Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**VIDYALANKAR INSTITUTE OF TECHNOLOGY**
Name of the head of the Institution	**Dr.Sunil Patekar**
Designation	**Principal**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**02224161126**
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**

2. Institutional Status

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.	**09405204023**
Mobile no.	**9869036269**
Registered Email	**sangeeta.joshi@vit.edu.in**
Alternate Email	**sangeetamjoshi@gmail.com**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://www.vit.edu.in/images/downloads/NAAC_website_address.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.vit.edu.in/images/downloads/AcademicActivityCalendar2018-19.pdf

5. Accrediation Details

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

6. Date of Establishment of IQAC

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 and Department	**12-Jul-2018**	**3572**

level internal audit through Review for the last semester and Preview for the upcoming semester.	15	
Institute and Department level internal audit through Review for the last semester and Preview for the upcoming semester.	12-Jul-2018 15	3572
Feedback from all stakeholders compiled, analysed and action plan is proposed by the respective Departments	12-Jun-2018 30	3572
Feedback from all stakeholders compiled, analysed and action plan is proposed by the respective Departments	12-Jun-2018 30	3572
Regular IQAC Meetings	12-Jun-2019 01	16
Regular IQAC Meetings	12-Jun-2019 01	16
Regular IQAC Meetings	11-Dec-2018 01	16
Regular IQAC Meetings	11-Dec-2018 01	16
Application to University for permanent affiliation of the remaining two UG programmes 1.	05-Dec-2018 30	3572
Application to University for permanent affiliation of the remaining two UG programmes 1.	05-Dec-2018 30	3572
Application to NIRF	05-Dec-2018 30	3572
Application to NIRF	05-Dec-2018 30	3572
Application to National Board of Accreditation(NBA) for further Accreditation status on basis of compliance report of the following UG-Engineering programs: 1.	12-Feb-2018 90	3572
Application to National Board of Accreditation(NBA) for	12-Feb-2018 90	3572

further Accreditation status on basis of compliance report of the following UG-Engineering programs: 1.	

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

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Prof. Vijay Purohit, Electronics and Telecommunication Department, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2017 365	20000
Prof.Vidya Chitre Prof.Harshali Rambade (CO-PI) Information Technology, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2018 365	20000
Prof.Dilip Motwani Computer Engineering, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2018 365	20000
Dr.Saurabh Mehta Prof. Atul Oak (CO-PI) Electronics and Telecommunication Department, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2018 365	40000
Prof. Atul Oak, Dr.Saurabh Mehta (CO-PI) Electronics and Telecommunication Department, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2018 365	40000
Prof.Varsha Bhosale, Information Technology, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2017 365	25000
Prof. Sonaali Borkar, Department of	Minor Research Proposal, University of	University of Mumbai	2017 365	30000

Applied Science, VIT, Mumbai	Mumbai			
Prof. Vijay Purohit, Electronics and Telecommunicati on Department, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2017 365	20000
Prof.Vidya Chitre Prof.Harshali Rambade (CO-PI) Information Technology, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2018 365	20000
Prof.Dilip Motwani Computer Engineering, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2018 365	20000
Dr.Saurabh Mehta Prof. Atul Oak (CO-PI) Electronics and Telecommuni cation Department, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2018 365	40000
Prof. Atul Oak, Dr.Saurabh Mehta (CO-PI) Electronics and Telecommunicati on Department, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2018 365	40000
Prof.Varsha Bhosale, Information Technology, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2017 365	25000
Prof. Sonaali Borkar, Department of Applied Science, VIT, Mumbai	Minor Research Proposal, University of Mumbai	University of Mumbai	2017 365	30000
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9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File

10. Number of IQAC meetings held during the year :	**2**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	<u>View File</u>
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	**No**

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

Application to National Board of Accreditation(NBA) on 3rd May 2019 for further Accreditation status on basis of compliance report of the following UGEngineering programs: a. Electronics Engineering b. Electronics and Telecommunication Engineering c. Biomedical Engineering (All above mentioned programmes received further accreditation on 31st July 2019 for the period of three years i.e. upto 30th June 2022)

Application to NIRF on 5th December 2018

Institute and Department level internal audit through Review for the last semester and Preview for the upcoming semester.

Application to University for permanent affiliation of its two UG programmes a. Computer engineering b. Information Technology

One day Workshop on "Data Organisation in Revised Accreditation Framework of NAAC" was organised by IQAC on Thursday, 27th June 2019. 148 participants benefitted. This programme facilitated HEIs to understand revised Accreditation Framework with respect to data organisation

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

Plan of Action	Achivements/Outcomes
Institute and Department level internal audit through Review for the last semester and Preview for the upcoming semester	**Institute and Department level internal audit through Review for the last semester and Preview for the upcoming semester**
Institute and Department level internal audit through Review for the last semester and Preview for the upcoming semester	**Institute and Department level internal audit through Review for the last semester and Preview for the upcoming semester**

Application to University for permanent affiliation of its two UG programmes o Computer engineering o Information Technology	Committee visited on 7th March 2020. Result waited
Application to University for permanent affiliation of its two UG programmes o Computer engineering o Information Technology	Committee visited on 7th March 2020. Result waited
Following programmes received further accreditation on 31st July 2019 for the period of three years i.e. upto 30th June 2022 1. Electronics Engineering 2. Electronics and Telecommunication Engineering 3. Biomedical Engineering	Participated in NIRF
Following programmes received further accreditation on 31st July 2019 for the period of three years i.e. upto 30th June 2022 1. Electronics Engineering 2. Electronics and Telecommunication Engineering 3. Biomedical Engineering	Participated in NIRF
Application to National Board of Accreditation(NBA) for further Accreditation status on basis of compliance report of the following UG-Engineering programs: 1. Electronics Engineering 2. Electronics and Telecommunication Engineering 3. Biomedical Engineering	Following programmes received further accreditation on 31st July 2019 for the period of three years i.e. upto 30th June 2022 1. Electronics Engineering 2. Electronics and Telecommunication Engineering 3. Biomedical Engineering
Application to National Board of Accreditation(NBA) for further Accreditation status on basis of compliance report of the following UG-Engineering programs: 1. Electronics Engineering 2. Electronics and Telecommunication Engineering 3. Biomedical Engineering	Following programmes received further accreditation on 31st July 2019 for the period of three years i.e. upto 30th June 2022 1. Electronics Engineering 2. Electronics and Telecommunication Engineering 3. Biomedical Engineering
Upload Self Study Report and prepare for NAAC Peer team visit	Institute received A(plus) grade with the score of 3.41 on 4th March 2019
Upload Self Study Report and prepare for NAAC Peer team visit	Institute received A(plus) grade with the score of 3.41 on 4th March 2019
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
General Body	21-Jun-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes

Date of Visit	**07-Feb-2019**
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	**2019**
Date of Submission	**01-Jan-2019**
17. Does the Institution have Management Information System ?	**Yes**
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	**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 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. Benefits to Management • Using Institute ERP, Institute management has a systematic and easy approach towards maintaining and updating the different aspects of their institute. • Administrative staff can reap several benefits from ERP, some of which are as follows: ? Single Point ERP ? Zero redundancy in managing the institutions records ? Complete automation of all operations ? Centrally stored information with zero redundancy ? Best possible resource optimization ? Generate timetables with dynamic substitute management ? Cost effective one point solution for total management • Automated and quick report generation along with process turnaround time • Centralized data repository for trouble free data access • Authenticated profile dependent access to data • Elimination of people dependent processes • Minimal data redundancy Benefits to Staff: • Staff can check their Attendance • Staff can check leave status and holidays • They can check Activity Calendar • Check library books status • Request for leave and leave reversal as well. • They can request for consumables • Check their salary sheets • Add contribution and achievement • Check their Service Book Benefits to Students: • Students get a new platform not only to gain but also to express the knowledge inside them. • Freedom to browse through library books catalogue and identify the book(s) to be issued • Prior information about all events and holidays • Railway Concession 1.2 Features: • EndtoEnd solution • NTier Architecture • Streamlines Educational process • Increases productivity and efficiency of the staff Automation. • Reduces paper work • User

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 course objectives & outcomes, real life application mapping, academic resources, allied MOOC/ Value Added Courses (VAC), lesson plan, assignments, tutorial/practical plan including Problem Based Learning (PBL), evaluation scheme for grading. Stage -3: Interactive Cluster Meetings for identifying gaps and strengthening of AAP Courses of similar domain are brought under one cluster. The Institute has 50 such Clusters. Each cluster has respective course teachers, one internal and two external mentors (Academic & Industry). Gaps in the curriculum are identified through structured feedback on revision of syllabus from the stakeholders and inputs are received from Departmental Advisory Board (DAB) members and cluster mentors and accordingly Beyond Syllabus Activities (BSAs) are planned 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 academic preparedness (including University exam paper solution, Assignments, Internal Assessment (IA) question papers and its Audit report) as per the standard Preview format and suggestions are given, if required. 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 BSAs such as Industrial Visits, Internships, Workshops, Mini projects, student debates, Group Discussions, Seminars, Role plays, Value Added Courses, Certificate Courses, use of new tools /simulators, MOOC (NPTEL etc.). o Student Centric learning Methods like Experiential (IVs, Internships, Workshops), Participative/Collaborative (Group Projects, Role Plays, debates, GDs, Presentations) and Problem Based Learning (PBL Experiments, Case Studies, Assignments) are in practice. 4. 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 though formative (Internal Assessment) and summative (Term work evaluation) assessment methods. Advanced learners and slow learners are identified, and necessary actions are initiated. 6. Feedback and Takeaway • Students' feedback is taken on content delivery during week 4 and 8 and corrective measures are taken. • Course Exit Survey is carried out to understand the course efficacy. • Academic Review Process (ARP) is carried out at the semester end to verify AAP implementation and feedback is communicated. • Result Analysis is carried out to study the students' performance to initiate

