20/08/19 . Result is awaited. 3. Application to University for Permanent Affiliation of the two UG Engineering programmes. 1. Computer Engineering 2. Information Technology. Application submitted on 30/08/2018. Local Enquiry committee visited on 07/03/20. Result is awaited. 4. Application to University for Permanent Affiliation of PG (ME) Engineering programmes. Application submitted on 31/08/2019. Local Enquiry committee visit is awaited. 5. Institute has carried out tie up with Coursera, edX, for attending online courses for faculty, staff and students. All faculty completed minimum one online course and around 50 completed 2 or more courses. Total Coursera course completion 7627</p>

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<b>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</b>
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Plan of Action	Achievements/Outcomes

Workshop on "NAAC Peer Team Visit Preparations": Criteria Exhibition was proposed as an IQAC initiative.	One day workshop was conducted for three days (11/12/20, 12/12/20, 13/12/20) for different participants. Total of 150+ participants were benefitted from this workshop
Institute has carried out tie up with Coursera, edX, for attending online courses for faculty, staff and students.	All faculty completed minimum one online course and around 50% faculty completed 2 or more courses. Total Coursera course completion= 7627.
Considering the COVID 19 pandemic situation, Institute has decided to use Microsoft's Team platform for online teaching. One-week FDP on 'Modern Educational Tools and Pedagogical Practices for Online Teaching' was proposed by First Year Engineering Dept as a prerequisite for online teaching.	MS Teams platform is finalised and teams are created for all the courses of ODD semester and also for Department meetings. Rigorous training session on MS Teams was conducted on 20/06/20 and department wise doubt solving sessions were conducted on 01/07/20. FDP was conducted from 21/06/20 to 25/6/20. Total of 1800 participants registered and 700 participants (including VIT faculty) attended the FDP
Systematic data compilation, verification, validation and analysis for the AQAR 2019-20 are planned to be carried out by different depts as well as by various other sources like exam, student council, NSS, accounts, placement etc	Systematic data compilation, verification, validation, analysis and action plan preparation is carried out in IQAC meeting held on 29/01/20
Amendments were suggested for Institutionalisation of SSS and Stakeholders' feedback systems by incorporating Net promoter scheme for data analysis of the year 2019-20	Amendments were successfully carried out. Analysis of SSS and Stakeholders' feedback on curriculum for the year 2019-20 is carried out using Net Promoter Scheme. Specific Threshold value of NPS is considered for action plan
Institute and Department level internal audit through Review for the last semester and Preview for the upcoming semester	Institute and Department level internal audit (review process) was conducted for ODD semester on 17/02/20, 18/02/20 and 20/02/20 to review the targets achieved by the department as per the action plan proposed and Identified the gaps / challenges, for the targets not achieved and discussed the measures to mitigate these gaps.
Application to University for permanent affiliation of PG (ME) Engineering programmes	Application submitted on 31/08/2019 Visit of Local Enquiry Committee appointed by the University is awaited
Application to University for permanent affiliation of the two UG programmes 1. Computer Engineering 2. Information Technology	Application submitted on 30/08/2018 Local Enquiry committee visited on 07/03/20 Result awaited
Application to University of Mumbai for EXTC Ph.D. programme Centre of University of Mumbai at VIT campus, Mumbai	Application submitted on 20/08/19 (result awaited)

Application to UGC for receiving 2(f) and 12(B)	Application submitted on 29/08/19 (result awaited)
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<b>14. Whether AQAR was placed before statutory body ?</b>	Yes
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Name of Statutory Body	Meeting Date
General Body	20-Jun-2020

<b>15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?</b>	Yes
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Date of Visit	07-Mar-2020
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<b>16. Whether institutional data submitted to AISHE:</b>	Yes
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Year of Submission	2020
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Date of Submission	23-Jan-2020
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<b>17. Does the Institution have Management Information System ?</b>	Yes
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If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>1.0 Introduction Due to the ever growing and competitive nature, the education sector has always been in need of a quality solution to manage and serve the Institute resources efficiently. Today educational institution is not limited to imparting education alone, but it is adapting latest trends in IT for improving the quality of education and handling various activities of Institute including admissions, class management, library management, logistics, inventory, fee management, alumni, accounts etc. Our ERP simplifies and automates Institute administration process. The ERP is accurate and reliable and can be conveniently accessed from Institute intranet as well as from the public internet. It is fully browserbased which also includes virtual campus which can be linked with Institute portal and contains powerful online access to bring parents, teachers and students on a common interactive platform. In ERP users have</p>
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role based access rights which tightly models existing Institute hierarchy. Institute ERP is totally customizable according to the needs of Institute.

1.1 Major Benefits: • Transparency in Institute operations. • Availability of real time up to date information. • Better management of Institute academic process administration. • Instant access to required information and activities of the Institute • A centralized system which makes reporting possible at one place. • Easy access through a web browser having an Internet connection. • Online Registration, easy follow up and Admission. • Efficient computing centralized storage, high memory and fast process. • Integration of Academic Calendar, Notices and other activities.

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## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Planning and Implementation

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

The Institution has a well-structured curriculum delivery plan. To strengthen curriculum following steps are undertaken: 1. Planning: Stage-1: Academic calendar and subject allotment The Institute prepares its own Academic Calendar in alignment with the University's calendar. Subject allocation is done based on their expertise and experience. Stage-2: Preparation of draft Academic Administration Plan (AAP) Every subject teacher prepares the draft AAP based on the AAP of the earlier years. AAP includes many components starting with course objectives & outcomes to evaluation schemes for grading. Stage -3: Interactive Cluster Meetings for identifying gaps and strengthening of AAP. As a part of process cluster meetings are conducted every semester. During 19-20, few clusters are merged and hence presently Institute has 45 Clusters. Gaps in the curriculum are identified through structured feedback on curriculum from different stakeholders. Feedback is analysed through Net Promoter Score (NPS) and accordingly line of action is planned by respective departments for further improvement. Inputs received from Departmental Advisory Board (DAB) members and cluster mentors are used to plan Beyond Syllabus Activities (BSAs) to strengthen AAP. Stage-4: Academic Preview Process (APP) Emphasizing on the significance of meticulous academic planning, constructive feedback and continuous improvement, APP is conducted at the beginning of each semester as an IQAC initiative. A panel comprising Departmental Academic Officer (DAO) and Head of the Department (HOD) verifies and validates the AAP with standard Preview format and suggestions are given, if required. Stage-5: Transition to Online Mode Due to unprecedented incidence in March 2020, the classroom content delivery had been shifted to online platforms such as MS-Teams. The institute has also organised one-week workshop on "Modern Education Tools and Pedagogical Practises for Online Teaching "to facilitate all the teachers across the country to get acquainted with online pedagogy. This has helped immensely to make the online teaching effective with the use of new technologies. 2. Dissemination of AAP: The finalized AAP is uploaded on the Institute's internal portal (vRefer and vLive) and is also discussed during the first lecture. 3. Curriculum Delivery: To ensure that the Student plays an active role in the learning Process, curriculum delivery is made more effective through: • Conventional Methods: Lectures/Lab Session/Tutorials are in place • Curriculum Enrichment: o Various BSAs are planned for enhancing the curriculum delivery. o Student Centric learning Methods like Experiential, Participative/Collaborative and Problem Based Learning are in practice. o During pandemic, institute has taken up the quality initiative to establish linkage with online MOOC platforms such as Coursera, edX and MathWorks Faculty and students were encouraged to undertake the courses in their relevant fields for value addition. 4. Monitoring implementation of Curriculum delivery: Monitoring implementation of curriculum delivery: Academic coordinators closely monitor (fortnightly)



content delivery of the courses and give feedback to HOD. 5. Monitoring effectiveness of student learning: Continuous evaluation is done through formative (Internal Assessment) and summative (Term work evaluation) assessment methods. 6. Feedback and Takeaway: Content delivery Feedback is analysed through following processes- • Periodic Students' feedback • Course Exit Survey • Academic

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entrepreneurship	Skill Development
Basics of Python using Azure	Nil	17/05/2020	5	Employability	Working environment of Jupyter Notebook, anaconda and pyspark, creating data frames and the basic operations, manipulation of data frames. Applying the knowledge learned and applying it on Microsoft Azure by exploring its interface, understanding basic
Data Base Management	Nil	18/01/2020	3	Entrepreneurship	To organize, store and retrieve data using Database Management and various operations and security practices of a Database Administrator (DBA)
NSDL Certification in Capital Market	Nil	06/01/2020	5	Employability	Whether an individual has adequate knowledge of depository operations, to be able

to service investors

To provide students practical hands on learning experience with high impact learning on excel based on real life business cases.

Raspberry pi programming and Embedded C, Arduino interfacing, IOT application development

Python programming for Applications

Python programming for Data Science Applications

Various algorithms and types of machine learning using Python Programming for applications

Image processing techniques using Python with open CV and Pillow libraries

Raspberry pi programming and Embedded C, Arduino interfacing,

Financial Modelling Equity research

Nil

09/12/2019

4

Employabilty

Embedded Design/IoT Microchip Certification

Nil

01/12/2019

8

Entrepreneurship

Core Python Programming

Nil

01/12/2019

5

Employabilty

Data Science Visualization using Python Programming

Nil

01/12/2019

5

Employabilty

Machine Learning using Python Programming

Nil

01/12/2019

5

Employabilty

Image Processing with OpenCV Pillow using Core Python

Nil

01/12/2019

5

Employabilty

Embedded/IoT Designing using Arduino Raspberry-Pi-3

Nil

01/12/2019

5

Entrepreneurship

Python with Data Analytics IBM Certification	Nil	29/11/2019	8	Employability	IOT application development Python programming for Data Science Applications
PCB Designing	Nil	03/08/2019	3	Employability	PCB Designing skills

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
<b>No Data Entered/Not Applicable !!!</b>		
<a href="#">View File</a>		

### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Information Technology (UG and PG)	01/07/2019
BE	Computer Engineering (UG and PG)	01/07/2019
BE	Electronics Engineering (UG)	01/07/2019
BE	Electronics and Telecommunication Engineering (UG and PG)	01/07/2019
BE	Biomedical Engineering (UG)	01/07/2019
MMS	PG Programme	01/07/2019

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

	Certificate	Diploma Course
Number of Students	360	Nil

## 1.3 – Curriculum Enrichment

### 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
AMCAT Training	07/03/2020	158
Presentation Session on Campus Grooming	07/03/2020	89
Technical Personal Grooming	20/02/2020	339
Group Discussion	22/01/2020	459
Corporate Technical	29/11/2019	8

Training Program in Data Analytics with Python		
AMCAT Training-MMS	19/08/2019	97
Smartwayz Session	16/08/2019	74
AMCAT Training	20/07/2019	583
Campus Credentials	09/07/2019	208
<a href="#">View File</a>		

### 1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BE	Information Technology	284
BE	Computer Engineering	276
BE	Electronics Engineering	264
BE	Electronics and telecommunication Engineering	281
BE	Biomedical Engineering	93
BE	First Year Engineering	24
MMS	Master of Management Studies	106
<a href="#">View File</a>		

### 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
<p>The feedback on curriculum is collected from students, teachers, alumni, employer and parents, analysed and action plan is presented in the IQAC meeting for the deployment of activities to mitigate the gaps. 1. Redesign of Stakeholders' feedback form Incremental improvements are carried out in the design of feedback form for different stakeholders such as students, teachers, alumni, and parents. The form mainly comprises three sections Part A- Resources and administration, Part B- Curricular Aspects, Part C- Major qualitative remarks or suggestions. Under these three sections, different attributes are articulated for different stakeholders. 2. Data compilation and Analysis of stakeholders' feedback Data compilation for different stakeholders is carried out at respective departments. Analysis is carried out for quantitative as well as qualitative responses. The quantitative analysis is carried out by using Net Promoter Score (NPS) metric to identify percentage of promoters (Score 3-4), Passives (Score 2) and detractors (Score 0-1). The threshold value of NPS is considered as 60 for all stakeholders for all the departments. The qualitative</p>

analysis is carried out for the major remarks or suggestions as mentioned in the section part C of the feedback form. 3. Preparation of Action Plan and presentation in IQAC meetings All heads of the department presented the detailed action plan in the IQAC meeting. The same is finalised for deployment in the subsequent semester. Stakeholders' expectations as regard to curriculum shall be mainly satisfied through organisation of various value added/bridge courses in emerging areas/cutting edge technologies, strengthening the industry-academia interface through increased industrial visits including virtual visits and internships. 4. Utilization of stakeholders' feedback for Institutional development The stakeholders' feedback is utilised to prepare the action plan and the same is disseminated to each department for the deployment. Along with curriculum, the feedback on resources and administration shall also be utilised for the overall development of the Institute. The institute has taken initiatives through various technical activities for overall development of students. The value added courses, Internships and technical talks from industry experts are conducted to provide exposure on recent industrial trends and mitigate curriculum gaps. Also, alumni Interactive Sessions, Hackathons/coding competitions are introduced to bridge the gap between prescribed syllabus and current trends. A coding club is established to nurture the coding skills through peer learning and guidance by domain experts. The concept of glamor companies is introduced for identification of the skill set required for placement in these companies. Faculty have collected information of skill set required for the companies such as Byjus, Nvidia, Toppr technology, Intel, Jaro Education, LTI etc. Institute also has carried out tie up with Coursera and edX for attending online courses for faculty, staff and students. All faculty completed minimum one online course and around 50 faculty completed two or more courses. Considering the COVID 19 pandemic situation, Institute has decided to use Microsoft's Team platform for online teaching. Rigorous Training session on MS Teams and one-week FDP on 'Modern Educational Tools and Pedagogical Practices for Online Teaching' was conducted for faculty.

