

Strategic Plan 2015-2020

Strategic Intent

Vidyalankar Institute of Technology will be recognised as one of the top twenty technology institute in the Maharashtra known for its excellence in ICT enabled teaching-learning processes and beyond syllabus activities in next five years.

About Vidyalankar Institute of Technology

Vidyalankar Institute of Technology (VIT) was established in the year 1999, a self-financed Engineering and Management institute managed by Vidyalankar Dnyanapeeth Trust (VDT). VDT is a Charitable Trust established in the year 1998 under the Bombay Public Trust Act, 1950. [Reg. No. : E-17850(Mumbai).] for imparting multidisciplinary quality technical education. VIT is approved by All India Council of Technical Education (AICTE), the Directorate of Technical Education (DTE), Maharashtra state and affiliated to the University of Mumbai.

VIT is managed by VDT which has constituted the governing body as per the guideline stipulated by AICTE which is the apex body. The Governing Board ensures that all statutory regulations are met with, in addition to managing and administering the functioning of the organization in providing qualitative education. Each and every member of the Trust has an inherent passion for acquisition and dissemination of knowledge. Their experience, ideas and skills are pooled in together for the continual progress of Vidyalankar. VIT currently offers courses leading to Bachelor of Engineering in Electronics and Tele-communication Engineering, Computer Engineering, Electronics Engineering, Information Technology and Bio-Medical Engineering. The Institute also offers a post graduate course in Management Studies. This Institute has been awarded an grade "A" by the Government of Maharashtra.

The central location of the Institute in the heart of Mumbai, along with its state of the art infrastructure attract students of high academic capability. VIT gets a unique advantage of being technical institution imparting engineering and management education. It nurtures management professionals who have an understanding and application of technology. VIT believes in facilitating a holistic environment to enable students to reach their optimum potential. A variety of co-curricular and extra-curricular activities and a plethora of opportunities are offered to enrich one's personality. It creates a high quality educational ambience which is conducive to the inspired learning.

Vision, Mission and Values

Vision: “To be a globally recognised institute where learners are nurtured in a scholarly environment to evolve into competent professionals and researchers to benefit society”.

Mission statements:

- Evolve a curriculum which emphasises on **strong fundamentals** with the flexibility to choose advanced courses of interest and gain exposure to tools and techniques in contemporary subjects.
- Encourage a **teaching-learning process** in which highly competent faculty share a **sybiotic association** with institutes of repute.
- Facilitate creation and dissemination of knowledge through a **digitally-enabled** learning environment.
- Develop **academic and infrastructural facilities** with modern equipment and other learning resources and encourage reciprocal sharing with other institutes through networking.
- Establish a Centre of Excellence to enhance **academia-industry partnership** and work on collaborative projects.

Core Values:

Vidyalankar believes that character-building is an essential step towards nation-building. Nurturing young minds is a vital responsibility. Vidyalankar Values are the set of ideas which guide the attitudes and behaviour of the members of the Vidyalankar family. The Vidyalankar Value system indeed serves as a beacon to guide students. Educating students on ethics, to differentiate between right and wrong and motivating them to choose the right path is imperative. The following values are interspersed in all aspects of the teaching-learning process:

- **Honesty:**
Being true to oneself and others; being trustworthy and straightforward in all our professional and personal dealings. To walk on the path of honesty and fairness, irrespective of the consequences that may ensue.
- **Integrity:**
Unwaveringly adhering to moral and ethical principles and upholding righteous behaviour. Developing strength of character, which is absolutely incorruptible at any point in the teaching-learning process and in one’s academic and professional life.
- **Excellence:**
Setting high standards and quality benchmarks for one self and endeavouring to reach them. Doing the very best one can in every task that one accomplishes. Aiming for personal, academic and professional excellence and never compromising with mediocrity.

- **Responsibility:**
Being aware of and shouldering one's responsibilities towards self, institute, home and society. Acquire the inner belief to fulfil one's responsibilities to the best of one's abilities. Being accountable for one's actions; practising what one preaches and leading by example.
- **Commitment:**
Complete dedication and thorough engagement towards work. Inculcating loyalty and developing a sense of ownership. To be sincere in approach, adhere to deadlines and have a result-oriented approach.
- **Salubrious Attitude:**
Nurturing and promoting a feeling of well-being and a healthy and wholesome academic and professional environment. An attitude that is favourable to develop a healthy body, mind and character.