1.1.2 – Certificate/ Diploma Courses introduced during the academic year

Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
Total Python with OOP, GUI, DB Plots	NIL	04/03/2019	6	Employabilit y	Structured and Object Oriented Programming with database SQL queries and

					GUI development
Total Embedded/IoT with Arduino and R-Pi-3	NIL	11/03/2019	5	Entrepreneur ship	Raspberry pi programming and Embedded C, Arduino interfacing, IOT application development
Total Python with Data Science	NIL	10/12/2018	6	Employabilit y	Data structures of Python, Python programming for Data Science applications using NumPy and SciPy
Total Embedded/IoT with Arduino and R-Pi-3	NIL	17/12/2019	6	Entrepreneur ship	Programming for Arduino and R-Pi-3 for IOT Applications
PCB Designing	NIL	08/09/2018	3	Employabilit y	Basics of PCB Designing for Electronics circuits
Web Developement	NIL	01/09/2018	3	Entrepreneur ship	Web design Programming using HTML, CSS, Bootstrap, Ajax, PHP, Json
Printed Antennas	NIL	28/07/2018	3	Employabilit y	Design of printed antennas for producing circuit diagram and documentatio n
Embedded Systems IOT	NIL	16/07/2018	9	Employabilty	Embedded C for Internet of things
Python with Machine Learning	NIL	23/07/2018	9	Employabilty	Machine Learning using Python Progamming
Python R-Pi	NIL	23/07/2018	8	Employabilty	Use of

					Python R-Pi for Industrial Applications
PL/SQL with E-Kit/Oracle	NIL	16/07/2018	6	Employabilty	Database management using PL/SQL and Oracle
Python/Data Science	NIL	23/07/2018	5	Employabilty	Python programming for Data Science Applications

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year

Programme/Course	Programme Specialization	Dates of Introduction
No Data Entered/Not Applicable !!!		
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
BE	Information Technology (UG and PG)	01/07/2018
BE	Computer Engineering (UG and PG)	01/07/2018
BE	Electronics Engineering (UG)	01/07/2018
BE	Electronics and Telecommunication Engineering (UG and PG)	01/07/2018
BE	Biomedical Engineering (UG)	01/07/2018
MMS	PG Programme	01/07/2018

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

	Certificate	Diploma Course
Number of Students	451	0

1.3 – Curriculum Enrichment

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

Value Added Courses	Date of Introduction	Number of Students Enrolled
AMCAT Training	30/03/2019	749
AMCAT Training	09/03/2019	270
Total Embedded/IoT with Arduino and R-Pi-3	04/03/2019	5
Python with Data Science	02/03/2019	3

Total Python with OOP, GUI, DB Plots	24/02/2019	8
Digital Marketing	02/02/2019	19
Soft Skill Grooming	21/01/2019	1392
Total Python with GUI, Database Networking	19/01/2019	10
Technical Skill Grooming	17/01/2019	267
Total Embedded/IoT with Arduino and R-Pi-3	26/12/2018	20
[View File](#)		

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	236
BE	Computer Engineering	242
BE	Electronics Engineering	241
BE	Electronics and telecommunciation Engineering	241
BE	Biomedical Engineering	140
MMS	Master of Management Studies	107
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

The Institute believes in providing value-based education to students in order to develop their technical skills and professional competency in tune with industry requirements. To ensure that students are equipped with the requisite skill set, the Institute collects year-wise feedback from different stakeholders such as students, alumni, teachers, employers and parents. I] Stakeholders' feedback collection and analysis: Feedback from students and teachers is collected and analysed at the Department level. Alumni, Parents and Employer feedback is collected and analysed by the Alumni Committee, Parent Interaction Committee and Training Placement Cell respectively. Findings from the quantitative analysis: Analysis is carried out from the ratings received on the basis of attributes such as modern teaching aids, industry-institute interaction, laboratory facilities, library and reading room facility, university curriculum etc. If the response is rated below satisfactory level,

in such cases inferences drawn are used for action plan preparation for further improvement. Findings from the qualitative analysis: The inferences are drawn from qualitative remarks and suggestions on aspects like content delivery, value added and bridge courses, placements, projects etc. Many beyond syllabus activities and skill development programmes are planned accordingly to match the recent industrial trends. II] Utilization of stakeholders' feedback for overall development The stakeholder's feedback is discussed in the IQAC meeting and action plan is prepared and disseminated to each Department for deployment. i) Stakeholders' feedback utilization for student development: Student development programmes such as Value Added Courses and Certified Courses on recent trends like "Total Python with Data Science and Total Embedded/IoT with Arduino and R-Pi", "Enhancing industry interaction through events like Flagship: 4 Days workshop/seminar by industry expert", and "Make-a-thon": Better utilization of e-waste to make useful products etc., more visits to industries, hands-on skill development through problem based learning, research oriented experiments through use of advanced simulation tools and equipment, Quizophile: Quiz to test students' knowledge and "Beyond Horizons": a conclave showcasing the life-changing experiences of unconventional thinkers from all walks of life. ii] Stakeholders' feedback utilization for Faculty development: As our Institute is affiliated to the University of Mumbai, feedback regarding updating curriculum is taken through various activities such as guest lectures in emerging areas by industry experts, focussed industrial visits, linkages with industry and other research organisations through student projects and faculty programmes. Faculty Development Programmes such as "Education Technology and Use of ICT Tools" and "Virtual Lab Development", Hands-on Training on "IoT and Machine Learning", "Digital Signal Processing", "Use of Excel spreadsheets", workshops on "SWOT analysis", "Mentoring the Mentor" by a professional counsellor were proposed by IQAC and conducted by the Institute for strengthening ICT enabled content delivery. iii] Stakeholders' feedback utilization for Institutional developments: As per the stakeholders' feedback on curriculum, the Institute has taken up the professional development initiatives for strengthening Vidyalankar Consultancy Services which was initiated for launching advanced courses.

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
No Data Entered/Not Applicable !!!				
[View File](#)				

2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	3230	341	144	12	9

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
165	165	11	44	23	14

View File of ICT Tools and resources

View File of E-resources and techniques used

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

Mentoring at the Institute is provided in three broad areas i.e. guiding students on academic requirements, professional development, and personal guidance. The Institute follows a standard process of mentoring, as stipulated in the Mentoring Handbook, wherein every Department assigns a mentor to a group of 15 – 20 students. The mentor provides students guidance in terms of technical knowledge, 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. 1. Frequency of meetings: Every mentor conducts a 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 are held in an appropriate meeting environment and place where the mentee group can also get an opportunity to nurture a peer support system. 2. In-Meeting Process: The mentoring meetings are beneficial to students in various aspects like academic, behavioural, attitudinal and social. In the first meeting, the mentor provides encouragement and support to mentees, which helps to build self-confidence. For quick reference, the mentor collects data from his/her mentee group, which includes information about their family, OHU status, academic information, skill set, hobbies and their achievements. The mentor and mentees discuss their expectations of the mentoring relationship, to ensure clarity on expectations, roles and responsibilities. After this, in every subsequent meeting the mentor discusses with mentees about different issues like attendance, problems faced by OHU students, discussion on possible solutions, health issues, behaviour or attitude issues, and drop in academic year etc. Mentor asks students about difficulties they faced regarding a particular course, so that the mentor can personally discuss that issue with the concerned subject teacher. The mentor also discusses achievements of every mentee, including academic, societal, co-curricular, and extracurricular. Action plan is discussed with every mentee on aspects such as ways to excel academically, personal counselling, remedial measures and assistance for slow learners, resources and encouragement for advanced learners. In case there is a need, the mentor can refer a mentee to the Professional Counsellor. 3. Mentor-Mentee Meeting Reports: After every meeting, the mentor fills up "Mentor-Mentee Meeting Report", which indicates action plan on discussed problems, and includes areas of improvement and activities planned. At the end of the semester every mentor generates a "Feedback Report" based on the previous "Mentor-Mentee Meeting Report", which indicates plan of improvement for academically weak students and slow learners as well as special measures for advanced learners to further excel. If required, mentor also helps mentee by arranging expert counselling sessions on behavioural and emotional aspects. 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 at the Institute gives a 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
3571	165	1:21.6

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
165	165	0	18	17

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	Designation	Name of the award, fellowship, received from