## 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
<b>No Data Entered/Not Applicable !!!</b>				
<a href="#">View File</a>				

### 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	2870	395	135	17	1

### 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-	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
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	Resources)				
153	153	12	44	23	22
<a href="#">View File of ICT Tools and resources</a>					
<a href="#">View File of E-resources and techniques used</a>					

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

Student Mentoring System is available in the Institution. Faculty works as a mentor and Professional Counsellor is also available on campus. Mentoring involves guiding students on academic requirements, professional development, psychological requirements, personal guidance etc. Mentoring handbook is available to facilitate mentors. Every Department assigns a mentor to a group of 15 – 20 students. The mentor provides guidance to students in terms of technical support, empathy and respect that helps students to focus on how to succeed in their graduate program, to excel in their field of study, to recognize and choose among career options, and to explore their talents and hidden skills through various opportunities/ platforms available.

1. Frequency of meetings: Every mentor conducted minimum of 3 meetings with the assigned mentee group i.e. at the beginning of the semester, after the first Internal Assessment examination to evaluate performance, and at the end of the semester to assess overall outcomes. Meetings were held in an appropriate meeting environment to make students more comfortable to express their feelings and views. Even online mentor-mentee meetings have been conducted in pandemic situation.

2. In-Meeting Process: In the first meeting, the mentor collects data from his/her mentee group, which included information about their family, Other Home University (OHU) status, academic information, skill set, hobbies, and their achievements. After this, in every subsequent meeting the mentor discusses with mentees about different issues like attendance, health issues, behaviour or attitude issues, and drop, if any, in academic year etc. Mentor also makes mentees aware about Intensive Educational Development Programme (IEDP) through which remedial sessions for KT subjects were arranged as well as academic calendar of the institute through which knowledge about different activities on campus is disseminated. Mentor understands the potential of the mentees in terms of slow and advance learners and ensures that the mentee excels in academic, societal aspects, co-curricular, and extracurricular fields. Whenever required, the mentor also referred a mentee to the Professional Counsellor to get in tune with their skills and expectations as well as help them in behavioural and emotional aspects.

3. Mentor-Mentee Meeting Reports: After every meeting, the mentor fills up “Mentor-Mentee Meeting Report”, which indicates action plan on discussed problems, timetable of remedial sessions and includes areas of improvement with activities planned. At the end of semester, every mentor prepares a “Feedback Report” based on the previous “Mentor-Mentee Meeting Report”, indicating plan of improvement for academically weak students and slow learners as well as special measures for advanced learners to further excel. Many cases have proven the positive impact of mentoring on students, which includes greater self-esteem and social-emotional development benefits, with some remarkable turnarounds in certain cases. Mentoring process gives glimpse into the emotional well-being of every student to a mentor.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3265	153	1 : 21

**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
153	153	Nil	1	25

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	Ajay Dhuv	Assistant Professor	Excellent paper Award World Research Forum For

			Science and Engineering Title Dynamic Pricing Intelligence Approach in E-commerce market using KNN.
2020	Rohit Barve	Assistant Professor	3rd prize at Symbiosis Institute of Technology Pune Title E-Agronomy
2020	Dilip Motwani	Associate Professor	Ph.D Mumbai university
2020	Dr. Sanjay Singh Thakur	Professor	Reviewer for Journal of Engineering Science of Technology.
2020	Dr. Arpit Rawankar	Associate Professor	Diagnosis of Asthma Monitoring of respiration Parameter Kalinga Institute of Industrial Technology, Bhubaneswar. 9th Project Innovation contest 2020 1st prize
2020	Dr. Saurabh Mehta	Professor	Resource person for Shifting Teaching-Learning Paradigms through Innovative Pedagogy by IEEE Bombay Section,
2020	Beena Balla	Assistant Professor	Resource person for Shifting Teaching-Learning Paradigms through Innovative Pedagogy by IEEE Bombay Section,
2020	Atul Oak	Assistant Professor	Resource person for Shifting Teaching-Learning Paradigms through Innovative Pedagogy by IEEE Bombay Section,
2020	Vibha Wali	Assistant Professor	Resource person for Shifting Teaching-Learning Paradigms through Innovative Pedagogy by IEEE Bombay

2020	Dr Sangeeta Joshi	Professor	Section, Resource Preson at conference on Best Practices in Higher Education Mahatma Gandhi Vidya Mandir's Loknete Vyankatrao Hiray Arts, Science and Commerce College, Nashik
<a href="#">View File</a>			

## 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
BE	3139246	FE	18/04/2020	02/10/2020
BE	3139246	SE	18/04/2020	07/09/2020
BE	3139246	TE	18/04/2020	07/09/2020
BE	3139246	BE	18/04/2020	17/11/2020
BE	3139245	FE	18/04/2020	02/10/2020
BE	3139245	SE	18/04/2020	07/09/2020
BE	3139245	TE	18/04/2020	07/09/2020
BE	3139245	BE	18/04/2020	13/11/2020
BE	3139376	FE	18/04/2020	02/10/2020
BE	3139376	SE	18/04/2020	07/09/2020
<a href="#">View File</a>				

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

To ensure continuous improvement of efficiency and effectiveness in assessment of Teaching, Learning and Evaluation Processes and quality of students, Institute has introduced various initiatives in carrying out the reforms/changes in CIE as follows: 1. Reforms in Internal Assessment Test: a) Multiple modes of notification and Model Solution: IA Test schedule is notified through Academic Calendar, AAP, Orientation program and the Student portal (vLive2). Also, faculty provide model solution on vRefer after IA test. b) Audit: Question Papers are audited by the respective Cluster Mentors to verify and validate question paper standard. 2. Reforms in Term Work: a) For Course: All experiments are designed to evaluate the attainment of the desired Course Outcomes. Problem Based Learning experiments and minimum 2 new experiments are introduced every year. b) For Final Year Projects: In order to make students projects more productive and useful to the society as well as industry, industrial experts have been invited to validate the project ideas of the students. This innovative approach helped students to invest their project man hours more meaningfully towards product development. Subsequently these experts are also involved for reviewing projects periodically, including pandemic period. 3. Other Reforms: • Multiple beyond syllabus activities are conducted



to make the CIE more robust and improve the effectiveness of learning in offline and online mode. • Online content delivery along with continuous internal evaluation has been carried out for theory and practicals using MS-Teams platform during pandemic.

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

As per the Calendar of the University, the Institution prepares its academic calendar at the beginning of the semester. Planning: The academic calendar is exhaustive comprising of examinations including IA test, term work and practical exams, project reviews and all other activities decided by the respective process owners and is prepared by Principal, CAO, HODs and Cluster Mentors. Dissemination: is done to the students through website, Induction programmes and vLive. Implementation: Exam cell ensures adherence to the academic calendar by timely conducting various exams. Other planned activities are also timely deployed by the activity process owners. Monitoring: All activities are closely monitored and corrective actions, if any, are taken immediately through faculty/student counselling. Due to pandemic, adherence to academic calendar was deviated as teaching has been switched to online mode. The institute responded promptly and positively to this situation by conducting FDPs. One-week FDP titled "Modern Educational Tools Pedagogical practices for Online Teaching" was conducted to facilitate faculties to keep pace with the revolutionary transformation in delivering education. One day workshop was also conducted on "Microsoft Application for Education "For demonstrating different utilities and applications. This demonstration became very useful for every faculty to successfully tackle the online teaching. Being a student centric institute, faculties have developed recorded lecture videos, concept videos, online quizzes and uploaded on institute YouTube channel as well as on Institute's internal repository for the students. Preceding Years' classroom recorded lectures on Impartus are also made available to the students.

## 2.6 – Student Performance and Learning Outcomes

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

[https://www.vit.edu.in/images/downloads/naac-uploads/2.6.1\\_19-20.pdf](https://www.vit.edu.in/images/downloads/naac-uploads/2.6.1_19-20.pdf)

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
3139102	MMS	Master of Management Studies	107	107	100
3139372	ME	Electronics & Telecommunication Engineering	3	3	100
3139245	ME	Computer Engineering	4	4	100
3139246	ME	Information Technology	9	9	100

3139461	BE	Bio-Medical Engineering	58	58	100
3139372	BE	Electronics & Telecommunication Engineering	202	202	100
3139376	BE	Electronics Engineering	175	173	98.85
3139245	BE	Computer Engineering	215	214	99.53
3139246	BE	Information Technology	209	209	99.04
<a href="#">View File</a>					

## 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://www.vit.edu.in/images/downloads/naac-uploads/Student-Satisfaction-Survey-2019-20.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	365	Research Institute for Sustainable Hum anosphere (RISH) Kyoto University, Japan	0	0
Major Projects	365	Indian Institute of Geomagnetism, Mumbai	0	0
Major Projects	365	Indian Institute of Geomagnetism, Mumbai	0	0
Major Projects	365	Indian Institute of Geomagnetism, Mumbai	0	0
Major Projects	365	Indian Institute of Geomagnetism,	0	0

		Mumbai		
Major Projects	365	Indian Institute of Geomagnetism, Mumbai	0	0
<a href="#">View File</a>				

### 3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Workshop and Hands on session on Blender	Master of Management studies	27/09/2019
Seminar on Career Management Skills Employability Competence	Master of Management studies	01/10/2019
Seminar on Materials Management	Master of Management studies	11/10/2019
Seminar on NSDL	Master of Management studies	14/10/2019
Envoyage activity in co-ordination of IIT Bombay	Master of Management studies (E-cell)	24/01/2020
Seminar on Entrepreneurship details	Master of Management studies (E-cell)	05/03/2020
Professional Attire and Grooming (Short Seminar Series)	First year Engineering department	28/02/2020
Table Etiquette (Short Seminar Series)	First year Engineering department	28/02/2020
Seminar on Latest Trends in VLSI Industry	Electronics and Telecommunication Engineering	08/08/2019
Seminar on Tools and Methods used in Cyber Security	Electronics and Telecommunication Engineering	27/08/2019
Workshop on MATLAB	Electronics and Telecommunication Engineering	31/08/2019
Seminar on Advanced Technologies used in 4G mobile communication	Electronics and Telecommunication Engineering	01/10/2019
Seminar on Artificial Intelligence	Electronics and Telecommunication Engineering	10/10/2019
Workshop on AutoCAD	Electronics and Telecommunication Engineering	11/01/2020
Workshop on Database Management System	Electronics and Telecommunication Engineering	08/01/2020

