

# **IFET COLLEGE OF ENGINEERING**

**(An Autonomous Institution)**

**Villupuram-605108**

## **Strategic Plan (2019-2024)**



**July 2019**

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## **i. PREFACE**

IFET College of Engineering founded in 1998 by eminent Industrialists and some benign NRIs, Indo French Educational Trust (IFET) is committed to promote education and research in the field of Engineering and Technology and to collate and disseminate in such fields with effective ideas, methods and techniques. The Trust has dedicated itself in educating and helping the rural youth in acquiring an understanding of Technology and its importance and value in day-to-day life as its vision. The trust has taken definite strides in achieving its vision under the able and active management of Mr.K.V. Raja-Chairman, Mr.K. Shivram Alva- Secretary and Mr. R. Vimal-Treasurer. The Trustees are personalities of high profile with rich and varied experience. IFET College of Engineering is a dream-come-true of the prescient and shrewd trustees. The Institution has gradually matured in all dimensions to establish a high standard of competence and excellence in engineering and technology

IFET College of Engineering (IFETCE) has systematically emerged in last twenty-two years as a hub for-quality education through its teaching-learning processes, competent faculty members, state-of-the-art infrastructure and committed efforts on research & innovation, having a tangible impact on rural societal development. During these years, IFET College of Engineering has become as synonym for ‘Quality Education’. The journey has been quite challenging yet very successful. Meanwhile, IFETCE has developed its Strategic Plan for the duration of 2019-24.

We are very happy to put forward this Strategic Plan of IFET College of Engineering for the period of 2019-24. It precisely articulates our aspirations to emerge as a highly respected multidisciplinary and student-centric engineering institution.

We believe, with the support and dedicated efforts of all the stakeholders, in the next five years, IFETCE will achieve a greater level of excellence and distinction in the higher education arena at national and global level.

## **ii. Overview of Strategic Plan (2019-2024) of Institution**

The strategic plan 2019-2024 aims to move the institution another step ahead in the direction of our vision.

The strategic plan 2019-2024 of IFETCE includes,

- Modern, flexible and interdisciplinary curriculum.
- Internationalization.
- Central library as modern information resource centre.
- Introduction of new programmes.
- High faculty-student ratio.

- Enhancing employability and entrepreneurship.
- Diversity and inclusivity.
- Research, Innovation and Consultancy Activities.
- Impacting societal outcomes
- Generating alternate sources of revenue
- Centre of excellence

During the plan period (2019-24), IFETCE plans to strengthen all ongoing programs by way of enriching the curriculum, offering a variety of elective courses, modernizing the labs for experiential learning, adding high caliber faculty members and promoting the culture of research and innovation.

# Strategic Plan (2019-2024) of IFETCE

## 1. **Introduction**

### **1.1 General**

Indo-French Educational Trust, (IFET) with Mr.K.V.Raja as the Chairman spearheads the development and day-to-day functionalities of the institution He is supported by our Secretary Mr.K.Shivram Alva and Treasurer Mr.Vimal.

#### **Vision, Mission, and Quality Policy**

##### **Vision**

To Deliver quality education of international standard and produce engineers competent at Regional, National and Global levels

##### **Mission**

Striving to be the best in what we do, persistent and relentless in our pursuit of quality and never being satisfied with the status quo.

##### **Quality Policy**

- To Plan and Implement Innovative Teaching & Learning Process.
- To Provide Quality Education Matching with futuristic trends in Engineering & Technology.
- To Develop the College into a Global Institute of Learning and Research of Academic Excellence.
- To Strive in establishing and effective Quality Management system ensuring Continual improvement.

