6.2.1. The institutional Strategic/ perspective plan is effectively employed

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6.2.1. The institutional Strategic/ perspective plan is effectively employed

Sr. No	Details
1.	Perspective Plan for A.Y 2015-19
2.	Deployment Plan for A.Y 2015-19
3.	Perspective Plan for A.Y 2019-24
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Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai - 400 050.

Perspective Plan for A.Y 2015-19

Dr. G. T. Thampi
PRINCIPAL
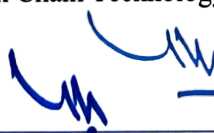Thadomal Shahani Engineering College
Bandra (W), Mumbai - 400 050.

THADOMAL SHAHANI ENGINEERING COLLEGE

5 Year Perspective Plan for Academic Year 2015 -2019

In its pursuit of academic excellence, **Thadomal Shahani Engineering College (TSEC)** aligns recommendations and resources in a way that best addresses the needs and interests of all stakeholders. After accomplishing the majority of the objectives, a number of additional strategic plans for the period 2015-2019 are being developed as we strive for the next level of excellence.

Following are **the Perspective Plans of the Thadomal Shahani Engineering College**.

- Creating capacity to carry out and promote academic research. To create an academic ambience which thrive on an institutional ambience where we place research activities at the pedestal.

- Encouraging culture of patenting and help pupil and the stake holders develop respect for intellectual property rights.

- Breaking away from FMCG sponsored extracurricular activities which is placing "The Market" in high pedestal and subverting serious academic processes.

- Developing an academic ambience where pupils thrive on developing experiential learning and coding as their core competencies. Everyday discourse in the campus shall be revolving around the process of wealth/ value creation and productive competency building process and procedures amongst students.

- Highlight the productive nature of collaborative efforts and collaborative projects leveraging technology solutions like GitHub to develop the culture for collaborative endeavors for channelizing creative abilities.

- Engineer processes to radically transform current teaching learning paradigm underpinning the construct and concept of outcome based education.

- Nudge the pupils to undertake entrepreneurship energized by the prevailing startup culture in the city especially in and around IIT Bombay campus.

- Trained teaching faculty to undertake competency development process in the realm of Artificial Intelligence and Block Chain Technology.

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Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai

- Develop infrastructure for facilitating flipped classroom and blended learning to be a new way of improving the efficacy of teaching learning process essentially to reduce expenditure on tuition fees of learners.

- Enhancing the physical infrastructure by strengthening campus network facilities and setting up smart classrooms by building Wi-Fi enabled super structure

- The institute is aspiring for accreditation by NBA and NAAC accreditation to get a seal of approval from these agencies certifying our quality procedures and systems in place.

- All efforts shall be channelized to get NIRF ranking by competent authorities by organizing documents and data pertaining to our achievements and productive and agile processes in place.

- Accelerated development of social outreach program to help learner build understanding of bottom of pyramid consumption and factor affecting social equity.

Implementation and Monitoring

The strategic plans are implemented through action plans with key measurable of success. The progress shall be measured by IQAC, from time to time through stringent evaluation standards to sustain quality. Any deviations to be handled with timely corrections. The Head of the institution along with the leadership team is the custodian for implementation and its success.

Conclusion

The development of strategic plans is the outcome of the commitment of the Management, the Head of the institution, leadership team, faculty and collective input from all the stakeholders. Implementation of the strategic plans with progressive success holds the key aspect and speaks the quality of the institution. The management, dedicated leadership team of the institution along with faculty is committed to implement the strategic plans effectively with the involvement of stakeholders to move in the right direction of growth in the next decade.

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai - 400 050.

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ADVOCATE NARI GURSAHANI MARG, 37TH ROAD, (OFF LINKING ROAD), TPS III, BANDRA (WEST), MUMBAI - 400 050, INDIA.
Office : 9967255590 • Examination : 9967628590 • Fax : 91 - 22-26053590 • E-mail : gtthampi@yahoo.com • Website : www.tsec.edu

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Deployment Plan for A.Y 2015-19

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai - 400 050.

Deployment of the 5 Year Perspective Plan for Academic Year 2015 - 2019

The commitment of the able leadership team along with the inputs from stakeholders and strong support from the management has enabled the institute to accomplish most of the set goals and achieve incredible milestones as presented below.

- Institute has taken a conscious decision to discontinue multiple student celebration through various societies to curb the culture of excessive consumption and spending.

- Senior faculty invariably lectures about virtues of developing the competency in coding through various platform and languages repeatedly. They also exhorted all the aspiring students to participate in coding competition, project competition. Everyday discourse also revolved around wealth creation/ value creation as an essential outcome of professional college education training.

- We exhort students to appreciate collaborative endeavors which are acting as force multiplier to build efficiencies and we succeeded in impressing the pupils to develop the culture of collaboration and team work.

- We highlight the importance of outcome based education embodying learner centric process design and promote learning paradigm wherein student is advised to cultivate self-learning abilities and develop a temperament for getting into unfamiliar domains.

- Startup culture has been promoted to impress upon the students to undertake entrepreneurial activities to support current level of economy activities in the country.

- We are instrumental in building the possibility of startup and innovation cells that is getting penetrated amongst large number of students.