Institute Steering Committee

Director, VDT

Principal, VIT

Vice Principal, VIT

Chief Academic Officer, VIT

Technical Advisor, VIT

Head of the Department, Information Technology

Head of the Department, Computer Engineering

Head of the Department, Electronics Engineering

Head of the Department, Electronics and Telecommunications Engineering

Head of the Department, Biomedical Engineering

Head of the Department, Masters in Management Studies

Head of the Department, First Year Engineering

Administrative Staff Representative

Preamble

VIT has achieved the present position due to the potent foundation created through the valued contributions of the management, faculty, staff, students and alumni. The established policies and procedures in the institute ensure the integrity and effectiveness of the governance and administration. This foundation provides a perspective to be one of the most seek institutes by aspirants of engineering and management education in Maharashtra.

To accomplish this ardent goal requires: -

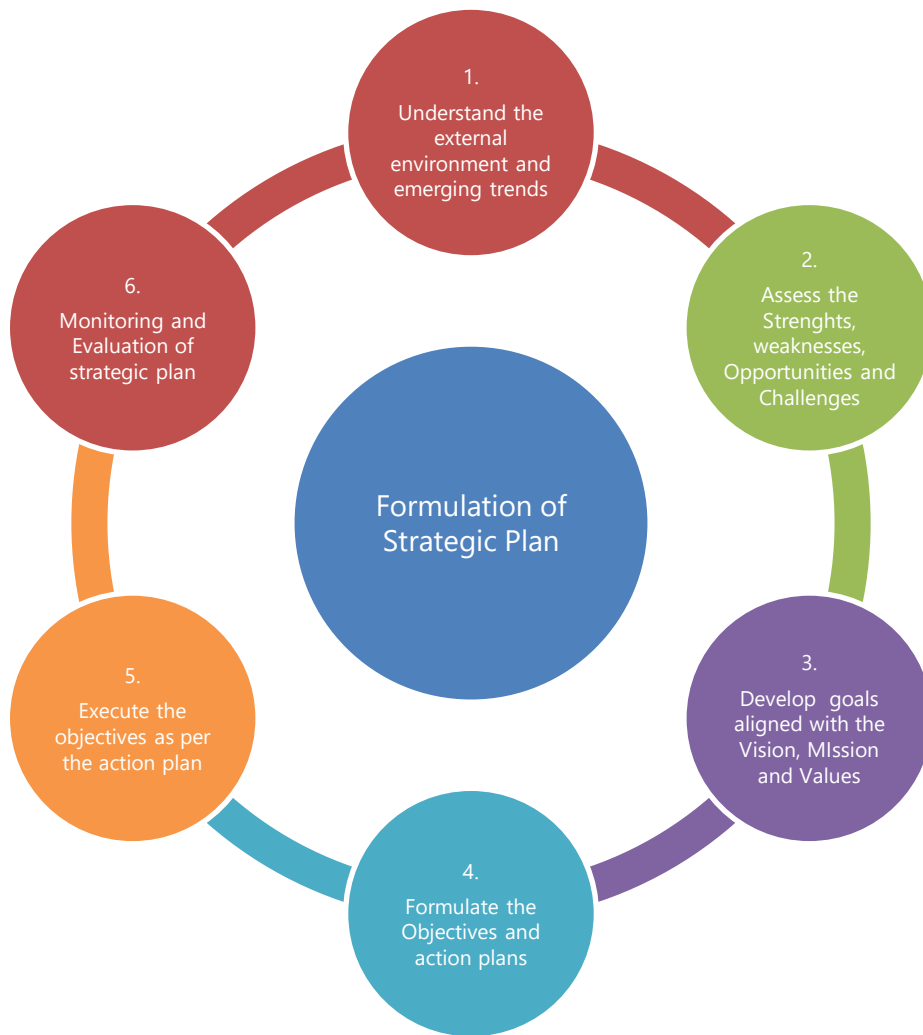
- a) Formulating a strategic plan i.e. consistent with Institute's Vision, Mission and Goals;
- b) Strong support from the management, faculty, staff, students and other key stakeholders;
- c) Responsive to the key competitive forces in the environment and
- d) Provided powerful framework capable of guiding strategic decisions and action plans to constantly innovate and improve all aspects of institute's activities