2019	Prof. Yash Shah	Assistant Professor	Reviewer of IJTRD Journal
2019	Dr. Gajanan Nagare	Professor	Executive Council Member – BMESI
2019	Dr. Gajanan Nagare	Professor	Expert – Nano Mission - DST
2019	Dr. Sangeeta Joshi	Professor	Academic Advisory Support Serives
2019	Dr. Anjali Deshpande	Professor	Session chair RACEM 2019,Orientation for Mumbai University Sub.DSP
2019	Dr. Anjali Deshpande	Professor	Resource person for IEE SKEP lecture at LTCOE
2019	Dr. Anjali Deshpande	Professor	Nodal Technical coordinator for Virtual lab
2019	Prof.Sachin Deshpande	Associate Professor	LIC Member at Shree L R Tiwari College of Engineering
2019	Prof. Vibha Wali	Assistant Professor	Lead Trainer for Short term Course on Education Technology and Methodology and use of ICT Tools
2019	Dr. Sangeeta Joshi	Professor	AICTE EVC member

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BE	3139246	FE	20/04/2019	17/07/2019
BE	3139246	SE	20/04/2019	11/07/2019
BE	3139246	TE	20/04/2019	11/07/2019
BE	3139246	BE	20/04/2019	11/07/2019
BE	3139245	FE	20/04/2019	17/07/2019
BE	3139245	SE	20/04/2019	12/07/2019
BE	3139245	TE	20/04/2019	12/07/2019
BE	3139245	BE	20/04/2019	12/07/2019
BE	3139376	FE	20/04/2019	17/07/2019

| BE | 3139376 | SE | 20/04/2019 | 22/07/2019 |

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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 initiative 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 multiple modes like Academic Calendar, AAP, Orientation program and the student portal (vLive2) also faculty need to provide model solution on vRefer. b) Audit: Questions are set to evaluate the attainment of the desired Course Outcomes. Uniform question Paper of all divisions is audited by the respective Cluster Mentor, and based on difficulty level of question paper question bank will be given to students if necessary. 2. Reforms in Term Work: a) For Course: Experiments are designed to evaluate the attainment of the desired COs. A Problem Based Learning experiments and minimum 2 new experiments are introduced every year. b) For Final Year Projects: One industry review has been taken along with 2 faculty reviews for final year project and all faculties has floated project ideas for students to get the idea of scope of final year project. 3. Other Reforms: • Multiple beyond syllabus activities are conducted to make the CIE more robust and improve the effectiveness of learning, also use of ICT is implemented to strengthen teaching-learning process. • vTutorial and preliminary exam has helped in enhancing the effectiveness of learning Mathematics

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.

2.6 – Student Performance and Learning Outcomes

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

http://www.vit.edu.in/images/downloads/naac-uploads/2.6.1-QLM.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	114	94	82.45%
3139372	ME	Electronics	12	12	100%

		and Telecomm unication Engineering			
3139245	ME	Computer Engineering	12	12	100%
3139246	ME	Information Technology	12	12	100%
3139461	BE	Biomedical Engineering	64	55	85.93%
3139372	BE	Electronics and Telecomm unication Engineering	214	206	96.26%
3139376	BE	Electronics Engineering	213	204	95.77%
3139245	BE	Computer Engineering	219	217	99.08%
3139246	BE	Information Technology	218	207	94.95%
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

http://www.vit.edu.in/images/downloads/naac-uploads/Student-Satisfaction-Survey.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
Minor Projects	365	University of Mumbai, Mumbai	0.2	0.08
Minor Projects	365	University of Mumbai, Mumbai	0.3	0.12
Minor Projects	365	University of Mumbai, Mumbai	0.25	0.1
Minor Projects	365	University of Mumbai, Mumbai	0.4	0.16
Minor Projects	365	University of Mumbai, Mumbai	0.4	0.16
Minor Projects	365	University of Mumbai, Mumbai	0.15	0.06
Minor Projects	365	University of Mumbai, Mumbai	0.2	0.08
No file uploaded.				

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
Seminar on Internet Programming Applications in Industry (Flask and Django Framework)	Information Technology	07/09/2018
Seminar on Trends and Challenges in Security	Information Technology	25/09/2018
Seminar on Introduction to Parallel Processing Systems and Data Storage	Information Technology	26/02/2019
Seminar on Information Retrieval Techniques	Information Technology	14/03/2019
Seminar on Virtualization : Using Vmware	Information Technology	19/03/2019
Seminar on Business Intelligence Tools	Information Technology	28/03/2019
Seminar on The Life of Networks in Industry	Computer Engineering	23/08/2018
Data Science and Machine Learning Workshop	Computer Engineering	24/08/2018
Seminar on Audio In: Drop the Beat	Computer Engineering	30/08/2018
LinkedIn Masterclass Seminar	Computer Engineering	30/08/2018
Canvas - A Photoshop and Lightroom Workshop	Computer Engineering	10/09/2018
Workshop on 3D Modelling and Animation.	Computer Engineering	25/09/2018
Seminar on Business Intelligence and its wide spread scope in Data Science and Business Analytics	Computer Engineering	26/09/2018
CyberFrat Conference	Computer Engineering	29/09/2018
Seminar on Trends and Challenges in Security	Computer Engineering	25/09/2018
Workshop on GNS3	Computer Engineering	06/10/2018
Seminar on Intel Processors	Computer Engineering	12/10/2018
Seminar on Application of Power Electronics and Drives	Electronics Engineering	07/07/2018
Seminar on Applications of Digital Circuit Design	Electronics Engineering	19/07/2018
Micro- and Nano- fabrication of novel	Electronics Engineering	26/07/2018

solid state detectors			
Seminar on Routing Protocols	Electronics Engineering	01/08/2018
Seminar on ASIC Verification Need, Design Methodologies and Challenges	Electronics Engineering	10/08/2018
Seminar/ Technical talk on Machine Learning Evolution of Artificial Intelligence	Electronics Engineering	21/08/2018
Seminar on Technical paper presentation	Electronics Engineering	25/08/2018
Workshop on Python and OpenCV Technology	Electronics Engineering	01/09/2018
Seminar on Communication Interface in Embedded System (I2C)	Electronics Engineering	28/09/2018
Workshop on Text Editor Development	Electronics Engineering	06/10/2018
Workshop on PCB Designing	Electronics Engineering	06/10/2018
Seminar on Recent Trends and Market View on Medical Imaging Industry	Electronics Engineering	09/10/2018
Seminar on Advances in Instrumentation	Electronics Engineering	10/10/2018
Seminar on Networks Design and Budget in Industry	Electronics Engineering	01/01/2019
Seminar on Mobile Technologies	Electronics Engineering	28/01/2019
Lecture Series by Inspire Resonate Integrate Succeed (IRIS), the annual flagship event of IEEE.	Electronics Engineering	02/02/2019
Workshop on Virtual Lab	Electronics Engineering	26/02/2019
Seminar on Real time applications of Digital Control Systems	Electronics Engineering	05/03/2019
Seminar on Microprocessor Applications and Industry Needs	Electronics Engineering	05/03/2019
Seminar on Electronic Product Design in Industry	Electronics Engineering	15/03/2019
Seminar on Vending Machine Controlling System	Electronics Engineering	20/03/2019

Workshop on LT Spice Simulation Software	Electronics and Telecommunication Engineering	24/01/2019
Seminar on Industrial Application of Networking	Electronics and Telecommunication Engineering	29/01/2019
Seminar on Recent Trends in Communication	Electronics and Telecommunication Engineering	29/03/2019
Seminar on Data Warehouse and its implementation and Data Migration and MIS	Electronics and Telecommunication Engineering	04/04/2019
Seminar on Applications of Signals systems	Electronics and Telecommunication Engineering	04/04/2019
Workshop on Cardiopulmonary Resuscitation (CPR)	Biomedical Engineering	02/03/2019
Seminar on How to make two from one-molecular regulation of cell division	Biomedical Engineering	13/03/2019
Seminar on Hospital Administration	Biomedical Engineering	16/03/2019
Seminar on IoT Of Sensors	Biomedical Engineering	16/03/2019
Seminar On Significance Of 3D Printing	Biomedical Engineering	16/03/2019
Seminar on Biomedical And Speech Application	Biomedical Engineering	16/03/2019
Seminar on International Supply Chain Management by Mr. T.P.Bawa.	Master of Management studies	18/09/2019
Seminar on Training with Performing Art by Ms.Nirzari Bhide.	Master of Management studies	10/10/2018
Seminar on Share of Mind and Share of Heart as Contemporary measures of competitive success in the fast food market by Dr.Dhanashree Mahadevan.	Master of Management studies	13/10/2018
Seminar on Ego DefenseMechanisms" by Mr.K.V.Ganapathy	Master of Management studies	17/10/2018
Seminar on Equity Derivatives by Mr. Sachin Jawade and Mr. Hari HaranIye	Master of Management studies	21/10/2018
Seminar on Fundamental and Technical Analysis by	Master of Management studies	11/11/2018