- Well in advance we could phantom the possibilities of technology market place vying for graduates with competencies in building intelligence to systems. So we started initiating our teaching faculty to multiple courses of Artificial Intelligence, Machine Learning and Data Analytics.

Dr. G. T. Thampi
PRINCIPAL,
Thadomal Shahani Engineering College
Bandra (W), Mumbai - 400 050.

Perspective Plan for A.Y 2019-24

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai - 400 050.

THADOMAL SHAHANI ENGINEERING COLLEGE

5 Year Perspective Plan for Academic Year 2019-2024

We at **Thadomal Shahani Engineering College (TSEC)**, after attaining the objectives, its vison for the period 2015-2019 and to address the requirements of the society/ stakeholders and industry by enlarge have developed additional strategic plans for the period 2019- 2024 to achieve a next level of excellence.

- Facilitating students and staff to expose to MOOCs to develop competency in emerging areas. We shall incentivise all involved in undertaking courses in MOOC platform. We will take initiative to contribute to the cause of Electronic manufacturing by modifying the instructional content and impressing upon pupils to siege the opportunity by acting as a catalyst in offering cost and quality arbitrage to investments happening in electronic manufacturing centre. We shall replicate the same for other sectors like biomedical , bio technology and chemical.

- Developing laboratories and studios to create digital contents in emerging areas in the realm of Artificial Intelligence, Machine Learning, Deep Learning, Big Data Analytics in alignment with Cloud Computing platforms and Block Chain technologies.

- Collaborating with universities from other geographies essentially for transfer of "New knowledge" and exposing them to our domestic market for educational training. We may use this activity to understand the cultures and markets of other geographies.

- Efforts shall be made to influence various stakeholders including Government regulation and MHRD to create policy framework where private capital can be leveraged to transcend educational process to help the country evolve as a total solution provider.

- Building supply chain of human capital in collaboration with other cluster universities to cater to the need of various enterprises.

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai - 400 050.

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College

THADOMAL SHAHANI ENGINEERING COLLEGE

- We also collaborated with a lead institution like Benetton University, Noida to make Artificial Intelligence pervasive and ubiquitous amongst both teachers and students.

- We also organized funded training programs to develop competencies in Block Chain technologies.

- We created digital infrastructure well in advance before the advent of pandemic and promoted Massive Open Online Course (MOOCS) online resources and collaborated with Coursera kind of educational enterprises. And align with AICTE for Swayam and NPTEL courses. We encouraged blended teaching learning and flipped classrooms.

- Promote and penetrate the culture of Academic research amongst faculty and students to sustain the current level of economic growth in the country.

- We created a capacity of 40 seats to admit 40 research scholars in the realm of multidisciplinary areas covering Computer Engineering, Information Technology, Electronics and Telecommunication, Health Care, Agriculture, E- Commerce, E – Governance, Oil and Natural Gas, Automotive Engineering.

- We are creating laboratories and computing facilities approximating smart classrooms/ laboratory. We succeeded in creating Wi-Fi enabled campus with Wi-Fi and hotspot facilities in addition to wired connection to all laboratories.

- All the Engineering Departments namely Computer Engineering, Information Technology, Electronics & Telecommunication Engineering, Biomedical Engineering were reaccredited by the National Board of Accreditation (NBA) in 2019 and also we succeeded in accreditation of Chemical Engineering Department for the next three years

- Increase the enrollment of NSS and push the envelope of social outreach program by adopting a village in the neighborhood of our Mumbai metropolitan city.

- During the review period of 2016-2019, the institute got research funding from University of Mumbai through multiple research proposals by various coordinators from different Departments. We also got a grant for Modernization of Machine Learning Laboratory worth 11 lakhs from AICTE.

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai- 400 050.

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College

Deployment Plan for A.Y 2019-24

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai - 400 050.

Deployment of the 5 Year Perspective Plan for Academic Year 2019 – 2024

- We collaborate with Coursera which offered 5000 licenses for that many number of certificate courses in emerging technology areas.

- We also promoted NPTEL courses and courses offered by Swayam amongst students and teachers and many of them successfully completed various courses.

- We are in the process of creating robust Information Technology backbone (Infrastructure) for carrying out teaching and learning online to facilitate regular course work lectures and practical's deploying various technological platforms.

- We succeeded in creating an innate capacity of 120 students in the branch of Artificial Intelligence and Data Science and created laboratory facility with matching hardware and software solutions.

- We are in the process of formulating messages to be sent to various Universities to be a part of our collaborative endeavors to create new knowledge to further the cause of humanities and also to our advantage to understand other markets and cultures in order to design process and procedures to align with these cultures and market dynamics.

- We shall organize seminars, discussions and proposals to sensitize and nudge various stakeholders to contribute to the cause of the country to evolve as a total solution provider and to have a sizable market share.

- An extensive survey shall be undertaken to figure out competencies expected from graduates of professional colleges by various enterprises inclusive of manufacturing, services and public sector enterprises.

We are confident of translating these vision and procedures laid out shall bring fruits of realization and achievement contributing to society at large to emerge as a dynamic, demand-driven, quality conscious and efficient institution.

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai - 400 050.

Dr. G. T. Thampi
PRINCIPAL
Thadomal Shahani Engineering College
Bandra (W), Mumbai 400 050.

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