Need of Strategic Plan:

During past decade engineering and management education has undergone immense changes. While the demand for excellent quality education has increased steadily, the number of technical institutes has also dramatically increased. This has resulted in an intense competition for high calibre students and faculty. It is essential in this dynamic environment to determine the strategic objectives and quantifiable targets, measuring the performances of the predetermined indicators and monitoring & evaluating the strategic plan. It is a participative approach which enables the institute to prioritise the resources in accordance with the objectives mentioned in the strategic plan.

Strategic Planning Process:

Strategic planning process was conceived as an IQAC initiative. During the IQAC meeting (Dec 2014) the steering committee for strategic plan, consisting of Director, Principal, Vice Principal, CAO, Technical Advisor, the department heads and all other stakeholders was constituted. The plan is aligned with the institute’s vision, mission and goals and capable of guiding strategic decisions and action plans. The entire process is depicted in the diagram below:



Technical Education in India

With reference to the paper titled "Technical education in India: challenges and prospects ", technical education impacts the overall education system and plays a significant role in the social and economic development of the nation. The system of Technical Education in India offers opportunities for education and training in a wide variety of trades and disciplines at certificate, diploma, degree, postgraduate degree and doctoral levels. Engineering, technology and management programmes are covered in technical education.

As per the statistics posed by department of Higher Education, Govt. of India, around 18,000 institutions are functioning in the country with approximately five lakh teachers employed under various streams. The overall scenario of technical education in India does not correspond to the global standards that leads to the increased and tightened assessment of the quality of the technical education institutions in the country. There is an enormous increase in the number of engineering institutions between 1995 to 2005. This increase is at the rate of 298.66% while the compound annual growth rate of institutions during last sixty year is 6.7% excluding the IIT's and NIT's. The sanctioned intake has increased from 2940 in the year 1947 to 7.8 lakhs in 2008 to 11 lakhs in 2012. The state of Maharashtra has seen the mammoth growth of technical institutes from 1980 to 2012 at the rate of 1407%.

This massive growth invited some serious concerns regarding the quality as well as efficiency. The quality of faculty, students getting admitted, adequate infrastructure and an appropriate teaching learning environment are the issues to name a few. NASSCOM has reported in its recent studies that hardly 26% of the present-day graduates are employable and the rest must make up the deficiencies through rigorous trainings. This requires developing a robust higher education system that ensures quality, its measurement and implementation.

Having this in backdrop VIT felt the need to usher in high – quality technical education. This urged for the strategic road map that seeks to leverage the strengths that can deal with the changes taking place in this dynamic environment. To ensure quality, the IQAC cell & the members of the steering committee have developed the strategic plan that focuses on the time-bound goals set for academic, administrative, research & development activities. The strategic plan aims at bracing the work environment that fosters a culture of excellence, learner centric teaching learning process and research.