Mr. Chaitanya Joshi		
Seminar on Leadership and Leadership Theories by Dr.Navita Mahajan.	Master of Management studies	15/11/2018
Seminar on Probability by Dr. Pradnya Khandeparkar	Master of Management studies	03/12/2018
Seminar on Understanding Basic Finance by Dr.Sujit Metre	Master of Management studies	17/01/2019
Seminar on Analysis of Financial Statements by Mr.P.M.Nayak	Master of Management studies	22/01/2019
Seminar on General Management by Ms.Shoma Shrivastava	Master of Management studies	28/01/2019
Seminar on IT in Supply Chain Management by Mr.Jayant Kulkarni	Master of Management studies	28/01/2019
Workshop on Digital Marketingin association with MakeIntern and i5summit (IIM Indore Student Welfare Event)	Master of Management studies	02/02/2019
Workshop on Digital Marketingin association with MakeIntern and i5summit (IIM Indore Student Welfare Event)	Master of Management studies	03/02/2019
Workshop on Digital Marketingin association with MakeIntern and i5summit (IIM Indore Student Welfare Event)	Master of Management studies	04/01/2019
Seminar on MIS by Mr.Pawan Sawant	Master of Management studies	04/03/2019
Seminar on Commercial Banking by Mr.Milind Limaye	Master of Management studies	09/03/2019
Seminar on Financial Management by Mr.Hemant Joshi.	Master of Management studies	31/03/2019
Seminar on Commercial Banking by Ms.Vijaya Iyer and Ms.Pratibha Nadkarni	Master of Management studies	02/04/2019
Seminar on Overview of Research Projects in Industry by Dr.Sameer Siyal, Senior Manager Research and Development at Tata Teleservices.	Master of Management studies	05/04/2019
Seminar on HRM by	Master of Management	05/04/2019

Mr.Eisen Picardo	studies	
Seminar on Analysis of Financial Statements by Ms.Vijaya Iyer.	Master of Management studies	08/04/2019
Seminar on Data analysis and Interpretation by Prof.N. R. Hegde.	Master of Management studies	12/04/2019
Seminar on Corporate Valuation by Mr.Vaibhav Banjan	Master of Management studies	12/04/2019

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: Crop disease detection using convolutional neural network	Nikhil Patil,Wankhedkar Vaibhav, Mohammadumar Mohammadrajabali, Prof. Deepali Nayak	Tantravihar-2019, Vidyalankar Institute of Technology, Mumbai, India.	08/04/2019	Students and Guide
Best Project Award: Futuristic traffic signals	Mrunal Ghadge, Sharvari Sonak, Ashwami Dalvi, Prof. Kanchan Dhuri	Tantravihar-2019, Vidyalankar Institute of Technology, Mumbai, India.	08/04/2019	Students and Guide
Best Project Award: Attendance using face recognition	Jasvin James, Mohammed Ali ,Satwaj Dhavale, Omkar Zemse, Prof. Prakash Parmar	Tantravihar-2019, Vidyalankar Institute of Technology, Mumbai, India.	08/04/2019	Students and Guide
Best Project Award: Getting things done with serverless home automation	Darezik Damkevala, Rohit Lunavara, Mansi Kosamkar, Prof. Suja Jayachandran	Tantravihar-2019, Vidyalankar Institute of Technology, Mumbai, India.	08/04/2019	Students and Guide
Best Project Award: Security system using facial recognition	Mithilesh Patankar, Aum Deshpande, Aunsh Arekar, Prof. Mandar Sohni	Tantravihar-2019, Vidyalankar Institute of Technology, Mumbai, India.	08/04/2019	Students and Guide
Best Project Award: Sign Language Estimation	Pushkar Kurhekar, Sourav Sinha, Janvi Phadtare, Prof. Kavita Shirsat	Tantravihar-2019, Vidyalankar Institute of Technology, Mumbai, India.	08/04/2019	Students and Guide
Best Project Award: AmbhiBOT - A smart surveillance	Kunal Dua, Gauri Bahatkar, Rajshree Pawar, Siddhant	Tantravihar-2019, Vidyalankar Institute of Technology,	08/04/2019	Students and Guide

howercraft	Bendkar, Prof. Shrikant Velankar	Mumbai, India.		
Best Project Award: Autonomous tracked vehicle	Dilip Ramgir, Ramesh Maurya, Aditya Sawant, Shrikant Velankar	Tantravihar-2019, Vidyalankar Institute of Technology, Mumbai, India.	08/04/2019	Students and Guide
Best Project Award: V!OASIS	Mayur Bharankar, Rishikesh Mudaliyar, Sourabh Kothari, Roshankumar Poojari, Prof. Nayana Mahajan	Tantravihar-2019, Vidyalankar Institute of Technology, Mumbai, India.	08/04/2019	Students and Guide
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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
Innovation Centre	algOmega ideaLABs	Value3 Advisory	algOmega with Vidyalankar Campus	Research, Innovation and technology startup incubation	01/10/2018
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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
15	12	67

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

Name of the Department	Number of PhD's Awarded
Electronics Engineering	1

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	Computer Engineering	0	0
International	Electronics Engineering	1	1.38
International	Electronics and Telecommunication Engineering	2	0.24
International	Biomedical Engineering	0	0

International	Master of Management Studies	0	0
International	Information Technology	10	5.9
International	First Year Engineering	2	2.12
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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
Biomedical Engineering	1
Electronics and Telecommunications Engineering	18
Electronics Engineering	7
Computer Engineering	14
Information Technology	6
First Year Engineering	5
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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
EDM-Survey Of Performance Factors And Algorithms Applied	Deepali Vora	IJET (International Journal of Emerging Technologies in Learning)	2018	4	Vidyalankar Institute of Technology, Mumbai	0
Optimal hops for minimal route power under SINR constraints in wireless sensor networks	Sangeeta Joshi	IET Wireless Sensor Systems	2018	3	Vidyalankar Institute of Technology, Mumbai	3
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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

EDM-Survey Of Performance Factors And Algorithms Applied	Deepali Vora	IJET (International Journal of Emerging Technologies in Learning)	2018	15	0	Vidyalankar Institute of Technology, Mumbai
Optimal hops for minimal route power under SINR constraints in wireless sensor networks	Sangeeta Joshi	IET Wireless Sensor Systems	2018	21	3	Vidyalankar Institute of Technology, Mumbai

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

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	10	34	1	16
Presented papers	58	2	0	0
Resource persons	18	2	2	21

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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Paper Bag Distribution	National Service Scheme, VIT Unit under University of Mumbai	1	12
Dadar Beach Cleaning	Beach Please committee, Mumbai	9	25
Traffic Control	National Service Scheme , VIT Mumbai	1	31
Ganpati visarjan Traffic Control	Mumbai Traffic Police	1	8
Antiplastic Street Play	National Service Scheme , VIT Mumbai	2	12
E-waste Collection	Eco Recycling Ltd, Andheri Mumbai	5	543
Orientation Program	National Service	1	12

	Scheme, VIT Unit under University of Mumbai		
Kerala Flood Relief	Desitube, Chembur	2	22
Flag Hosting	National Service Scheme, VIT Unit under University of Mumbai	2	34
Paper Bag Making	National Service Scheme, VIT Unit under University of	4	46
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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Medical checkup camp	Recognition letter	Lions Club of Shivaji Park, Mumbai	5
E-waste Collection	Recognition letter	M/S Eco Reco Ltd, Andheri, Mumbai	543
Keral Flood	Recognition letter	Desitube, Chembur	22
Beach cleaning	Recognition letter	Beach Please committee, Mumbai	25
Cloth Donation	Recognition letter	Jagori Foundation, Mumbai	9
Road Safety	Trophy and Certificate	United Way, Mumbai	5
Leadership Training Camp	Recognition letter	University of Mumbai	1
MR Vaccination	Recognition letter	Antop Hill Municipal Hospital, Mumbai	21
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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Enviromental awareness	National Service Scheme, VIT Unit under University of Mumbai	Paper Bag Making	4	46
Enviromental awareness	National Service Scheme, VIT Unit under University of Mumbai	Antiplastic Street Play	2	12

Social Awareness	Desitube, Chembur	Kerala Flood Relief	2	22
Safety Awareness	Mumbai Traffic Police	Ganpati visarjan Traffic Control	1	8
Enviromental awareness	Eco Recycling Ltd. Andheri	E-waste Collection	5	543
Safety Awareness	National Service Scheme, VIT Unit under University of Mumbai	Traffic Control	1	31
Swatch Bharat Mission	Beach Please committee, Mumbai	Dadar Beach Cleaning	9	25
Enviromental awareness	National Service Scheme, VIT Unit under University of Mumbai	Paper Bag Distribution	1	12
Health awareness	National Service Scheme, VIT Unit under University of Mumbai	Dengue Street Play	1	13
Health awareness	Lions club Shivaji Park, Mumbai	Medical checkup camp	1	5
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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Research , In the field of Electronics Communication Engineering	Prof.Pravin Annadate Vidyalankar Institute of Technology , Mumbai	Utilization of lab resources of Anna university of technology coimbatore for research and collaboration on non-funding basis	50
Research , Embedded Processor based Multi-Core Processing Optimization	Prof.Shrikant Velenkar Vidyalankar Institute of Technology , Mumbai	Utilization of lab of SP Institute of Tech. University of Mumbai for PHD research and collaboration on non-funding basis	48
Research , In the field of Design of hybrid Fuzzy PI controller for an	Prof.Nayana Mahajan, Vidyalankar Institute of	Utilization of lab YCCE, college of Engineering, Nagpur for PHD research	45