Awareness on UPSC/MPSC (Short Seminar Series)	First year Engineering department	09/03/2020
Webinar on Positive outlook towards transforming current challenges into opportunities	First year Engineering department	23/05/2020
Webinar on Create an Impactful Online Persona through Digital Profiling	First year Engineering department	20/06/2020
Workshop on Network Reconnaissance and Penetration Testing	Information Technology	03/08/2019
Seminar on Microcontroller and Embedded Programming and IOT Lab	Information Technology	19/09/2019
Seminar on M-Indicator : Technicalities of Mobile based Urban Transportation Platform	Information Technology	25/09/2019
Seminar on Java App Development	Information Technology	05/10/2019
Workshop on Cyber Security in Layered Architecture	Information Technology	05/10/2019
Seminar on Prism of Possibilities	Information Technology	18/01/2020
Seminar conducted on Digital Marketing	Information Technology	25/01/2020
Hands-on Workshop on Internet of Things (IoT)	Information Technology	05/02/2020
Workshop On DevOps	Information Technology	15/02/2020
Workshop on Cloud Tools and Software Configuration Management	Information Technology	18/02/2020
Seminar on Understanding OS Application in IT Industry	Information Technology	28/02/2020
Seminar on Sensor Networking	Information Technology	13/03/2020
Seminar on Fundamentals of Networking	Information Technology	13/03/2020
Online hands on Faculty development program on Advance Technologies in IT. Topics: Cloud computing, Version Control and Containerization Advance HTML, Blockchain	Information Technology	09/05/2020

Technology , Internet of Things , Deep Learning		
Webinar on Basics of Python using Azure	Information Technology	17/05/2020
Webinar on Email writing and self grooming	Information Technology	17/05/2020
Webinar Series on the Topic :- Knowledge Express: Getting Ready for the Industry	Information Technology	18/05/2020
Webinar on Design Thinking	Information Technology	18/05/2020
Webinar on Technical Paper Writing	Information Technology	19/05/2020
Webinar on Industrial Approach to Big Data	Information Technology	20/05/2020
Webinar on How to crack Technical Interviews	Information Technology	21/05/2020
Webinar on Flutter	Information Technology	30/05/2020
Webinar Series on the Topic :- Crazy Programmer Is Mini Project	Information Technology	01/06/2020
Workshop On Microsoft Application for Education	Information Technology	20/06/2020
Seminar on Programming and its industry applications	Computer Engineering	09/08/2019
Seminar on Digital Profile Building	Computer Engineering	21/08/2019
Workshop on Pydata and Google Study Jam on Cloud	Computer Engineering	31/08/2019
Seminar on SAP and ABAP Programming	Computer Engineering	18/09/2019
Seminar on Computer Networking and Security	Computer Engineering	19/09/2019
Workshop on Blockchain	Computer Engineering	24/09/2019
Workshop and Hands on session on Blender	Computer Engineering	27/09/2019
CyberFrat Conference	Computer Engineering	05/10/2019
Coding Ninjas Workshop	Computer Engineering	25/01/2020
DevOps Technology-The Next Decade	Computer Engineering	28/01/2020
Architecting Scalable Applications With FIREBASE.	Computer Engineering	29/02/2020
Understanding Security methodologies in digital payments and Penetration	Computer Engineering	02/03/2020

Testing Tools		
ERP implementation on Cloud	Computer Engineering	03/03/2020
Distributed Systems in Industry	Computer Engineering	04/03/2020
Seminar On How To Write A Technical And Research Paper	Computer Engineering	06/03/2020
Alexa Skills Webinar	Computer Engineering	04/04/2020
Webinar on New Emerging Trends and Technologies	Computer Engineering	20/04/2020
Seminar on Application of Power Electronics	Electronics Engineering	30/07/2019
Seminar on Need of Electronics in Industry	Electronics Engineering	30/07/2019
Seminar on Control of Mobile Robots	Electronics Engineering	06/08/2019
Seminar on Artificial Intelligence : Present and Future	Electronics Engineering	09/08/2019
Seminar on Real Time applications of Digital Control Systems: Design of Controllers	Electronics Engineering	19/08/2019
Seminar on Ethical Hacking	Electronics Engineering	27/08/2019
Seminar on Microcontrollers, Embedded Systems and IoT	Electronics Engineering	28/08/2019
Seminar on Two-dimensional Layered Materials (2DLMs)	Electronics Engineering	29/08/2019
Seminar on Industrial Digital Circuit Design	Electronics Engineering	30/08/2019
Workshop on Data Visualization using Python	Electronics Engineering	14/09/2019
PLC Workshop	Electronics Engineering	12/10/2019
Adobe Photoshop CC 2019 Workshop	Electronics Engineering	25/01/2020
IRIS 2020 - Inspire, Resonate, Integrate, Succeed (Seminar series)	Electronics Engineering	01/02/2020
Tech talk on Blockchain	Electronics Engineering	11/03/2020
Proteus Workshop	Electronics Engineering	12/03/2020
Workshop on Android App development	Electronics Engineering	14/03/2020
Seminar on " Embedded	Electronics Engineering	28/03/2020

Systems and RTOS - Industry Point of view" in the subject of Embedded System and RTOS		
PCB Designing Webinar on Eagle software	Electronics Engineering	12/06/2020
Seminar on Industrial approach in Electronics	Electronics and Telecommunication Engineering	30/07/2019
Workshop On PCB Designing	Electronics and Telecommunication Engineering	03/08/2019
Seminar on Industrial applications of Digital Systems	Electronics and Telecommunication Engineering	08/08/2019
Seminar on Ethical Hacking	Biomedical Engineering	27/08/2019
Seminar on Optical Trapping and nano Machines	Biomedical Engineering	09/09/2019
Workshop on AED	Biomedical Engineering	14/09/2019
Workshop on Applied facets of IC Technology	Biomedical Engineering	14/09/2019
Seminar on Project Presentation	Biomedical Engineering	25/09/2019
Seminar on Ventilator	Biomedical Engineering	30/09/2019
Seminar on Point of Care Technologies-Biosensors	Biomedical Engineering	09/10/2019
Seminar on Unleashing the Power Within	Biomedical Engineering	25/01/2020
Demonstration and Hands-On Workshop on Patient Simulator and Defibrillator Analyzer by Fluke Medicals	Biomedical Engineering	07/03/2020
IMPULSE - Seminar by Medtronics	Biomedical Engineering	07/03/2020
Hands-on workshop Biosense	Biomedical Engineering	07/03/2020
Seminar on Importance of Management in current environment	Master of Management studies	05/08/2019
E-cell Out reach activity	Master of Management studies (E-cell)	20/08/2019
Seminar on Importance of Digital Marketing	Master of Management studies	26/08/2019
Seminar on Basics of Entrepreneurship	Master of Management studies (E-cell)	27/08/2019
Seminar on Overview of	Master of Management	18/09/2019

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Best Project Award in E-Summit 20 Blockchain Hackathon, 2nd Position	Preyash Gothane, Swapnil G Anamika K	E-Summit-20 IIT Bombay, Maharashtra, India.	01/02/2020	Students
Excellent paper award Dynamic Pricing Intelligence Approach in E-Commerce market using KNN	Rahul Jadhav, Moh. Harris, Arpit Vaishya, Ajay Dhruv	World Research Forum For Science and Engineering (WRFASE) International Conference, 23rd February 2020, Mumbai, India	23/02/2020	Students and Guide
Best Paper writing competition award secured 1st Rank	Aishwarya Pardeshi, Kalpak Tole	Department of Electronics Engineering, Government Polytechnic Mumbai, Maharashtra, India.	02/06/2020	Students
Best Online Presentation on Diagnosis of Asthma Monitoring of respiration Parameter 1st Runner up with cash prize Rs. 5000	Saili Mandavkar, Sanyukta Sharma, Pradnya Killedar, Arpit Rawankar, Mohit Gujar, Neelam Punjabi	Impetus and Concepts 2020, A National Level Technical Symposium at Pune Institute of Computer Technology, Pune, Maharashtra, India.	13/06/2020	Students and Guide
1st prize for V Eureka-Intra departmental Technical Idea Competition	Varun Soni, Praitosh Hattayangadi, Mohak Sisodia	Vidyalankar Institute of Technology, Mumbai, Maharashtra, India.	16/05/2020	Students
3D Design Competition	Mr. Newton Singh	Terna Engineering College, Mumbai, Maharashtra, India.	01/05/2020	Students
Best project demo on Diagnosis of Asthma	Saili Mandavkar, Sanyukta Sharma, Pradnya	Girl's Project Competition organised by	10/03/2020	Students and Guide



Monitoring of respiration Parameter 1st Prize with cash prize Rs. 4000.	Killedar, Arpit Rawankar, Mohit Gujar, Neelam Punjabi	ISTE, IETE Chapters and ICC Cell at KES Rajarambapu Institute of Technology, Rajaramnagar, Sakharale, Maharashtra, India.		
Best Faculty of the Year Thought leader award	Anuradha Bhatia	Technext India 2019 , Computer Society of India (CSI) Mumbai, India.	28/09/2019	Faculty
Best Student Project Award for Real time sign language estimation system	Prof. Kavita Shirsat	Technext India 2019 , Computer Society of India (CSI) Mumbai, India.	28/09/2019	Faculty
Best Institute of the Year Award	Vidyalankar Institute of technology	Technext India 2019 , Computer Society of India (CSI) Mumbai, India.	28/09/2019	Institute
<a href="#">View File</a>				

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

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Nil	Nil	Nil	Nil	Nil	Nil
<a href="#">View File</a>					

### 3.3 – Research Publications and Awards

#### 3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
72721	27183	3042

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

Name of the Department	Number of PhD's Awarded
Information Technology	Nil
Computer Engineering	Nil
Electronic and Telecommunication Engineering	Nil
Electronic Engineering	Nil
First year Engineering	Nil
Mastersin Manamngment Studies	Nil

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

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Information Technology	9	5.87
International	Computer Engineering	28	5.87
International	Electronics Engineering	5	5.87
International	Electronics and Telecommunication Engineering	8	5.28
International	First Year Engineering	2	2.87
International	Master in Management Studies	1	7.81
<a href="#">View File</a>			

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

Department	Number of Publication
Information Technology	2
Computer Engineering	20
Electronics Engineering	9
Electronics and Telecommunications Engineering	24
First Year Engineering	5
<a href="#">View File</a>	

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

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Printed Ring Monopole Antenna for Medical Application	Sanjay S. Thakur	SCOPUS: Journal of Emerging Technologies and Innovative Research (JETIR) ISSN: 0971-1260 International Journal of Emerging Technologies and Innovative	2019	0	Vidyalankar Institute of Technology, Mumbai	Nil

		Research I SSN:2349-5 162				
Design Process for Electronic System	Amit Maurya Harshada Rajale, Tejal Page Sanjay S. Thakur	SCOPUS: Journal of Emerging Technologies and Innovative Research (JETIR)	2019	0	Vidyalan kar Institute of Technology, Mumbai	Nil
ITC: Infused Tangential Curves for Smooth 2D and 3D Navigation of Mobile Robots	Arpit Rawankar	Sensors MDPI (SCI indexed) ISSN 1424-8220	2019	3	Vidyalan kar Institute of Technology, Mumbai	1
A hybrid Classification Model for Prediction of Academic Performance of Student : a Big data application?	Deepali Vora	Springer (Evolutionary Intelligence)	2019	1	Vidyalan kar Institute of Technology, Mumbai	1
Analyzing Impact of Spatial Correlation for Multi-user Environment with Robust Concatenation of Advanced FEC Schemes	Saurabh Mehta	Springer (SCI indexed) Wireless Personal Communication	2019	0	Vidyalan kar Institute of Technology, Mumbai	Nil
Deep Learning based Approaches to Recomender System?	Deepali Vora	Springer (Evolutionary Intelligence)	2019	1	Vidyalan kar Institute of Technology, Mumbai	1
Modified Trident UWB	Sanjay S. Thakur	Springer (SCI indexed)	2019	2	Vidyalan kar Institute	2