SWOC

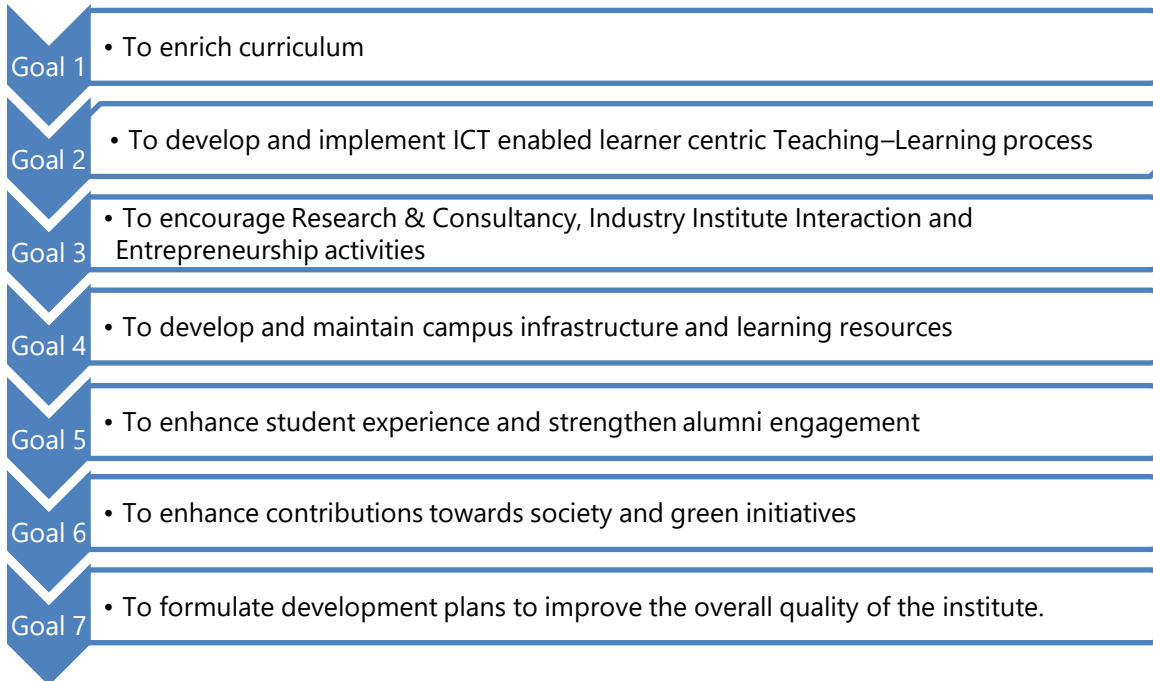
<p>Strengths:</p> <ul style="list-style-type: none"> • Effective leadership of the members of the trust with passion towards working for excellence in education • Conducive environment and state of Art Infrastructure • Learner centric & ICT enabled Teaching–Learning process, to meet the needs of the millennial • In house e-Governance system • Academic Audit and Beyond Syllabus Activities 	<p>Weaknesses:</p> <ul style="list-style-type: none"> • International engagement in terms of student and faculty exchange programs • Less percentage of faculty involved in research and consultancy activities • Faculty up gradation to keep in pace with changing technologies and pedagogical innovations
<p>Opportunities:</p> <ul style="list-style-type: none"> • International collaborations • Expansion of need based Educational and Research programs • Enhancing contributions to green initiatives for sustainable development of society • Academic Autonomy 	<p>Challenges:</p> <ul style="list-style-type: none"> • Changing admission scenario in engineering and technology due to wide availability of other professional programmes • Unpredictable placement opportunities • Availability of competent Ph.D. faculty

Strategy Implementation and Monitoring

Good Governance & Administration	Governing Body, Internal Quality Assurance Committee, Local Managing Committee, Principal, Vice-Principal, Technical Advisor, Chief Academic Officer, Head of the Departments and Registrar
Institution Statutory Compliance	Principal, Vice-Principal and Registrar
University Status	Principal, Vice-Principal and Registrar
Financial Management	Finance Committee, Principal and Vice-Principal
Infrastructure	Building Committee, Principal and Vice Principal
Human Resource	Principal, Vice-Principal, Technical Advisor, Chief Academic Officer, Head of the Departments
Teaching- Learning and Evaluation	Principal, Chief Academic Officer, Head of the Departments, Faculty and Staff, Research & Development Convener & PG Coordinator, Exam In-charge
Departmental Activities	Head of the Departments
Branding /Expansion	Vice- Principal, Head Marketing
Student Admissions	Principal, Vice-Principal, Admission In charge
Training and Placement	Vice-Principal, Training & Placement Officer
Student Council	Vice-Principal, Student Council Convener and Student Council

Strategic Goals

VIT's steering committee arrived at the following strategic goals after brain storming discussion over Vision, Mission, Quality Policy, Core Values, SWOC analysis. Strategic Plan outlines steps to improve the quality and quantity of research, holistic development of students, faculty strength, infrastructure and engagement with industry



Strategic Plan 2015-2020

Goal 1. To enrich curriculum

To sustain in the current competitive environment, it is immensely important to impart high-quality education. Thus, it is essential to bring the rigor in the academic processes. The first step towards the same is to strengthen the planning of the academic and administrative activities throughout the academic year.