Industrial weigh feeder application	Technology , Mumbai	and collaboration on non-funding basis	
Research , Microwave Remote Sensing	Prof. Akhil Masurkar,Vidyalankar Institute of Technology , Mumbai	Utilization of lab of Veermata Jijabai Technological Institute (VJTI, Mumbai) for PHD research and collaboration on non-funding basis	52
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 PHD research and collaboration on non-funding basis However academic resources being shared	50
Research Project Title: Designing of Feedback Control System for Phase Measurement introduced by Nano-sample of GaAs.	Dr.Arpit Revenkar, Vidyalankar Institute of Technology , Mumbai	Working as Visiting Researcher in Department of Nuclear Atomic Physics Tata Institute of fundamental Research , Mumbai	52
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 PHD research and collaboration on non-funding basis	45
Research , Investigating Big Data Analytics in Indian Industries for Building Efficiencies	Dilip Motwani,Vidyalankar Institute of Technology , Mumbai	Utilization of lab of Thadomal Shanani College of Engineering, Mumbai University.for PHD research and collaboration on non-funding basis	42
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 PHD research and collaboration on non-funding basis	48
Research , Augmenting and	Vidya Chitre,Vidyalankar	Utilization of lab of Terna college of	47

	anatomizing performance for sdn enabled HPC task scheduling	Institute of Technology , Mumbai	Engineering for PHD research and collaboration on non-funding basis		

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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 simulation real time system	Regional Training Center - WR, Airports Authority of India, ATS Complex, CSI Airport, Sahar Road, Mumbai – 400 100	17/12/2018	28/12/2019	Ruchita Rajesh Devlekar
Internship	Software simulation real time system	Regional Training Center - WR, Airports Authority of India, ATS Complex, CSI Airport, Sahar Road, Mumbai – 400 100	17/12/2018	28/12/2019	Divya Mokhara
Internship	Software training	Jawaharlal Nehru Port Trust, Sheva, Uran - 400702.	20/12/2018	03/01/2019	Agawane Aayushi Milind
Internship	Software training	Jawaharlal Nehru Port Trust, Sheva, Uran - 400702.	20/12/2018	04/01/2019	Yashashree D Koli
Internship	Software training	Jawaharlal Nehru Port Trust, Sheva, Uran - 400702.	20/12/2018	05/01/2019	Shrushti Dilip Kumbhare
Internship	Software training	Siemens Ltd, Kalwa, Thane Belapur	23/12/2018	20/01/2019	Ameya Amol Morojkar

Internship	Software training	Road, MIDC Industrial Area, Mumbai -4000708			
Internship	Software training	Siemens Ltd, Thane-Belapur Road, Airoli	17/12/2018	14/01/2019	Tanmay Bhambure
Internship	Software training	Airports Authority of India, ATS Complex, CSI Airport, Sahar Road, Mumbai - 400 099	17/12/2018	28/12/2018	Sushmita Mukherjee
Internship	Software training	Regional Training Center - WR, Airports Authority of India, ATS Complex, CSI Airport, Sahar Road, Mumbai – 400 099	17/12/2018	28/01/2019	Sushmita Mukherjee Sushmita Mukherjee
Internship	Software training	Regional Training Center - WR, Airports Authority of India, ATS Complex, CSI Airport, Sahar Road, Mumbai – 400 099	17/12/2018	28/12/2018	Pradnya Ghodekar
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 3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
AlgOmega ideaLABS – a technology startup incubation and acceeration initiative	04/08/2018	• MOU Signed (2018) • Hackathon (2019)	37
IBM Edtech Partner (Department of electronics Engineering) Eduvance - The	15/05/2019	• Develop "Cognitive IoT and Data Analytics laboratory" to facilitate the	32

Educational wing, Vanmat Technologies Pvt. Ltd., Mary Anne Heights, Santacruz(E), Mumbai		donation of education material and cloud promo code from companies that IBMEDP has a tie-up with namely IBM. • Provide knowledge sharing on latest technologies and projects wi		
IBM Edtech Partner (Electronics Telecommunication Engineering) Eduvance - The Educational wing, Vanmat Technologies Pvt. Ltd., Mary Anne Heights, Santacruz(E), Mumbai	15/05/2019	• Develop "Cognitive IoT and Data Analytics laboratory" to facilitate the donation of education material and cloud promo code from companies that IBMEDP has a tie-up with namely IBM. • Provide knowledge sharing on latest technologies and projects wi		64
IBM Edtech Partner (Information Technology) Eduvance - The Educational wing, Vanmat Technologies Pvt. Ltd., Mary Anne Heights, Santacruz(E), Mumbai	15/05/2019	• Develop "Cognitive IoT and Data Analytics laboratory" to facilitate the donation of education material and cloud promo code from companies that IBMEDP has a tie-up with namely IBM. • Provide knowledge sharing on latest technologies and projects wi		24
IBM Edtech Partner (Computer Engineering) Eduvance - The Educational wing, Vanmat Technologies Pvt. Ltd., Mary Anne Heights, Santacruz(E), Mumbai	15/05/2019	• Develop "Cognitive IoT and Data Analytics laboratory" to facilitate the donation of education material and cloud promo code from companies that IBMEDP has a tie-up with namely IBM. • Provide knowledge sharing on latest		72

		technologies and projects w	
Wipro GE Healthcare Private Limited	17/04/2019	Proposed Actvities : • In this HCI, GE Healthcare will set up a Lab in the Biomedical Engineering Department with latest technology medical equipment such as, • Ventilator Ana	90
Microsoft AEP – Authorized Education Partner	30/06/2018	Value Added Course on Oracle/ PL-SQL (2017)	53
Confederation of Indian Industry Young Indians	25/09/2018	The students get multiple opportunities to interact, network with Professionals from diverse backgrounds, Networking opportunity with peers across the country worldwide, An opportunity to participate in all major events.	120
Indian Institute of Technology Bombay, Powai, Mumbai, India	01/11/2018	• MoU signed (2017) • Establishment of Local Chapter(2017) • NPTEL Awareness Workshop(2017) • Publicity for January to April Course run(2017) • Registration and Monitoring of Courses. (2017,18)	460
Internshala, Scholiverse Educare Private Limited, Unitech Business Zone, Haryana	13/11/2018	• MoU signed (2017) • Students applied online through Internshala Website for the companies they are interested in (2017,1018) • Selected students sent for internship to respective companies. (2017,1018)	16
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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
100	184.6

4.1.2 – Details of augmentation in infrastructure facilities during the year

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

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4.2 – Library as a Learning Resource

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

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

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
e-Journals	1	869929	1	789043	2	1658972
CD & Video	2232	0	0	0	2232	0
Others(specify)	26	22243	0	0	26	22243

Journals	117	276945	117	335900	234	612845
Digital Database	3	317245	2	260787	5	578032

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Abhishek Barve	All modules of Microcontroller and Embedded Programming_INFT_SEMV-2018-19	Learning Management System	12/10/2018
Akshay Loke	All modules of Data Structures and Analysis_INFT_SEMIII-2018-19	Learning Management System	12/10/2018
Amaya Pethe	All modules of Digital Circuit Design_ETRX_SEMIII-2018-19	Learning Management System	12/10/2018
Amit Dhanwani	All modules of Database Management System_CMPN_SEMV-2018-19	Learning Management System	12/10/2018
Amit Nerurkar	All modules of Computer Network_CMPN_SEMV-2018-19	Learning Management System	12/10/2018
Anahita Garrad	All modules of Applied Mathematics-I_FE_SEMI_2018-19	Learning Management System	12/10/2018
Anand Tripathi	All modules of Electronic Devices and Circuit-I_EXTC_SEMIII-2018-19	Learning Management System	12/10/2018
Anuradha Joshi	All modules of Engineering Electromagnetics_ETRX_SEMV-2018-19	Learning Management System	12/10/2018
Arpita Raut	All modules of Cryptography and Network Security_INFT_SEMV-2018-19	Learning Management System	12/12/2018
Arun Chavan	All modules of Microprocessor_CMPN_SEMV_2018-19	Learning Management System	12/12/2018

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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	897	551	2	1	1	69	277	200	0
Added	150	150	0	0	0	0	0	0	0
Total	1047	701	2	1	1	69	277	200	0

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
E-content Facilities	http://www.vit.edu.in/images/downloads/naac-uploads/Facility_for_econtent.pdf

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
100	246.97	600	704.16

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)