Printed Monopole Antenna		Wireless Personal Communication			of Technology, Mumbai	
Multi-Resonation UWB Printed Monopole Antenna	Sanjay S. Thakur	Springer (SCI indexed) Wireless Personal Communication	2019	0	Vidyalankar Institute of Technology, Mumbai	Nil
Dual Feed Dual Polarized Printed Antenna	Sanjay S. Thakur	SCOPUS: International Journal of Recent Technology and Engineering (IJRTE)	2019	0	Vidyalankar Institute of Technology, Mumbai	Nil
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Modified Trident UWB Printed Monopole Antenna	Sanjay S. Thakur	Springer (SCI indexed) Wireless Personal Communication	2019	Nil	2	Vidyalankar Institute of Technology, Mumbai
Multi-Resonation UWB Printed Monopole Antenna	Sanjay S. Thakur	Springer (SCI indexed) Wireless Personal Communication	2019	Nil	Nil	Vidyalankar Institute of Technology, Mumbai
ITC: Infused Tangential Curves for Smooth 2D and 3D Navigation of Mobile Robots	Arpit Rawankar	Sensors MDPI (SCI indexed) ISSN 1424-8220	2019	Nil	Nil	Vidyalankar Institute of Technology, Mumbai
Design Process for Electronic System	Amit Maurya Harshada Rajale, Tejal Page	SCOPUS: Journal of Emerging Technologies and	2019	Nil	Nil	Vidyalankar Institute of Technology,

	Sanjay S. Thakur	Innovative Research (JETIR)				Mumbai
Printed Ring Monopole Antenna for Medical Application	Sanjay S. Thakur	SCOPUS: Journal of Emerging Technologies and Innovative Research (JETIR) ISSN: 0971-1260 International Journal of Emerging Technologies and Innovative Research ISSN:2349-5162	2019	Nil	Nil	Vidyalankar Institute of Technology, Mumbai
Analyzing Impact of Spatial Correlation for Multi-user Environment with Robust Concatenation of Advanced FEC Schemes	Saurabh Mehta	Springer (SCI indexed) Wireless Personal Communication	2019	Nil	Nil	Vidyalankar Institute of Technology, Mumbai
A hybrid Classification Model for Prediction of Academic Performance of Student : a Big data application?	Deepali Vora	Springer (Evolutionary Intelligence)	2019	Nil	1	Vidyalankar Institute of Technology, Mumbai
Deep Learning based Approaches to Recommender System?	Deepali Vora	Springer (Evolutionary Intelligence)	2019	Nil	1	Vidyalankar Institute of Technology, Mumbai
Dual Feed Dual	Sanjay S. Thakur	SCOPUS: Internatio	2019	Nil	1	Vidyalankar

Polarized Printed Antenna	Journal of Recent Technology and Engineering (IJRTE)	Institute of Technology, Mumbai
<a href="#">View File</a>		

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	12	134	28	52
Presented papers	10	3	Nil	Nil
Resource persons	3	9	5	5
<a href="#">View File</a>				

### 3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Voter Registration Drive	Project Mumbai and State Election Commission(SEC).	1	22
Reforestration Drive	Swapna Vana Foundation under Vana Mahotsav, an initiative by Department of Forest, Maharashtra	1	11
Thalassemia checkup and Awareness camp	Parent Association Thalassemic Unit Trust (PATUT) and TransAsia Bio-Medicals Ltd.	1	5
Ganpati Visarjan Voluntering	National Service Scheme, VIT Unit under University of Mumbai	1	21
Bottles for Change	Bisleri International, Andheri Mumbai	1	5
Independence Day Celebration	National Service Scheme, VIT Unit under University of Mumbai	98	267
FE Oreintation	National Service	1	18

Program	Scheme, VIT Unit under University of Mumbai		
E-waste Collection	Eco Recycling Ltd, Andheri Mumbai	48	367
Orphanage Visit	Sant Ghadge Maharaj Orphanage, Kurla Mumbai	1	19
Be-Fearless 2.0	National Service Scheme, VIT Unit under University of Mumbai	20	200
<a href="#">View File</a>			

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

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Medical checkup camp	Recognition letter	Lions Club of Shivaji Park, Mumbai	5
E-waste Collection	Recognition letter	M/S Eco Reco Ltd, Andheri, Mumbai	367
Beach Clean-up Drive	Recognition letter	Beach Please Committee, Mumbai	18
Orphanage Teaching	Recognition letter	Shri Sant Gadge Maharaj Orphanage	19
Upliftment of rural area during camp	Recognition letter	Kotwalwadi Trust,	20
Polio Vaccination Drive	Recognition letter	Antop Hill Municipal Hospital, Mumbai	18
Social Audit	Recognition letter	Pratham Education Foundation, Mumbai	8
Community Service during pandemic	Recognition letter	MLA, Graduate Constituency, Thane	Nil
<a href="#">View File</a>			

3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Social Awareness	Sant Ghadge Maharaj Orphanage, Kurla Mumbai	Teaching to Orphanage children	3	21
Social Awareness	University of Mumbai, in association	Youth Alone Can	1	5

	with ICSSR (Indian Council Of Social Science Research)			
Social Awareness	Project Mumbai and State Election Commission(SEC)	Voter Registration Drive	1	22
Enviromental awareness	Swapna Vana Foundation under Vana Mahotsav, an initiative by Department of Forest, Maharashtra	Reforestration Drive	1	11
Health awareness	Parent Association Thalassemic Unit Trust (PATUT) and TransAsia Bio- Medicals Ltd., Mumbai	Thalassemia checkup and Awareness camp	1	5
Social Awareness	National Service Scheme, VIT Unit under University of Mumbai	Ganpati Visarjan Voluntering	1	21
Enviromental awareness	Bisleri International, Andheri Mumbai	Bottles for Change	1	5
Enviromental awareness	Eco Recycling Ltd, Andheri Mumbai	E-waste Collection	48	367
Social Awareness	Sant Ghadge Maharaj Orphanage, Kurla Mumbai	Orphanage Visit	1	19
Health awareness	National Service Scheme, VIT Unit under University of Mumbai	Be-Fearless 2.0	20	200
<a href="#">View File</a>				

### 3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Research , Microwave Remote	Prof. Akhil Masur kar, Vidyalkar	Utilization of lab of Veermata	52



Sensing	Institute of Technology , Mumbai	Jijabai Technological Institute (VJTI, Mumbai) for Ph.D. research and collaboration on non-funding basis	
Research ,Detection and classification of voice disorder using acoustic analysis of speech	Prof. Girish Gidaye,Vidyalankar Institute of Technology , Mumbai	Utilization of lab of K. J. Somaiya College of Engineering for Ph.D. research and collaboration on non-funding basis However academic resources being shared	50
Research , Guide , Shri Guru Gobind Singhji Institute of Engineering and Technology, (SGGS I ET), Vishnupuri,Nanded,	Dr.Sangeeta Joshi,Vidyalankar Institute of Technology , Mumbai	Utilization of lab for Ph.D. research and collaboration on non-funding basis	45
Research , Investigating and Modelling a Recommender System: A Usability Engineering Perspective	Ajay dhruv,Vidyalankar Institute of Technology , Mumbai	Utilization of lab of Thadomal Shahani Engineering College University of Mumbai Mumbai University for Ph.D. research and collaboration on non-funding basis	48
Research , Security of IOT	Atul oak,Vidyalankar Institute of Technology , Mumbai with VJTI, Mumbai	Utilization of lab of VJTI ,Mumbai for Ph.D. research and collaboration on non-funding basis However academic resources being shared	52
Student Twin program	Vinay nair Vidyalankar Institute of Technology , Mumbai with University of Toledo, Ohio, U.S.A	1 1 MBA program. Students complete one year on campus and the second year in Toledo International campus. The degree awarded to them is by the University of Toledo, Ohio, U.S.A	365
Student Twin program	Saurabhi sawant Vidyalankar Institute of Technology , Mumbai	1 1 MBA program. Students complete one year on campus and the second year	365

	with University of Toledo, Ohio, U.S.A	in Toledo International campus. The degree awarded to them is by the University of Toledo, Ohio, U.S.A	
Student Twin program	Harshel vaidya Vidyalankar Institute of Technology , Mumbai with University of Toledo, Ohio, U.S.A	1 1 MBA program. Students complete one year on campus and the second year in Toledo International campus. The degree awarded to them is by the University of Toledo, Ohio, U.S.A	365
Student Twin program	Sahil murya Vidyalankar Institute of Technology , Mumbai with University of Toledo, Ohio, U.S.A	1 1 MBA program. Students complete one year on campus and the second year in Toledo International campus. The degree awarded to them is by the University of Toledo, Ohio, U.S.A	365
Student Twin program	Tapasya cheulkar Vidyalankar Institute of Technology , Mumbai with University of Toledo, Ohio, U.S.A	1 1 MBA program. Students complete one year on campus and the second year in Toledo International campus. The degree awarded to them is by the University of Toledo, Ohio, U.S.A	365
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	software programming	Godrej Infotech Ltd, Pirojsh anagar, Vikhroli,	05/06/2019	05/07/2019	Tarang C Nair

		Mumbai - 79.			
Internship	Stream drum control	Reliance R D Centre Reliance Corporate Park Thane Belapur Road, Ghansoli - 400701	03/06/2019	28/06/2019	Anamika Ghosh
Internship	webserver deisgn PHP MYSQL	HPCL,Refinery ,B.D.PATIL MARG CHEMBUR MUM-400074.	11/06/2019	10/07/2019	Rohail Aslam Shaikh
Internship	Webserver Design , Ethical hacking	Indian Institute Of Technology Mumbai, Powai, Mumbai 400076.	10/06/2019	10/08/2019	Sandesh D Arote
Internship	wesite deisgn PHP	63 Moons Financial Tech.Ltd. FT Tower, CTS No 256 257, Suren Road, Chakala, Andheri (E), Mumbai - 400093	10/06/2019	26/07/2019	Alifya S Khan
Internship	Competency Dev ADM	Hexaware Technologies Limited, Bldg No 152, Millenium Business Park, A Block, Sector - 3, Mhape, Navi Mumbai 400710.	10/06/2019	24/07/2019	Gunjeet K Soor
Internship	control system instr umentation	Defence Research Development Lab, Kanchanbagh, Hyderabad	04/06/2019	26/06/2019	Anuraag A Khanna
Internship	Digital Marketing trainee	Godrej Boyce Mfg. Co. Ltd, Plant 17, Pi rojshanagar,	05/06/2019	05/07/2019	Ameya A Mangaonkar

		Vikhroli, Mumbai - 79.			
Internship	software analyst.	Value3 Advisory, Wadala East, Mumbai, Maharashtra, 400037, India	12/03/2019	12/08/2019	Yash Kamtekar
Internship	software analyst.	Value3 Advisory, Wadala East, Mumbai, Maharashtra, 400037, India	12/03/2019	12/08/2019	Neel Maniar
<a href="#">View File</a>					

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

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
AlgOmega ideaLABS - a technology startup incubation and acceleration initiative	04/08/2019	Hackathon (2019)	120
Virtual Labs, an MHRD Govt. of India Initiative Indian Institute of Technology Bombay, Powai, Mumbai, India	26/06/2020	Participated in KTL bootathon	3
College of Business and Innovation, University of Toledo	07/07/2019	Lectures for Additional Courses • Presentation, Case Studies, TOEFL Training, Counselling for Cultural Change as an international student.	20
Indian Institute of Technology Bombay, Powai, Mumbai, India	01/04/2020	e-Yantra Robotics Student and Teachers Competition	16
Jupital Hospital, Thane, Maharashtra	01/11/2019	A visit to Jupiter Hospital, Thane was arranged for the students of Vidyalankar Institute of	18

Technology from  
Third year  
Biomedical  
engineering on 9  
March 2020

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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
25	26.97

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

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### 4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
vMIS (Vidyalankar-Management Information System)	Fully	Version 3.0	1999

4.2.2 – Library Services

Library Service Type	Existing	Newly Added	Total

Journals	117	335900	117	283946	234	619846
e-Journals	1	789043	Nil	Nil	1	789043
CD & Video	2232	Nil	Nil	Nil	2232	Nil
e-Books	1085	260787	Nil	Nil	1085	260787
Others (specify)	26	22243	26	15007	52	37250
<a href="#">View File</a>						