1.1 Cluster Mentor and Department Advisory board

The institute aims at creating specialised clusters in the technical domain to ensure curriculum enrichment by identifying gaps and accordingly, designing various beyond syllabus activities for strengthening the Academic Administration Plan (AAP).

1.2 Development of Course Objective and Course Outcomes

To make the teaching learning process more effective it is essential to define the course objectives and specific course outcomes for undergraduate and post graduate programmes courses. Thus, all courses are designed with a view of Outcome Based Learning (OBE).

1.3 Preparation of the Academic-Activity Calendar, a planning document for students, faculty, Staff and departments for each semester

1.4 To enhance the Curriculum Delivery through Beyond Syllabus Activities:

- a. Industrial Visits
- b. Guest lectures
- c. Internships
- d. Industry Projects
- e. Problem Based Learning

1.5 To offer industry-oriented certification courses

- MOOCs
- Value Added Courses

1.6 Result Improvement

Analysing student results to design teaching methods to address the student needs to improve their performance in end term exam.

1.7 Academic Audit

The institute shall conduct the academic audit to ensure effective execution of academic planning.

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
1.1	Cluster Mentor group formation	Formation of Clusters	Introduction of Academic Cluster Mentors	Introduction of Industry and Academic Mentors	√	√
	Department Advisory Board	To be constituted for each department	Implementation on the inputs received from various stake holders	Implementation on the inputs received from various stake holders	Reconstitution	Implementation on the inputs received from various stake holders

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
1.2	Development of Course Objectives and Course outcomes to foster Outcome Based Learning	Formation of Course Objectives, Course Outcomes, Program Outcomes	Formation of Course Objectives, Course Outcomes, Program Outcomes	Formation of Course Objectives, Course Outcomes, Program Outcomes, Program Specific Objectives	Revisiting the same	-
1.3	Academic/ Activity Calendar	Preparation of VIT's Consolidated Calendar	Preparation of VIT's Consolidated Calendar	Inclusion of Calendar on ERP- vMIS	-	Addition of functionality for various Report Generation through ERP
	AAP	Revision 1	Revision 2	Revision 3	Revision 4	Revision 5
1.4	No. of Field Trips and Industrial Visits to be conducted	5	7	10	15	20
	No. of Internships to be provided to students	200	225	250	275	300
	No. of courses to be offered addressing human values & professional ethics	5	7	9	11	13
	Foreign languages (French/German)	√	√	√	√	√
1.5	MOOC	3	5	6	8	10
	No. of value added courses to be floated	10	10	11	11	12
	Total No. of Guest Lectures to be conducted	15	20	25	30	35
	Total No. Certification/ Diploma courses to be introduced	10	12	14	16	18
1.6	Mission 100 &	Implementation	Implementation	Conduction of		

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
	Progression(Vacation) Batch	of Strategy of Mission 100 to improve results of Applied Mathematics	of Mission 100 to improve results of subjects having result less than 85%	Progression batch/Vacation batch for caustic subjects	√	√
	Remedial Session	Remedial sessions for students having academic year gap	Remedial sessions for year gap, KT students and slow learners	Remedial sessions for year gap, KT students and slow learners	Remedial sessions for year gap, KT students and slow learners	Remedial sessions for year gap, KT students and slow learners
	Prelims for 1 st year and 2 nd year students	√	√	√	√	√
1.7	Academic Audit					
	Preview	Revision 1	Revision 2	Revision 3	Revision 4	Revision 5
	Review	Revision 1	Revision 2	Revision 3	Revision 4	Revision 5
	Course Diary	Revision 1	Revision 2	Revision 3	Revision 4	Revision 5
	Staff Diary	Revision 1	Revision 2	Revision 3	Revision 4	Revision 5
	IA Audit	Revision 1	Revision 2	Revision 3	Revision 4	Revision 5

Goal 2: To develop and implement ICT enabled learner centric Teaching–Learning process

Institute has well planned teaching learning process and has robust methodology for rolling out the process. The institute believes in quality teaching. Content delivery and dissemination methods are continuously updated to make teaching learning more prolific.