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 standard policies. a) Routine Maintenance: • Daily cleaning, dusting, sweeping and mopping by trained housekeeping staff using multiple automated cleaning equipment with proper 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 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 (combating general disinfection, rodent treatment and larva breeding)

is done periodically. 2. Maintenance of IT Infrastructure Systems department comprising of 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. Institute has a fulltime maintenance engineer and an independent maintenance room. Every laboratory maintains a complete record of the equipment such as dead-stock register, maintenance register, utilization and lab-readiness certificate. 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: Library Committee consist of convenor and department coordinators. Committee periodically review the books, periodicals and journals requirements requested by the faculty. The library staff is responsible for issue/return, maintenance of the books and e-resources. The library is fully automated by Institute's MIS system which maintains library functions. Sports Complex: Sports department consists of a sports officer and three sports instructors. They carry out training activities and supervise matches during the annual sports event. Institute has an indoor gymkhana, an outdoor multi-sport turf ground, football ground and a handball court. The general cleanliness, up-keep of the grounds and

https://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	3228	12903175
Financial Support from Other Sources			
a) National	PMSSS	2	48000
b)International	NIL	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Softskill Development	27/10/2018	541	1. Campus Credentials 2. Smartwayz 3. Prof. DN Krishna and Team, TPO, Vidyalankar Institute of Technology, Wadala, Mumbai. Ph No - 9821030960
Remedial Coaching	19/01/2019	30	Dr. Saurabh Mehta, Chief Academic

			Officer, Vidyalankar Institute of Technology, Wadala. Ph. No - 9833955002. Prof. Vibha Wali, Assistant Professor, Vidyalankar Institute of Technology, Wadala. Ph. No – 9324265453
Language Lab	06/08/2018	1407	Prof. Meenakshi Nandula, Department of First Year Engineering, Vidyalankar Institute of Technology, Wadal , Mumbai. Ph No - 9819469087
Bridge Courses	02/02/2019	389	Prof. Shrikant Velankar, Professor, Department of Electronics Engineering, Vidyalankar Institute of Technology, Wadala. Ph. No – 9321046470
Personal Counselling	09/07/2018	186	Dr. Archana Samarth, Ph. No – 7738672246
Mentoring	09/07/2018	3228	Dr. Saurabh Mehta, Chief Academic Officer, Vidyalankar Institute of Technology, Wadala. Ph. No - 9833955002
Yoga and Meditation	21/06/2018	86	Prof. Arun Chavan, Head of the Department, Department of Computer Engineering, Vidyalankar Institute of Techology, Wadala. Ph. No - 9820149100
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	Guidance for competitive exam and career counselling	1967	945	55	442
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
1	1	57

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
As listed in the attachment	1414	416	As listed in the attachment	46	26
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	1	Under Graduate	Electronics and Telecomm unication Engineering	K.J Somaiya College of Engineering	M.Tech, Electronics and Telecomm unications
2019	1	Under Graduate	Biomedical Engineering	K.J Somaiya College of Engineering	M.Tech, Electronics and Telecomm unications
2019	1	Under Graduate	Computer Engineering	Indiana University, Bloomington, USA	Masters Degree in Residential Data Science
2019	1	Under Graduate	Information Technology Engineering	IIM Shillong ,India	Master of Business Adm inistration (MBA)
2019	1	Under	Computer	IIIT ,	M.Tech, CS

		Graduate	Engineering	Hyderabad, India	
2019	1	Under Graduate	Electronics and Telecommunication Engineering	Centre of Development of Advanced Computing,Pune,India	PG Diploma in VLSI
2019	2	Under Graduate	Computer Engineering	Columbia University,New york, USA	MS in Information Systems
2019	1	Under Graduate	Information Technology Engineering	Dublin city Universitiy, Ireland	Msc in Computing (Data analytics)
2019	1	Under Graduate	Computer Engineering	IIM , Jammu,India	Master of Business Administration (MBA)
2019	1	Under Graduate	Computer Engineering	IIT, Bombay,India	M.Tech in Computer Science
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
GATE	2
GRE	43
TOFEL	24
CAT	9
Any Other	7
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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Saga of Raaga : Friday Pathshala (Cultural Council)	Institute level	20
Dandiya Night	Institute level	1100
Just Jam	Institute level	45
Contraption	Institute level	45
FP(Cultural)	Institute level	40
Departmental Week Class Wars	Institute level	120
Traditional Day	Institute level	1700
Coke Studio	Institute level	25
Flashmob	Institute level	120

Suit and Saree Day	Institute level	1500
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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	6th in National Water Swimming C ompetition 2019, Mumbai	National	1	0	18101B0043	Mr. Prathmesh Lumaji Dhuri
2019	Winner and titled as Miss fashion Icon in Mr and Miss universe 2019	National	0	1	17103C2016	Anusha Singh
2018	Qualified for Terpsi chore at Pearl National cultural fetsival at Bits Pilani Hyderabad campus	National	0	1	16102A0063	Snehal Shinde
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Institute has strong-willed Student Council, Students Chapters and Students Association. Students represent in academic and administrative bodies. Student Council: The Council aims to bring out hidden-potential and creative-skills of students, organizes Cultural, Sports, Technical and Literary activities. It provides an outlet, molding them to face challenges existing in highly competitive environment. "Friday Pathshala" is organized at the end of intensive academic week where Students engage in qualitative activities like Fresher's Eve, Dance, Fashion Show, VIT-MUN, Contraption, V-Emperor, Flash Mob, Musical Concert. The annual festival "VERVE" provides avenue for creativity, team building, leadership and camaraderie amongst students including co-curricular and extra-curricular activities. Cultural Council: Many extra-curricular activities are organized throughout the year. "Sound of Circuits" was organized this year. Intercollegiate Dance, Drama, Fashion show, singing, acting and music were organized to inculcate hobbies of the students. The Dance and Fashion show team won many competitions across state and were acknowledged by many institutes. Technical Council: Technical activities such as paper

presentation, quiz, hands-on workshops, talks by eminent personalities, technical fun games are organized. "IGNITE", a technical extravaganza is organized every year. Sports Council: Well-equipped Gymkhana and open grounds for students are available to engage in numerous sport activities like cricket, 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. ACM organized Seminar on "C Programming using IDE in association with Google" and National Seminar on "Brainstorming Paradigm Shifts in CSE Education". The CSI conducted "Cyberfrat: A National Conference on Cyber Space and Security", "IO: Flagship event giving insights about Interactive devices". IEEE organized Tech Talk, Minecraft Maze Runner, Save Your Circuit and Code Decode. Students Associations: Every Department has Student Associations CESA, ITSA, EESA, ETSA with a faculty convener and students. Various technical workshops, invited talks, skills/knowledge enhancement programs are organized. Representation on the administrative committees: Student feedback on amenities: Facility Management Department is in place to address the problems pertaining to classroom, infrastructure, library, food, water and hygiene. Every Department has faculty coordinator to whom Students communicate the problems if any. NSS: NSS team sensitizes students towards societal issues and community services. It instills the idea of social welfare to the students and provides service to the society. Alumni Association: The Associations strengthen the Alumni and foster a spirit of loyalty and promote general welfare to the Institution. Anti-Ragging committee: A student and Parent are nominated as members of Anti-Ragging committee. It publicizes actions and creates awareness among the students against ragging ensuring a ragging-free campus. College Development Committee (CDC): The Committee facilitates by receiving inputs on overall development plan of the college from students' perspective. Mahila Takrar Nivaran Samiti: Student representation facilitates to investigation into the information against the complaints launched, if any.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

No

5.4.2 – No. of enrolled Alumni:

6780

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

200000

5.4.4 – Meetings/activities organized by Alumni Association :

In the academic year 2018-19, the Alumni Committee of Vidyalankar Institute of Technology had organized five committee meetings on the dates 23rd June, 14th July, 28th July, and 25th August 2018. 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 ten guest lectures, by all five departments of Vidyalankar Institute of Technology, viz. Computer Engineering Department (CMPN), Information Technology Department (INFT), Electronics Engineering Department (ETRX), Electronics and Telecommunication Department (EXTC), Biomedical

Department (BIOM), and Department of General Science (F.E.). During the odd semester, the first guest lecture was organized for INFT students on 3rd August 2018 on the topic of "Overview of Machine Learning Artificial Intelligence". The guest speaker for the event Mr.Vishal Bhalla, MS in Informatics from Technical University of Munich, Germany covered various aspects of artificial intelligence, ML, deep learning and there future in automation, medicinal assists, etc. Followed by this, the next guest lecture was organised by the CMPN department on the topic of "Business Intelligence and its wide scope in Data Science and Business Analytics" by Mr. Naitik Soni, Software Engineer, Larsen, and Toubro Infotech on 26th September 2018. The last guest lecture of the odd semester was organized by ETRX EXTC departments on 9th October 2018 on the topic of "Career opportunities in Indian Navy" by Sub-lieutenant. Ankita Shambudas. Similarly, six guest lectures were organized during the even semester of 2018-19. The first guest lecture of the odd semester was organised on 27th February 2019 by FE department on the topic of "To Speak or Not to Speak" by Mr. Abhay Valsangkar, Master NLP Practitioner Facilitator. The ETRX department had organized a guest lecture on "System and method for programming a memory device" on 18th March 2019 by Himanshu Naik, Staff Engineer, Enterprise Systems Engineering, Western Digital, San Francisco Bay Area. The next guest lecture was on the topic of "Introduction to patents" which enlightened the students on the procedure of applying for patents, its procedures. It was organized by the BIOM department on 25th March 2019. A guest lecture on "Career Guidance" was organized on 28th March 2019 by the EXTC department. The lecture was delivered by Mr. Omkar Desai, Software Test Automation, TCS, were students even were given an insight into various opportunities they have in the field of software engineering. The last guest lecture of the academic year was by Mr. Akshay Doshi, Entrepreneur and App Developer, SM Global Solutions, Mumbai on the topic of "Career Guidance": His journey towards his start-up", organized on 9th April 2019, by INFT and CMPN department.