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
Amey Revandkar	All Modules of Electronic instrumentation and control system_EXTC_SEMIII_2019-2020	Learning Management System	18/10/2019
Yash Shah	All Modules of Infrastructure Security	Udemy	01/05/2020
Ajay Dhruva	All Modules of Data Science with Analogies, Algorithms and Solved Problems	Udemy	27/03/2020
Ajay Dhruva	All Modules of Digital Image Processing: Operations and Applications	Udemy	27/06/2020
Arunkumar Ram	All Modules of Biomaterial Prosthetics and orthotics_BIOM_SEM_III_2019-2020	Learning Management System	18/10/2019
Deepali Vora	All Modules of Database Management System_INFT_SEM_III_2019-20	Learning Management System	18/10/2019
Mandar Sohani	All Modules of Microprocessor_DIVB_CMPN_SEMV_2019-20	Learning Management System	18/10/2019
Sampat Mali	All Modules of Applied Mathematics III_INFT_SEM_III_2019-20	Learning Management System	18/10/2019
Ajitkumar Khachane	All Modules of Computer	Learning Management System	26/04/2020

	Organization and Architecture_SEM_IV_I NFT_2019-20		
Sangeeta Joshi	All Modules of VLSI Design_SEM_VI_ETRX_2019-20	Learning Management System	26/04/2020
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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	1000	654	2	1	1	69	277	200	0
Added	47	47	0	0	0	0	0	0	0
<b>Total</b>	<b>1047</b>	<b>701</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>69</b>	<b>277</b>	<b>200</b>	<b>0</b>

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

200 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
Facilities of E-content link	<a href="https://vit.edu.in/images/downloads/naac-uploads/4.3.3 ONM Facilities for E-content 19-20.pdf">https://vit.edu.in/images/downloads/naac-uploads/4.3.3 ONM Facilities for E-content 19-20.pdf</a>

#### 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
200	208.97	600	631.14

##### 4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

<p>Systems and procedures are established to ensure maintenance and utilization of academic, physical and support facilities. 1.Maintenance of Physical Infrastructure and Support facility: Department of Facility Management(FM) ensures that the maintenance of the physical, academic and support facilities is carried out in a planned and systematic manner as per institute's policies.</p> <p>a) Routine Maintenance: • Daily cleaning, dusting, sweeping and mopping by housekeeping staff using multiple automated cleaning equipment with maintenance records. • For minor repairs, Institute has a workforce of carpenters, masons, electricians and plumbers. b) Preventive Maintenance: • Painting: A calendar is prepared to ensure that all the areas are periodically painted. • Structural Audits: Structural Audit of the Building is carried regularly. • Fire Alarm System: Maintenance is outsourced to an agency empaneled by MCGM (Municipal</p>
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Corporation of Greater Mumbai) which provides servicing of fire safety equipment. • Air Conditioning: Maintenance of Heating, Ventilation and Air conditioning(HVAC) system is outsourced to an agency that submits monthly service report to FM manager. • CCTV: Maintenance of CCTVs is outsourced to an agency which inspects the equipment monthly and submits report to security officer. • Lifts: All the lifts are maintained through AMC with Kone Elevators. • Water testing: FM department periodically sends water sample to registered laboratories for testing. • Water Tanks / Septic Tanks: Cleaning of all water tanks by professional service-providers thrice a year using sophisticated equipment including UV equipment. • Audio-Visual System: Maintenance of high-end AV systems are outsourced to agency that submits monthly report to FM. • Pest Control: Pest control and anti-termite treatment is done periodically.

2.Maintenance of IT Infrastructure Systems department comprising a systems manager and sixteen personnel, ensures that the IT infrastructure is properly maintained. Maintenance of computer and networking hardware for first three years is taken care by the vendor/supplier. Server and firewall are covered under the comprehensive AMC. 3.Utilization of Physical, Academic and Support facilities: 1. Classrooms/Laboratories/Tutorial rooms: Timetable Committee informs the FM team about the required utilization of instructional areas so that it can deploy the necessary maintenance staff and program the HVAC system which is controlled by Intelligent Touch Machine (ITM). 2.Library: Fully automated Library driven by Institute's MIS system along with library staff is available. Well established Library Committee comprising convenor and department coordinators, periodically reviews the books, periodicals and journals requirements requested by the faculty. 3.Utilization of computational facilities during pandemic: As computing machines (laptops) were already provided to every faculty, it facilitated to smoothly shift over to online teaching. Licences of Microsoft Office365 provided a platform for online teaching and for conducting online exams along with evaluation. Other software licences such as Matlab helped students for performing online labs and tutorials. Institute's has tied-up with MOOCs online platform such as Coursera, EduX to facilitate faculty and students for their academic enrichment. 4.Sports Complex: It consists of a sports officer and three sports instructors. Institute has an indoor gymkhana, an outdoor multi-sport turf ground, football ground and a handball court.

<http://www.vit.edu.in/images/downloads/naac-uploads/Maintenance-policies-procedures.pdf>

## 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	Private Scholarships and Study Material	3265	10400448
Financial Support from Other Sources			
a) National	PMSSS	10	240000
b)International	NIL	Nil	0

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

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved



Personal Counselling	09/07/2019	132	Counsellor, Vidyalankar Institute of Technology, Wadala, Mumbai
Yoga and Meditation	21/06/2020	50	Student Council, Vidyalankar Institute of Technology, Wadala.
Bridge Course	02/02/2019	146	Head, Vidyalankar Consultancy Services, Vidyalankar Institute of Technology, Wadala.
Language Lab	06/08/2019	1322	Department of First Year Engineering, Vidyalankar Institute of Technology, Wadala, Mumbai.
Remedial	19/01/2019	60	Chief Academic Officer, Vidyalankar Institute of Technology, Wadala.
Softskill Development - Presentation Session	06/07/2019	669	TPO, Vidyalankar Institute of Technology, Wadala, Mumbai.
Softskill Development - HR Interview	06/07/2019	339	TPO, Vidyalankar Institute of Technology, Wadala, Mumbai.
Softskill Development - Group Discussion	06/07/2019	459	TPO, Vidyalankar Institute of Technology, Wadala, Mumbai.
Softskill Development - Campus Credentials	27/10/2019	208	Campus Credentials
Softskill Development - Smartways	26/09/2019	74	Smartwayz
<a href="#">View File</a>			

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	Number of students who have passed in the comp. exam	Number of students placed
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			activities		
2019	Guidance for Compititive Exam-AMCAT	583	Nill	66	439
2019	Guidance for Compititive Exam-AMCAT MMS	97	Nill	Nill	Nill
2019	Guidance for Compititive Exam- Technical Training	131	Nill	Nill	Nill
2019	Career Cou nseling- Career Counselling Committee	Nill	510	Nill	Nill
2019	Career Counselling - Entrepreneurship Development Cell	Nill	393	Nill	Nill
<a href="#">View File</a>					

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
Nill	Nill	Nill

## 5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
47	3028	241	54	1670	232
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	1	B.E.	Compute Engineering	Imperial College, London.	MSc Computing

2020	1	B.E.	Compute Engineering	Indian Institute of Management, Lucknow.	Post Graduate Program in Business administration and Management
2020	1	B.E.	Electronics & Telecommunication Engineering	Stevens Institute of Technology	Computer science
2020	1	B.E.	Electronics & Telecommunication Engineering	Syracuse university	management information system (MIS)
2020	1	B.E.	Electronics Engineering	Illinois State University	MS (Information Systems)
2020	1	B.E.	Electronics Engineering	Arizona State University	MS (Information Technology)
2020	1	B.E.	Information Technology	Oregon State University, Corvallis, Oregon	Master of Science in Computer Science
2020	1	B.E.	Information Technology	Rochester Institute of Technology, Rochester, Newyork	MS in Computer Science
2020	1	B.E.	Biomedical Engineering	John Hopkins Institute of technology	MS in Biomedical Engineering
Nill	1	B.E.	Biomedical Engineering	Case Western Reserve University .	MS in Biomedical Engineering
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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	13
GRE	30
TOFEL	19
CAT	4
Any Other	1

[View File](#)

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

Activity	Level	Number of Participants
Group Dance	Intercollege	20
Mr. and Miss. VIT	Institute	22
V-Studio	Institute	15
Fashion Show	Intercollege	22
V-Emperor Leg-2	Institute	150
Sportsmania	Inter-Collegiate	350
Friday Paathshala Mallakhamb: Journey Towards Ultimate Fitness	Institute	110
Flashmob	Institute	100
Street Dance	Inter-Collegiate	55
Just Jam	Institute	25

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#### 5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Mumbai International Chess Tournament	International	1	Nil	17103A0045	Devarsh Srivastava
2019	Fusion' 2k20 annual cultural festival by Padmabhushan Vasantdada Patil Pratishthan's college of Engineering, ,Mumbai	National	Nil	1	18102A2006	Harshita Mundhe
2019	Brouhaha' annual cultural festival at Syndenham college, Mumbai	National	Nil	1	17105A0046	Megha Shetty

2019	Manzar' annual cultural festival at Institute of Chemical technology, Mumbai	National	Nil	1	17103A0065	Prahit Sarpe
2019	Kshiraj' annual cultural festival at SNTD , Mumbai	National	Nil	1	19104A0078	Tanvi Sawant
2019	Tatva Moksha Laksha' annual cultural festival by SIES Nerul Collge	National	Nil	1	16101B0061	Avinash Dhuria
<a href="#">View File</a>						

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

Institute has strong-willed Student Council, Students Chapters and Students Association. Student Council: The Council aims to bring out hidden-potential, creative-skills, team building and leadership of students by organizing activities through Cultural, Sports, Technical and Literary subcouncils who also actively participate in "VERVE", the annual festival, as well as in "Friday Pathshala". Cultural Council: V-Studio, Dance, Drama, Fashion show, singing, acting and music competitions were organized to inculcate hobbies of the students. Intercollegiate. The Dance and Fashion show team of VIT won many competitions across state. Technical Council: Technical activities such as Technical fest, quiz, hands-on workshops, talks by eminent personalities, technical fun games are organized. Sports Council: Well-equipped Gymkhana and open grounds for students are available to engage in numerous sport activities like football, throw ball, kabaddi, table-tennis. "Sports mania", "Break the Skull Challenge were organized every year. Literary Council: It organizes Inter college debate, quiz competitions, "Parliament Mock, Model United Nations" every year. Representation on the academic committees: Class Representatives: Every class has class representative and deputy class representative selected by faculty members. Student Chapters: Student Chapters are established for professional bodies such as ACM, CSI, IEEE. The CSI conducted "Alexa Skills Webinar", "Coding Ninjas Workshop", " Digital Profile Building", " ETSA organized "Developing Antenna using ADS". Students Associations: Every Department has Student Associations CESA, ITSA, EESA, ETSA with a faculty convener and students. During 2019-20, BMESI-VIT had organized Seminar on "Organ Donation". Workshop on "Cyber Security in Layered Architecture" was organized by ITSA through TCS. Significant student activities during pandemic: 3 Days certified webinar on "New Emerging Trends and Technologies" was organized by CSI chapter. Webinars on "Flutter" and "Basics of Python using Azure" were organized by

ITSA. Representation on the administrative committees: Student feedback on amenities: Students communicate the problems pertaining to classroom, infrastructure, library, food, water and hygiene to Facility Management Department. NSS: NSS team sensitizes students towards societal issues and community services Alumni committee: The committee is established to strengthen the Alumni network and foster a spirit of loyalty and promote general welfare to the Institution. Alumni are also representing on IQAC. Anti-Ragging committee: It publicizes actions and creates awareness among the students against ragging ensuring a ragging-free campus by nominating student and parent as members. College Development Committee (CDC): Inputs are received from students on overall development plan of the college. Mahila Takrar Nivaran Samiti: Student representation facilitates to investigation into the information against the complaints launched, if any. Active Student contribution on other Institute committees: 1. "Friday Pathshala" is conducted on every Friday and is an unique event to unplug students from daily academic activities. 2. Solo Light Music Competition (State level) was conducted through Swaralankar-2 event. It was based on songs of music composers of the golden era. More than 100 students from all over Maharashtra participated. 3. Alila: is a very innovative concept to unfold the hidden talent/skills of our students. It explores the skills like art, calligraphy, candle making etc. It is conducted in open air environment to release the stress.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