2.1 To develop innovative teaching, learning and assessment methods

- Use of ICT for effective teaching with E-Learning resources
- Content delivery shall be improved from traditional teaching methods to digital lecture management through promoting Information & Communication Technologies (ICT) methods. Lecture capture is an umbrella that allows instructors to record what is taught in classrooms and make it available digitally.
- vRefer: The centralised system to disseminate the digital content to students in the form of class notes, ppts ,e-books and other relevant study material

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
2.1	Using ICT for effective teaching with E-Learning resources	Digital Content Development and E Repository	Digital Content Development and E Repository	Digital Content Development and E Repository	Digital Content Development and E Repository	Digital Content Development and E Repository
	Lecture Capture	First Year Courses	Second Year Courses	Third Year Courses	Final Year Courses	For PG Courses
	VRefer- Archival of data for all course	√	√	√	√	√

Goal 3: To encourage Research & Consultancy, Industry Institute Interaction and Entrepreneurship activities

The Industry Institute Interactions make the teaching and research more relevant. The institute aims to create collaborations with industry in terms of consultancy, sponsored research projects, technology transfer etc.

Following actions/ activities shall be planned by the institute to encourage Research & Consultancy, Industry Institute Interaction and Entrepreneurship activities

3.1 To strengthen research activities in the institute

- Organizing research conference and research symposium every alternate year
- Sponsorship to faculty to encourage participation in research activities on and off campus
- Developing the sponsored research through minor research proposals
- Monday R& D activity of Paper Review, Book Review and Tech Review to practice the culture of research within institute

3.2 To establish the environment for encouragement of the entrepreneurial skills

- E Cell Activities

3.3 Establish productive partnership between industry/ reputed organizations/ academic institutes for consultancy and internships

- To develop the short term courses/ value added courses in association with senior industry personnel
- To enhance the interface with industry and institutes of repute – Industry Mentor and Academic Mentor

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
3.1	No. of research papers published in Journal	50	60	70	80	90
	No. of research papers published in Conference	60	70	75	80	90
	No. of funded Research projects	3	5	7	9	11
3.2	E cell activities	10	10	12	15	17
3.3	No. of Seminars/Workshops conducted to encourage Industry Academia Interaction	95	95	100	100	105
	No. of MoUs signed to establish industry institute linkages with reputed industries and organization to undertake joint research projects, training and internships.	3	5	7	9	11

Goal 4: To develop and maintain campus infrastructure and learning resources

The development of infrastructure is among the priorities of the institute.

4.1 To Develop infrastructural facilities for undergraduate and post graduate education

- Extended block in existing building for undergraduate courses and post graduate management Course.
- Maintain the existing infrastructure meeting the standards of safety and cleanliness

4.2 Laboratory Development

Development of laboratories is a high priority for the Institute as it provides hands on training to students and it is always ensured that all the laboratories are adequately equipped.

- Expansion and Modernization of labs
- Virtual labs

4.3 Library Development

The Institute library has an organized collection of technical and management books, journals and e-journals. Continuous efforts are made to add resources to strengthen this facility.

- To ensure the availability of adequate number of titles of books and journals in the Library
- Considering current trends providing online research databases for undergraduate and post graduate courses
- Facilities like Wi-Fi in the library, desktops and Akash tablets for surfing the internet
- Enhance the facilities in the library reading room

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
4.1	No. of student facilities on campus - Multi Purpose Sports Court - Yoga Centre	Multi-Purpose Ground	Canteen Renovation	S Block, Yoga Centre	-	-
4.2	IIT Virtual Lab on campus	√	√	√	√	√
	Language Lab	New Software to be Purchased	√	√	√	√
4.3	Library Resources - Newspapers, - Technical Handbooks - Dictionaries - Non Technical Books - Magazines - CDs and DVDs	√	√	√	√	√

Goal 5: To enhance student experience and strengthen alumni engagement

To enhance the experience of students on campus the holistic development of students is essential. To facilitate the same institute shall encourage the co-curricular and extra-curricular activities on campus. Alumni is one of the key stakeholders of the institute. The feedback received from the alumni is vital for the progression and growth of the institute. Institute has Alumni committee in place to manage alumni interactions.