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: 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 to decentralization and participative involvement of the faculty. Second Practice:

Procurement Process Development of laboratories is always a priority for the Institute, and it is always ensured that all the laboratories are adequately equipped. The respective faculty Lab in charges initiate the the process by reviewing: 1. New requirements as per syllabus revision, if any, 2. Industry requirements 3. Cluster Mentor inputs The technical staff and subject teachers are involved for the preparation of proposal which is subsequently sent to the HOD for approval. The HOD then reviews the requirements based on the availability and current status of equipment, product specifications and the quoted price of the same. Then the consolidated proposals of all the departments are sent to the Chief Academic Officer who further recommends the proposals on the basis of the budget sanctioned for each department for such capital expenditures. All such ratified procurement proposals from CAO are set before the Purchase Committee comprising of Director, Principal, Vice Principal and external experts for the finalisation of technical specifications and quantity. The vendors are finalized based on the comparative analysis with respect to the available quotations. The purchase orders are then prepared based on the product specifications, quantity, quoted price, quality specifications, place and date of delivery. On receipt of the equipment the purchase committee coordinator inspects the quality of goods /assets and prepares a quality inspection report (If required). The Purchase committee coordinator and the lab in charges also inspect the functioning of the technical asset. The concerned department submits the installation and commissioning report to the HOD. The process of equipment purchase is reinforced due to the decentralisation and active involvement of faculty and technical

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
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.
Industry Interaction / Collaboration	Well established Industry Institute interaction committee (IIIC) is existing in the institute. Research 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.
	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 joinee faculty mentoring system, non-teaching staff training, co-ordination related to medi-claim etc.
	Library, ICT and Physical Infrastructure / Instrumentation	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 organisations such as TIFR, BARC, IIT Bombay etc., research linkages with industries like LT, Siemens, TCS, Eduvance, IMC etc. Vidyalankar Consultancy Services (VCS) also supports for providing solution to real life projects such as Chakali Maker, vAssistance, IoT vBicycle. Four minor research proposals are accepted by the UoM for funding of Rs. 1,15,000/- during the year 18-19.
	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 organisations such as TIFR, BARC, IIT Bombay etc., research linkages with industries like LT, Siemens, TCS, Eduvance, IMC etc. Vidyalankar Consultancy Services (VCS) also supports for providing solution to real life projects such as Chakali Maker, vAssistance, IoT vBicycle. Four minor research proposals are accepted by the UoM for funding of Rs. 1,15,000/- during the year 18-19.
Examination and Evaluation	To ensure that the entire system is transparent, time bound and efficient, the Examination Cell is well- equipped with adequate and competent manpower 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.
Teaching and Learning	The Institute is conscious to serve students of different backgrounds and abilities, through effective teaching learning processes (TLP). Emphasizing on the significance of meticulous academic planning, constructive feedback and continuous improvement, Academic Preview Process (APP) is conducted at the beginning of each semester in consultation with Cluster Mentors to finalise the AAP. Dissemination of plan and effective content delivery is ensured through Academic Review Process at the end of each semester. GAPs in the curriculum are satisfied through various BSAs. As a quality initiative and to engage digital natives, MOOCs are made compulsory for third year students from the year 18-19.
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 18-19.

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

E-governace area	Details
Planning and Development	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.
Administration	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.
Finance and Accounts	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
Student Admission and Support		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 Waver 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
Examination		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.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Jay Bhat	Nuances of	–	2500

Year		Research Methodology and Data Analysis using SPSS and Excel			
2018	Nisy Mathew	Machine Learning and Smart Devices	-	800
2018	Prachi Mujawar	Machine Learning and Smart Devices	-	800
2018	Manoj Suryawanshi	Machine Learning and Smart Devices	-	800
2018	Nayana Mahajan	Machine Learning and Smart Devices	-	800
2018	Pranita Padhye	Machine Learning and Smart Devices	-	800
2018	Shraddha Panbude	Machine Learning and Smart Devices	-	800
2019	Swapnil Sonavane	Recent Advances and Challenges in Engineering and Management"-(RACEM-2019)	-	1000
2019	Umesh Kulkarni	Recent Advances and Challenges in Engineering and Management"-(RACEM-2019)	-	1000
2019	Pankaj Vanwari	Recent Advances and Challenges in Engineering and Management"-(RACEM-2019)	-	1000
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Prof. C.S.		17/05/2019	17/05/2019	150	0

	Deshpande Memorial Lecture Series					
2018	Awareness workshop for NAAC peer team visit preparations		07/12/2018	07/12/2018	0	100
2018	One week workshop on NAAC: VITs Self study Report (SSR) Awareness		26/11/2018	30/11/2018	0	23
2018	One Day workshop on Current Challenges in Diagnosis and Radiotherapy of Cancer		06/10/2018	06/12/2018	7	0
2018	STTP on Machine Learning and Smart Devices		02/07/2018	10/07/2018	10	0
2018	Workshop on "Google Machine Learning Crash Course Study Jam"(MLCC)		22/12/2018	30/12/2018	3	0
	[View File](#)					

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
FDP on Introduction to Database Concepts - Final Assessment	1	01/04/2019	01/04/2019	1

STTP on "Elements of Research Methodology and Technical Writing"	1	20/05/2019	24/05/2019	5
3 Days STTP on "using R for data visualization and analytics"	2	25/04/2019	27/04/2019	3
Introduction to Robotics	1	24/05/2019	25/05/2019	2
MOOC Introduction to Database and SQL Querying	1	04/06/2019	04/12/2019	1
Android App Development	1	25/06/2019	28/06/2019	4
Front End VLSI Design and Verification	2	24/06/2019	29/06/2019	6
STTP on IoT with Data Science	2	24/06/2019	28/06/2019	5
Nuances of Research Methodlolgy and Data Analysis using SPSS and Excel	1	10/06/2019	15/06/2019	6
AICTE Sponsored FDP on Student Induction	4	06/06/2019	08/06/2019	3

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

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
106	165	13	81

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	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	Medical Assistance in Emergency, Counselling Centre, Recreational Activities, Sports Gymkhana, Parking facility for two wheelers

| Studies, Leaves, Gratuity, Leave Travelling Concession, Medical Insurance, Early Salary payments during festivals, Health Awareness Programs | Travelling Concession, Medical Insurance, Early Salary payments during festivals, Health Awareness Programs | |

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
Mr. Ameya Gharpure, Alumni, CharcoalEats FoodTech, Mumbai, Lazarus Department Store, Mumbai, INIFD, Fashion Designing School Mumbai, Angrezi Dhaba Restaurant, Mumbai, Powerica Limited, Mumbai, The Juice Centre, Mumbai, Rakesh Advertising Pvt. Ltd.	394000	Alumni contribution and VERVE 2018-19, Annual festival
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6.4.3 – Total corpus fund generated

0000

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		Yes	Institute Committee
Administrative	No		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

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

1. Training on "Workplace Etiquettes" 2. Training on "Towards Professionalism" 3. Training on "Fire Fighting"

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

• Data storage structure for institute and department wise archives • E resource development / concept videos • 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	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Five Days Workshop on "VIT NAAC SSR Awareness"for Heads and senior faculty	27/12/2018	27/12/2018	27/12/2018	25
2019	Department Preview, Academic and Administrative Audit	07/02/2019	07/02/2019	07/02/2019	200
2019	TedeX Talk	17/03/2019	17/03/2019	17/03/2019	150
2019	Vangaurd – Case Study Competition	07/03/2019	11/12/2018	07/03/2019	200
2019	FDP on Nuances in Research Methodology Data Anaysis by MMS Dept	10/06/2019	10/06/2019	10/06/2019	7
2019	Screening of short film Power of Vision to discuss with staff about how to set vision	06/04/2019	06/04/2019	06/04/2019	100
2018	Donation drive across the campus to help the	23/08/2018	23/08/2018	11/12/2018	50

| 2018 | Celebrating the Bravery of Indian Armed Forces - Parakram Parva | 27/09/2018 | 27/09/2018 | 27/09/2018 | 100 |
| 2018 | Sanjivani Deshpande Elocution Competition | 11/12/2018 | 11/12/2018 | 11/12/2018 | 100 |