6421

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

250000

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni Committee is functional since 2003 with the objective to nurture a bond with alma mater, to receive feedback on the design and review of syllabus, to enhance employment opportunities and to create a networking platform to share and influence the success stories of alumni. Subsequently, Alumni Association is formed in 2016 having one representative from every Department to cater to the ever increasing number of alumni. Alumni committee comprises of faculty coordinator from each department and a convenor as the head of the committee. Alumni Committee conducts various alumni related activities throughout the year like arranging guest lectures and experience sharing sessions of the alumni, academic review and college syllabus review to be performed by the alumni, circulate a quarterly newsletter about the college, its activities and performance to alumni, try and seek support from the alumni for the partnership for conduction of workshops and partnerships for establishment of labs, Organize Seminars to promote alumni involvement in Placement, Career Counselling, Projects, and Endowments etc. Alumni Committee meetings are held every Wednesday to discuss the plan and execution of activities. The minutes of the meetings should be submitted to the Principal with copies to all the Committee members within 2 days of meeting. Alumni Meet is conducted every year in 1st week of January to foster interactions and reinforce the bonds between alumni and the Institute through activities, programs and services to nurture mutually beneficial relationships. In the academic year 2019-20, the Alumni Committee of Vidyalankar Institute of Technology had organized four committee

meetings on the dates 6th Dec 2019, 16th Dec 2019, 15th Jan 2020, and 18th April 2020. After thorough discussion and inputs from the chair and other members of the committee, few guest lectures on current trends and technologies were planned. The plan was successfully executed, as 9 guest lectures, by all five departments of Vidyalkar Institute of Technology, viz. Computer Engineering Department (CMPN), Information Technology Department (INFT), Electronics Engineering Department (ETRX), Electronics and Telecommunication Department (EXTC), Biomedical Department (BIOM). During the odd semester, following guest lectures were conducted: o The first guest lecture was organized for Computer Engineering students on 18th Sept 2019 on the topic of "SAP ABAP Programming". The guest speaker for the event was Ms. Neha Badami, SAP Consultant Larsen, and Toubro Infotech. o Followed by this, the next guest lecture was organised by the Electronics Engineering Department and Electronics and Telecommunication Department on the topic of "Recent Trends and Technologies along with Patentability of your Project Ideas" by Mr. Omkar Desai, Software Test Automation TCS on 1st October 2019. o The last guest lecture of the odd semester was organized by Biomedical department on 4th October 2019 on the topi

## **CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 – Institutional Vision and Leadership**

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The Institute promotes decentralization and participative management in various administrative and academic activities at different levels for effective implementation of various processes and systems and monitoring of SOPs, policies, regulations and guidelines. Such decentralisation strengthens administrative skills with professional responsibility and accountability that ensures broader participation in decision-making process. First Practice: Pre-placement activities Placement being essential activity of the institute faculty members are integral part of the process. The placement committee comprises of Training and Placement Officer, one faculty placement coordinator from each department and placement executives. The Placement Committee is the interface between the Institute and corporates to establish the best student-organization fit by arranging campus interviews. Pre-placement training (PPT) is essential to develop skills and abilities of students to make them industry ready. Inhouse PPT is carried out by faculty and is an integral part of the academic sessions. It constitutes: • Career Counselling plays important role in guiding students and educating them about their interests and appropriate career choice they can have • Aptitude Tests help assess candidates in terms of their skills, knowledge, ability and personality. It is based on the material available on the websites regarding company's actual test pattern as well as the repositories based on the placement process conducted by companies in the previous years • In Mock GD sessions faculty act as facilitators and provide constructive feedback to students to improve their interpersonal skills, voice modulation, leadership skills and language proficiency • Mock Technical and HR Interviews simulate the actual interview and it is conducted by faculty where the focus is on improving technical as well as analytical skills of the students • HR talks help students improve their learning in a more interactive, topic specific way The department placement coordinator maintains a record of the evaluation feedback of the PPT program to monitor students' performance every semester. The outcome of joint efforts of faculty and students has led to considerable improvement in placements in last few years Second Practice: Intensive Education Development Programme (IEDP) The objective of Intensive Education and Development Programme (IEDP) is to provide academic advisory support and counseling for students of different categories as listed below. Committee comprises one faculty from each department. The different categories of students who are the beneficiaries of this scheme are as below: • Students



failing in theory examination (List A) • Students failing in Internal Assessment (IA) examination (List B) • Students having possibility to get drop in next Academic Year (List C) • Students having one or more KT (List D) • Weak students suggested by subject teacher (List E) Committee members ensure identification of these students, time table preparation for remedial sessions and execution of the overall programme. IEDP members conduct meetings with students along with their parents and respective Heads of the Departments. Critical cases are forwarded to the counselor on campus. Feedback is also received from the students and their results are analyzed to understand the impact of this programme. The IEDP process is effectively implemented due

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
Curriculum Development	Although Institute follows the curriculum prescribed by the University, the curriculum enrichment is achieved by rigorous design and implementation of the academic administration plan which is integrated with ICT enabled teaching-learning processes and through Beyond Syllabus Activities (BSA) such as Value-Added Courses imparting transferable and life skills. Moreover, Academic Review Process encourages innovative thinking, problem-solving capabilities and research orientation among learners. As a quality initiative, track wise courses are designed and developed by each department and 4 courses from different tracks implemented during the year 19-20. Faculty members submitted proposals for conducted VACs online and selected VACs floated for students.
Teaching and Learning	Although Institute follows the curriculum prescribed by the University, the curriculum enrichment is achieved by rigorous design and implementation of the academic administration plan which is integrated with ICT enabled teaching-learning processes and through Beyond Syllabus Activities (BSA) such as Value-Added Courses imparting transferable and life skills. Moreover, Academic Review Process encourages innovative thinking, problem-solving capabilities and research orientation among learners. As a quality initiative, track wise courses are designed and developed by each department and 4 courses from different tracks implemented during the



year 19-20. Faculty members submitted proposals for conducted VACs online and selected VACs floated for students.

**Examination and Evaluation**

To ensure that the entire system is transparent, time bound and efficient, the Examination Cell is well- equipped with a student-centric mind set, IT resources along with the necessary, security and surveillance systems. To ascertain the level of excellence, many reforms are established in the internal assessment system which is based on the guidelines prescribed by the University of Mumbai, faculty recommendations and viewpoints of various stakeholders. Reforms include cluster-mentor system wherein all audit of IA tests papers and assessment of University papers' model solutions prepared by faculty are carried out by the mentors. Faculty is trained for online evaluation.

**Research and Development**

The Institute has created an ecosystem for innovation, creation and transfer of knowledge by establishing RD Committee, Incubation Center, Vidyalankar Consultancy Services (VCS), IPR and Entrepreneurship Cell and Ph.D. center. The outcome of these systems resulted in strengthening collaborations with national level organizations such as TIFR, BARC, IIT Bombay etc., research linkages with industries like LT, Siemens, TCS, Eduvance, IMC etc. Started Collaborative Research linkage with Indian Institute of Geomagnetism (IIG) initiated in the year 2019-20. Faculty members have research linkage with international university of repute. EXTTC department established Research center affiliated the University of Mumbai during the year 2091-20.

**Library, ICT and Physical Infrastructure / Instrumentation**

Library is equipped with vMIS which is in-house Integrated Library Management System (ILMS) with inherent automation functions. It is accessible to all staff and students through Internet/Intranet. Library has collection of 31054 text-books, 6153 reference books, 1085 eBooks and journals, e journals, digital database, CDs, videos and periodicals etc. E-resources can be accessed from any computer in the campus. All classrooms and seminar halls are equipped with ICT.IT infrastructure is explored during pandemic to cope with Covid 19

situation as Institute has MS Office 365 licenses, online teaching learning process is smoothly conducted by using MS applications.

Human Resource Management

The Institute has effective welfare schemes for the benefit of its teaching and non-teaching staff. Institute has well established Human Resource Department comprising administrative and academic sections for management of employees. The department has HR manager and an executive. The department maintains all service records of the employees. Department focuses on maintenance of service records, recruitment, induction program for new joiner faculty mentoring system, non-teaching staff training, co-ordination related to Mediclaim etc.

Industry Interaction / Collaboration

Well established Industry Institute interaction committee (IIIC) is existing in the institute. Linkages with several industries and institutes of higher learning are strengthened to facilitate students to have better industrial exposure. The key goal is to achieve a symbiotic blend of academia and industry to enhance placement opportunities. Every semester committee conducts various activities like Guest lectures, IVs for faculty as well as students. To mitigate the gap between industry and academia, Industry personnel are appointed on the Department Advisory Boards and also as external mentor for different clusters. IIIC also takes initiative to Industry sponsored projects.

Admission of Students

Institute follows Centralized Admission Process conducted by the State Government and works as a Facilitation Center (FC). In addition to the guidelines of the Government, the Institute has introduced the following quality initiatives to facilitate students effectively. • Pre-admission awareness camps and Mission Admission Seminar for making the students aware of the admission process rules, filling up the option form, availability of various types of seats, importance of engineering courses in various fields etc. • Campus Tour for the interested students which facilitates them for better understanding of the infrastructure, facilities / support services and the

academic culture of the institute.

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

E-governance area	Details
Planning and Development	<p>Today educational institution is not limited to imparting education alone, but it is adapting latest trends in IT for improving the quality of education and handling various activities of the Institute including planning. - ERP displays Activity Calendar for entire Academic Year on dashboard itself which also highlights the activity along with the activity in charge's name - ERP allows to feed information of any guest visiting the campus for any event in advance thus notification also goes to security admin - It can also be used to report systems admin for any technical queries related to ERP.</p>
Administration	<p>ERP simplifies and automates Institute administration process. The ERP can be accessed from Institute intranet as well as from the public internet. ERP provides various functionalities to its users like for Students it provide facility to get Bonafide Certificate, apply for No-dues and Leaving Certificate, Issue Railway Concession, , Duplicate I-card Printing, ID Card Forgot entry, ID card Lost entry. Office staff can maintain Inward and Outward details digitally. ERP also provides various facilities to secure the campus by providing functionalities like Generating entry Pass for guests, maintaining guest register , keeping record of parked vehicles, providing parking sticker etc.</p>
Finance and Accounts	<p>This ERP Module deals with details of all finance related transaction. Major functions provided are : - Configuration of Fees, maintain details of the fees paid by the students, scholarship fees details and Miscellaneous Fees. - Petty Cash management - Generating Receipt as acknowledgement to the fees paid by the fees - Details of block/unblocked bounced cheques are maintained. - Yearly Budget expenditure is tracked. - Vendor Payment details are maintained - Modify Arrears - Staff Salary Processing - Reconciliation - SW Fee Adjustment - Various account related reports can be generated</p>

<p>Student Admission and Support</p>	<p>This module supports in maintain all the information of admitted students. Using this module office staff can - Configure Intake of Students like Govt. quota, Tuition Fee Waiver Scheme quota, JK quota, Institute Quota PM JK etc. - Maintaining students data - Modification of Admission category - Cancelation of Admission - ID card allotment Along with maintaining information of students ERP also provides many functionality to extend support to the student by - Mapping of Student-Syllabus (for the purpose of identification of student from old or new syllabus batch) - Transcript processing - Lock/Unlock Marks Entry and result processing</p>
<p>Examination</p>	<p>Every education institute organizes assessment / examination to evaluate progress of their Students. The ERP in the Institute facilitates following activities for the smooth conduction of all exam related work. It supports in - Announcement of Examination schedule - Preparing eligibility list of the students - Enrolment of students - Approval by Department: Examination admin will verify the details about Academic Year, level, course, syllabus semester and Month Year of every student and on fulfilling criteria enrollment is approved. - Generate Exam Seat Numbers Hall Tickets - Result preparation and publishing.</p>