Following actions/ activities shall be planned by the institute to enhance student experience and strengthen alumni engagement:

5.1 Ensure value addition through quality teaching and learning

5.2 Enhance facilities for recreation, food courts and sports on campus

5.3 Participation of students in various competitions organized at Institute, State or National level

5.4 To improve the number of students placed

5.5 To ensure the expeditious and automated student interactions with administration

- vMIS, an in house ERP system

5.6 Professional Counseling and emergency medical service to the students on campus

5.7 Promoting alumni networking with students

-Get inputs from Alumni on planning the co-curricular activities to mitigate the gap between industry and academic

-Inviting alumni for the Guest Lectures, conducting workshops, judges for competitions, viva panelists etc.

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
5.1	No. of students enroll for Certification/Diploma courses	30% of the students	35% of the students	40% of the students	45% of the students	50% of the students
5.2	Enhance facilities on campus - Recreation - Food court - Landscaping - Merchandised Stores	Landscaping of ground	-	-	Merchandised Stores (Crosswords, Oxford, Archie's etc.)	-
5.3	No. of student participation in various competitions organized at National, State or Institute level	50	60	70	80	90
5.4	% of students placed	50%	55%	60%	65%	70%
5.5	Up gradation of vMIS	Student enrollment, Examination details, Lecture, Time table	Payment Details, Application for Exam Revaluation & Photocopy	Transcripts, Committee Activities, Application for railway concession, Bonafide certificate	Up gradation of ERP with Academic Modules	Up gradation of ERP to generate various reports, lists

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
5.6	Counseling and emergency medical service to the students on campus - Counselor on campus - Cardiac Ambulance - Doctor on call - Sick Room on Campus	√	√	√	√	√
5.7	Promote alumni networking with students	Guest Lectures, Workshops, Project Viva	Guest Lectures, Workshops, Project Viva	Technical Training	Support for Internships and Placements	-
	Alumni Association	Formation	Registration	Local Chapters	-	-

Goal 6: To enhance contributions towards social responsibilities and green initiatives

VIT engages its faculty and students with the various societal activities to effectively execute its stated mission. The institute expects that such engagements are required to build the perspective and to create the awareness among faculty and students about the needs and issues of the society.

To increase such involvement of faculty and students following actions / activities shall be planned:

6.1 To encourage students to opt for the elective courses that address gender bias, environment and sustainability issues

6.2 To encourage students and the faculty to take up the projects relevant to society to provide solutions

6.3 To involve students in green campus initiatives & waste management.

6.4 To plan various social initiatives contributing towards local community

6.5 Measures to improve waste disposal and e-waste collection

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
6.1	No. of courses offered that address gender bias, environment and sustainability issues	1	2	3	4	5
6.2	No. Projects relevant to society to provide solutions	1	3	5	7	9
6.3	No. of activities undertaken in Green Campus initiative & waste management.	1	2	3	4	5
6.4	No. of social initiatives to contribute towards local community.	1	2	3	4	5
	No. activities to be conducted on campus to promote human values, national values	2	2	3	4	5

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
6.5	No. of initiatives to be taken to improve waste disposal and to create awareness about e-waste & its collection.	1	2	3	4	5

Goal 7. To formulate development plans to improve the overall quality of the institute

No.	Strategic Objectives	2015-16	2016-17	2017-18	2018-19	2019-20
7.1	IQAC	√	√	√	√	√
7.2	Add / Update the organizational standard operating processes	√	√	√	√	√
7.3	Accreditation	NBA-UG	NAAC	NBA-MMS	-	-
7.4	Participation of staff in training programmes	√	√	√	√	√
7.5	Organisation of STTPs/FDPs/training within Institute	√	√	√	√	√
7.6	Performance Appraisal	√	Revision in PA Form	√	√	√