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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	25/06/2019	25/06/2019	6	2
Committee Discussions of Internal Complaints Cell (ICC)/Mahila Takrar Nivaran Samiti	04/04/2019	04/04/2019	6	1
International Womens Day celebration	08/03/2019	08/03/2019	221	43
Programme on Career Opportunities conducted by Women in Engineering , IEEE committee	27/02/2019	27/02/2019	54	73
Committee Discussions of Internal Complaints Cell (ICC)/Mahila Takrar Nivaran Samiti	01/02/2019	01/02/2019	4	1

Committee Discussions of Internal Complaints Cell (ICC)/Mahila Takrar Nivaran Samiti	26/10/2018	26/10/2018	7	1
Committee Discussions of Internal Complaints Cell (ICC)/Mahila Takrar Nivaran Samiti	19/10/2018	19/10/2018	7	2

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
Rest Rooms	Yes	9
Scribes for examination	Yes	3
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
2019	1	0	05/02/2019	2	Maharashtra -Common Entrance Test exam centre	State level common entrance test for engineering admissions	7
2019	1	0	29/04/2019	1	Lok Sabha Election Booth	Election	0
2018	1	0	02/10/2018	1	Health Camp	ommunity welbeing and	2

2018	1	0	24/06/2018	92	Facilitation Center	Admissions	6

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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	01/01/2018	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 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.
Faculty Manual	01/01/2018	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.
	Mentoring Handbook	01/01/2018	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 full-fledged 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.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Social Cohesion-Traditional Day Celebration	12/02/2019	12/02/2019	3000

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

1. Green Landscaping 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. Academic Preview and Academic Review 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, vLive, 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 2018 • vRefer: Repository of academic resources of 200 courses till 2018 • 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: Academic Preview and Academic Review Objectives/intended outcomes: • Academic Preview: 1. To assess academic planning for effective curriculum delivery. (Plan) 2. To validate components of Academic Administration Plan (AAP). (Check) • Academic Review: 1. To verify Course File compiled by faculty. (Do Check) 2. To assess proper implementation of AAP to suggest corrective measures. (Check Act) Underlying principle Preparation is the key to success (Preview) feedback is the key to continuous improvement (Review). Contextual Features: 1. Academic preparation is monitored (Preview) and its efficacy checked (Review). 2. Preview and Review are designed to set benchmarks for quality technical education at the Institute. Challenges faced: 1. Identifying evaluation parameters, and assigning weightages. 2. Each teacher preparing Course File comprising 32 evidences including Course Diary. Description of the Practice: VIT has initiated Preview and Review Processes in 2014 to streamline curriculum delivery. For every faculty member, Preview is conducted before a semester begins and Review at the end of the semester. Preview: As "well-begun is half done", VIT initiated Preview to identify appropriate resources for effective course delivery. It is carried out in three stages: 1. Faculty prepares draft AAP with inputs from Cluster Mentor/s (Internal and External). 2. Faculty submits information in the self-evaluated Preview form. 3. HOD validates their academic preparedness. Subsequently, AAP is disseminated to students through vLive and vRefer. Review: Review is an evaluation of the implementation of AAP. It is carried out in three stages: 1. Faculty submits self-evaluated Review form. HOD and DAO validate the information at the Department level and forward it to the Institute Panel. 2. The Institute Panel (comprising senior faculty from other departments) verifies the Review Form and Course File. 3. Graded Report is submitted to the Principal and feedback is communicated to the faculty. Uniqueness: 1. Development of a comprehensive AAP. 2. Systematic mechanism for checking compliance of pre-teaching (planning) and post-teaching (evaluation) through SMARTER (SSpecific, MMeasurable, AAttainable, R Relevant, TTime bound, EEvaluated and RReviewed) goals. Constraints/limitations: 1. Moving from paper to paperless. 2. Logistics of organizing Preview/Review processes for all faculty. Evidence of Success Preview and Review are successful endeavours at VIT and lead to curriculum enrichment through: 1. Development of comprehensive AAP including BSA activities 2. Innovative teaching-learning methodologies 3. Development of e-learning resources 4. Proper documentation The BSA activities have raised from 78, 99, to 117 in the years 2015, 2016 and 2017 respectively. Also, the number of E-learning resources have substantially increased in these years from 48, 101, to 150 respectively. Preview Grades The Preview grades have improved quite significantly from 2016, 2017, and 2018 from the range of 14-35 up to 66-65

approximately Review Grades The review grades have consistently maintained an average between 51-54 in the years 2016 and 2017. Problems Encountered 1. Designing a suitable TLP to suit the learning needs of millennials. 2. Orienting teachers to adopt innovative teaching methods. These problems were resolved through discussion and analysis. Resources Required VIT is equipped with all the resources required for the implementation of the Preview and Review processes, which are now well-established practices at the Institute.

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

http://www.vit.edu.in/images/downloads/naac-uploads/Best-Practices.pdf

7.3 – Institutional Distinctiveness

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

Learner-Centricity to Generate Competent and Socially Sensitive Professionals VIT is committed to attaining its vision "To be a globally recognized engineering institute where learners are nurtured in a scholarly environment to evolve into competent professionals and researchers to benefit society." Learner-centricity is a priority and a way of life on the campus. VIT's thrust is to build competent professionals in a progressive ambience and it aims for Student Delight. Holistic personality of learners is developed through the right blend of appropriate toolset, a professional skillset and a motivated mindset. Appropriate Toolset VIT has thoughtfully catered to every aspect that a learner should be equipped with, in terms of learning resources and amenities. • Experienced and passionate faculty, trained from prestigious institutes such as IITB, UIUC, and Drexel University. • International award-winning world class infrastructure • ICT enabled vProvisions • Information Kiosks comprising iPads installed at key locations • Laboratories equipped with advanced equipment and technologies. • In collaboration with IITB, nodal center of Virtual Labs Professional Skillset Technical Skillset To facilitate participative and experiential learning VIT offers: • Various Bridge Courses and Value-Added Courses • Problem Based Learning Methodology • Tantravihar - the annual intercollegiate technical project competition and exhibition • Internships • Annual conference RACEM Soft Skillset To develop soft skills, students participate in: • Extra-curricular events organized by various committees and Friday Paathshala • Training sessions by internationally acclaimed Dale Carnegie Training Institute • Language Lab (vSpeak) which reinforces English proficiency • Pre-placement training and AMCAT Motivating Mindset To create a positive leaning environment various initiatives are undertaken: • A plethora of guest lectures by industry experts and Padma awardees • National and International Industrial visits to Germany, Singapore, Malaysia and South Korea • Participation in indoor and outdoor sports, and in recreational and indoor gaming facility "Den" • TEDxVIT motivational talks • Participation in NSS sensitizes students on social issues • Final Year projects that use technology to benefit society (Smart Farming, Landslide Detection, etc) Performance of the Institute Placements Various prestigious companies have absorbed many VIT students over the years. • VIT won the National Employability Awards 2017 for being among the top 10 Colleges in Maharashtra. • VIT bagged the Distinguished College Award in January 2017. • VIT's MMS Department was ranked amongst the top 15 B-Schools in Mumbai (and in the Top 150 across India) - survey conducted by the Times of India. • MNCs such as Works Applications, Amazon Web Services, Oracle, Barclays, iGate, and Capgemini, TCS, Infosys have consistently recruited VIT students. • Our college has been a forerunner in placement of students in top companies. Average placement has generally been successful for most of the students. The maximum package of the students during such placement exercises has been comparable in the industry. Higher Studies •

Many VIT graduates opt for higher studies/post-graduation in institutions like Cornell, Princeton, Carnegie Mellon, Toledo, etc. Entrepreneurship • VIT students have excelled in the National Level Entrepreneurship competition organized by E-Cell, IITB. • VIT MMS students

Provide the weblink of the institution
http://www.vit.edu.in/images/downloads/naac-uploads/Institutional-Distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

The Institute proposes to initiate the preparation of Institute level strategic plan for the period 2020-25. The institute proposes to have Innovation Lounge(A high tech center for students to work on Innovative Projects) VIT plans to develop Tracks for various UG/PG Programmes considering the placement scenario and demand for Technology based on certain Skills in Emerging areas. VIT also felt the need to develop a robust higher education system that ensures quality, its measurement and implementation. This urged for strategic road map that seeks to leverage the strengths that can deal with the changes taking place in this dynamic teaching-learning environment. To take action on the analysis of the students satisfaction survey and stakeholders' feedback VIT proposes to strengthen industry oriented value-added / certificate courses in domains like Blockchain, IoT, Oracle, DB and SQL, Cyber Security, Data Analytics, R programming for Data Science, Telecom Regulations etc. This will also provide ample opportunities to students to improve and scale up their knowledge of respective specialised domains of Technology and Management. In order to strengthen the research culture, Institute Plans to start research center (Ph.D.programme) of University of Mumbai in Electronics and Telecommunication Engineering and Master of Management Studies. Institute is planning to apply to National Board of Accreditation for Extension of Accreditation for accreditation of UG programmes in Electronics Engineering, Electronics Tele-communication Engineering and Biomedical Engineering and also apply for Accreditation for UG programmes in Information Technology, Computer Engineering. The institute plans to apply to UGC for inclusion of the Institute under 2(f) and 12(B).