### 6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	Swapnil Ashtekar	MOOC on AI for Everyone: Master the Basics	NIL	7175
2020	Snehal Ashtekar	MOOC on AI for Everyone: Master the Basics	NIL	7175
2020	Atul Oak	MOOC on edx201: How to Learn Online	NIL	3551
2020	Neelam	MOOC on	NIL	3551

	Punjabi	edx201: How to Learn Online		
2020	Komal Lawand	MOOC on Machine Learning with Python	NIL	7175
2020	Arunkumar Ram	MOOC on edx201: How to Learn Online	NIL	3551
2019	Amit Oak	Indian Merchant Chambers training for Ramkrishna Bajaj Quality Award Examiners Training	NIL	10000
2019	Saurabh Mehta	Indian Merchant Chambers training for Ramkrishna Bajaj Quality Award Examiners Training	NIL	10000
2019	Jyotsna Golhar	Indian Merchant Chambers training for Ramkrishna Bajaj Quality Award Examiners Training	NIL	10000
2020	Suvarna Bhat	MOOC on edx201: How to Learn Online	NIL	3551
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2020	FDP on Modern Educational Tools and Pedagogical Practices for Online	NIL	21/06/2020	26/06/2020	100	Nil

	Teaching					
2020	Workshop on Microsoft Application for Education	NIL	20/06/2020	20/06/2020	128	Nil
2020	NIL	Training for FE Laboratory Staff	01/06/2020	30/06/2020	Nil	3
2020	Webinar on NAAC: Systematic Data Organization and Presentation	NIL	16/05/2020	16/05/2020	25	Nil
2020	FDP on Advance Technologies in IT	NIL	09/05/2020	12/05/2020	130	Nil
2020	One Day Biomedical Technical Festival Impulse 2020	NIL	07/03/2020	07/03/2020	11	Nil
2020	One day Workshop on Cloud Tools and Software Configuration Management	NIL	18/02/2020	18/02/2020	15	Nil
2020	NIL	One day Hands-on Workshop on Internet of Things (IoT)	15/02/2020	15/02/2020	Nil	17
2020	Workshop on DevOps	NIL	15/02/2020	15/02/2020	9	Nil
2020	One Day Workshop for Biomedical Engineers on "Principles and Instrumentation of Ra	NIL	01/02/2020	01/02/2020	4	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
FDP on Application of Machine Learning and Deep Learning	2	24/06/2020	28/06/2020	5
1 Week FDP on Modern Educational Tools and Pedagogical Practices for Online Teaching	100	21/06/2020	26/06/2020	6
1 Day Workshop on "Microsoft Application for Education	128	20/06/2020	20/06/2020	1
MOOC on New Learning: Principles and Patterns of Pedagogy	13	09/06/2020	23/06/2020	15
MOOC on Learning to Teach Online	15	08/06/2020	23/06/2020	16
Online course on Foundations of Teaching for Learning: Being a Teacher	3	03/06/2020	25/06/2020	23
Online Course on Machine Learning with Matlab	4	03/06/2020	16/06/2020	14
Online Course on Machine Learning with Python	1	01/06/2020	01/07/2020	30
STTP on "Sensor, IoT Machine	4	01/06/2020	05/06/2020	5

Learning"				
MOOC on Introduction to the Internet of Things and Embedded Systems	2	26/05/2020	08/06/2020	14
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
103	153	28	85

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Gratuity, Sponsorship Fee Reimbursement for STTP/Workshop/ Professional Membership/Paper Publications, Empowering teachers with personal computation facility, Policy for Higher Studies, Leaves, Gratuity, Leave Travelling Concession, Medical Insurance, Early Salary payments during festivals, Health Awareness Programs Policy for Higher Studies, Leaves, Gratuity, Leave Travelling Concession, Medical Insurance, Early Salary payments during festivals, Health Awareness Programs Installation of Sanitizer stands at prominent places	Sponsorship/Fee Reimbursement for Workshop/Training, Special training for soft skills, Staff appointment on compassionate grounds, Staff Uniform, Policy for Higher Studies, Leaves, Gratuity, Leave Travelling Concession, Medical Insurance, Early Salary payments during festivals, Health Awareness Programs Policy for Higher Studies, Leaves, Gratuity, Leave Travelling Concession, Medical Insurance, Early Salary payments during festivals, Health Awareness Programs Installation of Sanitizer stands at prominent places	Medical Assistance in Emergency, Counselling Centre, Recreational Activities, Sports Gymkhana, Parking facility for two wheelers

**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 system of internal as well as external audit. Internal audit helps the institute to follow a systematic approach to evaluate and enhance the effectiveness of financial processes. It reviews and approves information and compliance with policies and SOPs. A thorough check and verification of all vouchers of the transactions is carried out in each financial year. The observations given by the auditors are duly complied with. The Books of Accounts are audited by the in-house audit team. Statutory audit is conducted once in a year by the external auditor as per stipulated provisions of the Income Tax Act.



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
Shree Sukhsagar Hospitality Services, Mumbai, Vanmat Technology Pvt. Ltd., Icon Infotech Pvt. Ltd., Mr. Amey Gharpure, Laxmi Polyplast Pvt. Ltd., Take Neo Publication Pvt. Ltd., Biomedical Engineering Society of India (BMESI), Innate talent Mgt. Pvt.	904200	Annual Cultural Festival, Alumni Contribution, Professional fees for delivery of industrial technical training program, Design development implementation of E-charting system for ratnagiri railway station of Konkan railway, Funding for purchase of electronic and mechanical hardware for solar electric Bicycle, Counsultancy charges for technical documentation system, Sponsorship for 1 Day Biomedical Technical Festival Impulse 2020
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6.4.3 – Total corpus fund generated

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**6.5 – Internal Quality Assurance System**

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

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

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

1. Guest Lectures by parents 2. Parents as Industry mentor 3. Parents from industry as member of department advisory boards 4. Feedback on curriculum by parents 5. Parents are part of Anti ragging committee

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

1. Training on "Security Communication helping students and good manner tiquettes"conducted on 8th June 2019 2. Training on "Emergency Evacuation" conducted on 15th June2019 3. Training on "Fire Fighting" conducted on 1st June 2019 4. Workshop on advanced EXCEL conducted on 19th October 2019 5. One day hands on workshop on "Internet of things"conducted 15th February 2020 6. Training for FE laboratory staff conducted from 1st June to 30th June 2020 7. Coursera courses by Non-Teaching staff, Lab Assistant

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

1. Training of Teachers for online teaching through MS Team applications 2. Coursera and edx MOOCs for all staff, students, and Alumni 3. Design of Robotics Experiments for Virtual Lab in association with IIT Bombay 4. Data storage structure for institute and department wise archives 5. E resource development / concept videos 6. Preparation of department wise Objectives and Key Results (OKR)

6.5.5 – Internal Quality Assurance System Details

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

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
2020	Restructuring of clusters	01/06/2020	01/06/2020	01/06/2020	153
2020	Amendment in Institutionalising Student Satisfaction Survey and its analysis through Net Promoter Score	13/10/2020	27/10/2020	27/10/2020	2000
2020	Coursera and Edx platform for Online Courses during Covid19	17/04/2020	17/04/2020	30/04/2020	181
2020	Training session on Microsoft Teams organised by INFT department, VIT	20/06/2020	20/06/2020	20/06/2020	153
2020	Guest Lecture series organized by MMS through Video Conferencing	20/04/2020	20/04/2020	06/06/2020	50
2019	STTP on Electronic	09/12/2019	09/12/2019	14/12/2019	11

	product Design was conducted by Electronics department from				
2020	CMPN Dept and CSI-VIT organized a webinar on how the amazon Alexa works	04/04/2020	04/04/2020	04/04/2020	15
2020	Faculty Development Program on Modern Educational Tools and Pedagogical Practices for Online Teaching with Vidyalankar Institute of Technology, Mumbai organised by FE department, VIT	21/06/2020	21/06/2020	25/06/2020	84
2020	A programming quiz competition titled Tech Wiz was hosted online using Quizizz platform organised by NSS	01/06/2020	01/06/2020	01/06/2020	130
2019	Student Council and NSS Team of VIT organized Mahawalkathon on 30th November 2019 to demonstrate and upraise the	30/11/2019	30/11/2019	30/11/2019	95

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regarding  
Road Safety

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## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Committee Discussions of Internal Complaints Cell (ICC)/Mahila Takrar Nivaran Samiti	06/01/2020	06/01/2020	6	3
International Womens Day celebration	03/09/2020	03/09/2020	84	46
Seminar on "Gender Sensitivity" by Ms. Archana Samarth (Counsellor)	17/12/2019	17/12/2019	51	49
Committee Discussions of Internal Complaints Cell (ICC)/Mahila Takrar Nivaran Samiti	25/11/2019	25/11/2019	6	3
Women's self defence workshop	08/10/2019	08/10/2019	52	7

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

0.1015

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	9
Provision for lift	Yes	9
Ramp/Rails	Yes	1
Braille Software/facilities	No	Nil

Rest Rooms	Yes	9
Scribes for examination	Yes	3
Special skill development for differently abled students	No	Nil
Any other similar facility	Yes	1

#### 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2020	1	Nil	14/03/2020	2	Maharashtra -Common Entrance Test exam centre	State level common entrance test for engineering admissions	828
2019	Nil	1	02/10/2019	1	Health Camp	Community wellbeing and Health related issues	4
2019	1	Nil	24/06/2019	67	Facilitation Center	Admissions	767

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#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Academic Manual	01/01/2019	This document is published in the year 2014 and reprinted and followed every year. 1. Newly admitted students are informed about the Mentoring Process and the names of the mentors, who meet their allocated mentees during the first week Induction Program and help them in settling down in the new environment. The mentees

		<p>can reach out to their mentors individually at any time. 2. When students move on to their core Engineering branches in the Second Year, they are allocated a mentor from their respective Department, with whom mentor-mentee group meetings are conducted once a month (3 meetings per semester) in all the years till the students graduate. 3. The mentor submits reports on attendance and observations in mentoring meetings to the Department.</p>
<p>Faculty Manual</p>	<p>01/01/2019</p>	<p>This document is published in the year 2014 and reprinted and followed every year. 1.The Institute Vision, Mission are disseminated in prominent places on the campus and in the Course Diary and Staff Diary. 2. The Institute encourages faculty development by organizing Conferences, STTPs, FDPs, online certification programs through tie-ups with NPTEL, Coursera and edX. 3. RD activities are conducted across all Departments every week, faculty publish research and technical papers books and are involved in product development. 4. Salaries are paid regularly, provisions like Provident Fund, Gratuity, Medical Insurance, Leaves, Allowances are extended to the employees. 5. There are a host of amenities and facilities such as Counselling, Safety Security, Vehicle Parking, and Library which faculty benefit from.</p>

Mentoring Handbook	01/01/2019	<p>This document is published in the year 2014 and reprinted and followed every year. 1. A learner-centric Institute, formal learning methods include classroom lectures, demonstrations, assignments, case studies, discussions, mini projects, seminars, presentations, interaction with industry experts. Informal learning methods include quizzes, debate club, and group activities to promote peer to peer learning. 2. In addition to a well-stocked library, the Institute has a strong digital presence and a fullfledged Learning Management System (LMS) with a host of resources such as lecture capture system, Moodle and vRefer. 3. The Institute follows University Selection Committee procedure for selection of faculty. Various prevalent processes like academic administration plan, conduct of lectures and practicals, attendance, examinations, preview and review, placement are well documented.</p>
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7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Social Cohesion- Calligraphy Workshop	09/10/2020	09/10/2020	86
Social Cohesion - Unplugged Eve (Live Music Concert) with Shri Kaushal Inamdar	21/08/2020	21/08/2020	2400

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

1. Green Lanscaping 2. Sewerage Treatment Plant for water recycling 3. Composting plant (ECO-ROX) 4. Plastic Free Campus 5. Ewaste bin (Eco-Reco)

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

Best Practices at Vidyalankar Institute of Technology VIT, over a period of 20 years, has developed some best practices by way of educational strategies and activities which enhanced quality of teaching and learning such as: 1. V-provisions (ICT enabled provisions) 2. Cluster Mentoring Process

**Title of the First Best Practice: vProvisions (ICT enabled provisions)**

**Objectives/intended outcomes:**

1. To create digitally-enabled platforms to enable a smart environment for learners
2. To effectively manage academic and administrative resources.

**Underlying principles of this practice:** In line with GOI's initiative of Digital India, VIT has set up the following vProvisions to promote active use of technology on the campus:

- vLive
- vPrint
- vRefer
- vMIS
- E-learning
- Open Course Ware (OCW)
- vTutorials
- vAttendance

**Contextual Features of vProvisions:**

1. Centralized for efficient management of academic, administrative, auxiliary and financial aspects.
2. User-friendly and can be accessed on and beyond the campus.
3. Save energy, time, and are eco-friendly.
4. Quick dissemination and remote access of information.

**Challenges/Issues:**

1. Creating customized software and its continuous upgradation
2. Data and system security

**Brief description about vProvisions:**

VIT takes pride in its in-house vProvisions which were ideated and executed in Incubation Centre by students and guided by faculty.

- vMIS: A customized ERP that takes care of all the academic, administrative, auxiliary and financial processes on campus. It addresses -
  - o Student - Admission, Exam, Library, Accounts, Transcripts, etc.
  - o Staff - Attendance, Payrolls, Leaves, Stores and Inventory Management, etc.
- vLive: A platform and discussion forum for dissemination of information such as notices related to exam, placement, academics, competitions etc.
- vPrint: A web-based centralized printing service that allows users to give print jobs from any location to "Any Time Print" (ATP) stations at the Institute.
- vRefer: A file transfer protocol (FTP) repository for students to access educational materials.
- E-learning: Digitized course material integrated with images, animated videos, web links, MCQs, quizzes and games to make learning engaging.
- VIT Open Course Ware: VIT's Lecture Capture System is an LMS to help learners access lectures recorded live in class.
- vAttendance: Biometric-based attendance capture and calculation system.
- vTutorials: Software which generates random mathematical assignments.

**Uniqueness:**

- VITians can access most of the vProvisions remotely
- vPrint, vAttendance are unique platforms with respect to VIT and are developed in-house by students.

**Constraints/limitations:**

- Keeping up the demand of internet throughout the campus during peak hours and providing seamless connectivity for smooth functioning of vProvisions.

**Evidence of Success:**

- vLive: Users on vLive have increased over the years, if compared from 2013 till 2019
- vRefer: Repository of academic resources of 200 courses till 2019
- E-Learning: The number of e-books uploaded on the college repository include even ibooks and now around 146 e-books are available
- Open Course Ware (OCW): Number of courses recorded in 2016, 2017, and 2018 have increased from 60, 120, to 154 respectively. The lectures recorded in these three years have increased from 631, 1789, to 2133 and visits to OCW have also increased from 2350, 22361, to 41289 respectively.

**Problems Encountered:**

- Like with any new technology, there were issues in users getting familiarized with it.

**Resources required:**

- VIT is equipped with all the resources and infrastructure required for the utilization of vProvisions which is now a well-established best practice at the Institute.
- Helpdesk system takes care of all IT related issues.

**Title of the Second Best Practice: Cluster Mentoring Process**

**Objectives/intended outcomes:**

1. To form clusters to club together allied



courses of a specific domain across all programs. 2. To assign suitable mentor to each cluster for guiding cluster members for focused and in-depth work for strengthening academics. 3. To involve external experts from prestigious industrial and academic organizations to mentor and guide Institute clusters. 4. To facilitate influx of state of the art and current ideas so that the curriculum delivery is always enriched for the benefit of students

Underlying principle: Cluster Mentoring is a unique concept and best practice initiated by the Institute wherein related courses from across various programs are grouped under small 'clusters'. A senior and experienced faculty member, designated as an Institute Cluster Mentor, is assigned to each Cluster. Academic and Industry Mentors are invited from prestigious educational institute and industry respectively to guide Cluster members for enriching the teaching-learning process. Their involvement facilitates effective mentoring in an enriched environment of teamwork which eventually benefits students. This process also enhances the Industry- Institute interaction.

Contextual Features: 1. Clusters of related courses, taught across various programs, are formed. (For example, the cluster 'Microprocessors and Microcontrollers' brings together faculty who teach related courses across Biomedical engineering, Electronics engineering, Electronics and Telecommunication engineering and Computer engineering) 2. Institute Cluster Mentors are expected to lead the Cluster by playing an active role in executing specific tasks like validating Academic Administration Plan, auditing Internal Assessment (IA) examination paper, suggesting appropriate Beyond Syllabus Activities (BSA), 3. Institute Cluster Mentors organize Advisory Panel Meeting External Cluster Mentors are invited to guide and mentor the Cluster once in a semester.

Challenges faced: 1. It may not always be possible to implement the suggestions of the external experts as what works in their respective organization may not always be a perfect solution for what our Institute requires. Description of the Practice: Collaboration allows teachers to capture each others fund of collective intelligence. - Mike Schmoker (author of Focus: Elevating the Essentials to Radically Improve Student Learning). VIT has initiated Cluster Mentoring process in 2014 to enhance knowledge sharing through collaborative skills. Every faculty member is a part of one or more clusters. In the AY 2019-20, there were 47 number of Clusters. Following are few roles and responsibilities of Institute Cluster Mentors. 1. The Institute Cluster Mentor oversees the curriculum planning and delivery in his/her respective cluster and undertakes many responsibilities such as analysis of course content, gap mitigation, checking paper solutions and many other initiatives to keep the curriculum up-to-date. 2. The suggestions given by the external Cluster Mentors are incorporated into the Academic Administration Plan. 3. Some of the suggestions are conducted as beyond syllabus activities or introduced as Value Added Courses. 4. This process helps to mitigate the gap between the industry requirements and the curriculum delivery. 5. It also enables the exchange of ideas and knowledge of best practices between the Institute and other reputed educational institutes. 6. Institute Cluster Mentors decide on training of cluster members for overall upgradation. They look into training of new teaching staff/lab staff, identify opportunities for participating in FDPs/STTPs/industry training opportunities/ faculty internships for their Cluster members.

Uniqueness: 1. Cluster Mentoring Process is one of the significant IQAC initiatives at the Institute for curriculum enrichment. Over the period this process is strengthened further by incorporating reforms. Constraints/limitations: 1. The requirements of various courses under various programs may be different. These differences need to be kept in mind while inviting external experts in every semester and incorporating their suggestions. Evidence of Success Cluster Mentoring Process is a successful endeavour at the Institute. As a result of this process, experts from across prestigious academic and research organizations such as IITB, TIFR Mumbai, BARC Mumbai and reputed industries like TCS, LT, Siemens have visited our campus, shared valuable inputs through the forum of advisory

panel meets and interacted with our faculty. This has resulted in bagging internships and projects for students and faculty. This has also enhanced research linkages, and improved networking with these organizations. One of the key indicators is the improvement in the quality of BE Final Year projects as a result of recommendations by External and Internal Mentors. Problems Encountered 1. Implementing the value additions recommended by external mentors within the timeframe prescribed by affiliating university. 2. As ours is an affiliated Institute, we don't have much liberty to customize our curriculum as suggested by the experts. This can be mitigated by conducting beyond syllabus activities. Resources Required VIT is equipped with all the resources required for the implementation of the Cluster Mentoring process, which is now a well-established practice at the Institute. Additionally, the process requires human resource from reputed academic organizations and industries.

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

[https://www.vit.edu.in/images/downloads/naac-uploads/Best-Practices\(2019-20\).pdf](https://www.vit.edu.in/images/downloads/naac-uploads/Best-Practices(2019-20).pdf)

### 7.3 – Institutional Distinctiveness

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

Learner-Centricity to Generate Competent and Socially Sensitive Professionals  
VIT's thrust is to focus on creating value in our learners by building their technical competency along with focusing on their holistic personality development. Learner-centricity is a priority and outcome-based education is a way of life on the campus. With our motto of "Students First" interspersed in every aspect of teaching-learning at VIT, we are on the path towards attainment of our vision. Performance Indicators for AY 2019-20: Awards • Our students have won prizes at Smart India Hackathon and other coding competitions. In SIH 2019, 2 teams bagged top prizes and, in SIH 2020 a team of 6 students won Rs. 1,00,000. A faculty member won the Best Mentor and Judge prize at SIH. • Our alumnus won Best Fintech start-up award at the NASSCOM India Fintech Awards 2019. • At CSI Technext India Awards 2019-20, VIT bagged Best Institute Award - Innovative pedagogical approaches and tools, Best HoD award, Best Faculty award, Best Project Guided. Impactful Events • Padma Vibhushan awardee Dr. Anil Kakodkar delivered an invited talk in May 2019. • A delegation of students and faculty visited South Korea for an educational tour in July 2019. • A national level Online FDP was organized which saw participation of 700 faculty. • TEDxVIT hosted live talks and performances by well-known personalities in June 2019. Positive Learning Environment • The Institute tied up with MOOC platforms Coursera, edX and NPTEL Swayam and many students, faculty and alumni completed multiple certificate courses. • Students Coding Club is initiated to take up MHRD project work from IITB. • Participation in NSS activities like Swachhata Abhiyaan and free health check-up camp sensitized students on social issues. • VTechSEED is a BE Project Competition wherein students worked on engineering solutions for societal benefit. Career Front • On the Placement front, 473 students are placed in various companies such as Ugam Solutions, Reliance Jio, TCS, GE Healthcare. • In all 25 graduates admitted to higher studies/post-graduation in institutions like IITs, Cornell, Princeton, Carnegie Mellon, Toledo, etc. • Under Entrepreneurship, VIT MMS students have developed and marketed an e-scooter. An Incubation Unit and Innovation Lounge have been set up. Appropriate Toolset VIT's toolset includes trained faculty, international award-winning world class infrastructure, ICT enabled digital learning environment, LMS, Lecture Capture, laboratories equipped with advanced equipment and technologies. Professional Skillset Our Technical Skillset facilitates experiential learning, Value-Added Courses, Internships, PBL,

conferences, and webinars. Pre-placement, aptitude test training, and Language Lab (vSpeak) are conducted for all students. To develop Soft Skillset, students organize and participate in extra-curricular events like Alila, Friday Paathshala, annual festival 'Verve' and events by various committees. Motivating Mindset Various initiatives are undertaken to inspire students to think different. Students participate in outdoor sports, and in indoor gaming facility "Den". V-Talks are a series of online talks by personalities from diverse professions. International Yoga Day is observed at VIT. VIT caters to every aspect that a learner should be equipped with, in terms of learning resources

Provide the weblink of the institution

[https://www.vit.edu.in/images/downloads/naac-uploads/Institutional-Distinctiveness\(2019-20\).pdf](https://www.vit.edu.in/images/downloads/naac-uploads/Institutional-Distinctiveness(2019-20).pdf)

### **8.Future Plans of Actions for Next Academic Year**

The Institute shall revisit the Institute's Strategic plan for 2020-25. The Institute shall prepare Objectives and Key Results (OKR) related to Academics, Placements, Higher Studies, Accreditation, Autonomy etc. to achieve the desired quantified targets as per key result areas. The institute has applied to UGC for inclusion of the Institute under 2(f) and 12(B). On receipt of the Inclusion letter from UGC, the Institute shall apply to UGC (through University of Mumbai) for Academic Autonomy. The Institute Plans to revamp its website and MIS (vMIS) software. The Institute Plans to finalize the Syllabus Scheme for UG, PG and Doctoral Programmes along with the Detail Syllabus. The institute has Campus wide Microsoft Licenses the Institute plans to use MS-Team platform for Online teaching- Learning Process. Rigorous training session for Faculty are planned. The institute plans to significantly enhance the no. of value-added / certificate courses for the students of Various Programmes. The institute plans to apply for ATAL FDP programme of AICTE. The institute plans to expand the Tie-up with MOOC course providers Like Coursera, EdX. Looking at the COVID-19 Pandemic situation the Institute plans to increase the no. of Online Talks by eminent experts in their field, on diverse topics. On Student Satisfaction Survey (SSS) and Stakeholder's feedback collected the Institute plans to perform Data Analysis using Net Promoter Score (NPS) metric to decide the further action plan.