**Table1.Programmes offered UG, PG**

<b>S.NO.</b>	<b>Programmes Offered</b>	<b>Year of Establishment</b>
<b>Under Graduate Programme</b>		
1	B.E- Civil Engineering	2009
2	B.E-Computer Science and Engineering	2001
3	B.E - Electrical and Electronics Engineering	1998
4	B.E - Electronics and Communication Engineering	1998
5	B.Tech.- Information Technology	2001
6	B.E. – Mechanical Engineering	1998
<b>Post Graduate Programme</b>		
7	M.E - Computer Science and Engineering	2012
8	M.E – Applied Electronics	2012
9	MBA- Master of Business Administration	2009

## **2. Life Cycle of Strategic Plan: 2019-2024**

A strategic plan is an important tool for IFETCE and it ensures the following.

- Framework for effectiveness and sense of direction
- Goals and measurable targets
- Guiding day-to-day actions
- Evaluating progress and changing approaches when moving forward

### **3.Strategic Goals for 2019-2024**

Keeping in mind the current status of the institution and the evolving development in education and the global technological scenario, the following strategic goals have been developed.

Goal-1: Become a medium-sized institution of national repute.

Goal-2: Promote research and innovation.

Goal-3: Develop faculty to meet emerging academic and employability challenges

Goal-4: Provide high quality infrastructure and facilities.

### **4.Strategies, Targets and Implementation Plan**

#### **Goal-1: Become a medium-sized institution of national repute.**

Strategy-1. Introduce new UG programmes in emerging fields like Artificial Intelligence, Data Science, Machine Learning and Cyber security.

Strategy-2. Work towards achieving higher grade in NAAC reaccreditation.

Strategy-3. Achieve significant position in National Institutional Ranking Framework (NIRF), Ministry of HRD, Government of India.

Strategy-4. Get more performance awards and recognitions from reputed organizations.

Strategy-5. Get NBA accreditation for all the eligible programmes.

Strategy- 6. Place our students in well reputed companies with higher salary packages.

Strategy-7. Organize various awareness programs in Entrepreneurship, design thinking and critical thinking to aid in creating startups.

#### **Goal-2: Promote research and innovation**

Strategy-1. Obtain Research centre recognition from Anna University for all the programmes

Strategy-2. Increase industry interaction through MOU's to facilitate student placement, centre of excellence and inclusion of industry sponsored courses in the curriculum

Strategy-3. Increase seed money grants for minor research projects.

Strategy-4. Improve the funding obtained from research projects.

#### **Goal-3: Recruit and develop faculty members to meet the emerging academic and employability challenges**

Strategy-1. Selection of faculty with Ph.D qualification.

Strategy-2. Recruit faculty who have done their post-graduation/doctoral studies from a foreign/ reputed institution.

Strategy-3. Conduct more IEEE Conferences / Seminars/ Workshops/Symposiums/ FDP.

Strategy-4. Encourage faculty members to publish more articles in Peer-reviewed journals with a good impact factor.

**Goal-4: Provide high quality infrastructure and facilities.**

Strategy-1. Equip the central library with a collection of reputed journals.

Strategy-2. Modernize different laboratories in various departments.

Strategy-3. Implement requisite ICT infrastructure.

**STEP-by-STEP IMPLEMENTATION:**

Strategic plan will be implemented at two levels: the department level and the institute level. The goals set shall be implemented by the top leadership of the institution. They will mobilize resources – human and financial– to achieve the goals and will be closely involved in implementation of the IFETCE – Strategic plan 2019-2024.



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Academic Years		2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
S.No	Key Progress Area (KPA)	Progressive Enhancement Targets (PET) - Year-Wise				
<b>1.INFRASTRUCTURE</b>						
1	1.Class room with LCD Projector(Window curtain)	90% of Classes	100% of Classes	100% of Classes	100% of Classes	100% of Classes
	2.Modernization lab	25%	45%	65%	85%	New Lab
	3. New Labs Established	0	0	1	2	2
	4. Industry Institute Interaction Cell and Entrepreneurship Development Cell	Initiate	2 Programmes/year	4 Programmes/year	5 Programmes/year	6 Programmes/year
	5.CMS & LMS	Initiate	25%	50%	100%	100%



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S.No	Key Progress Area (KPA)	Progressive Enhancement Targets (PET) - Year-Wise				
<b>2.TEACHING-LEARNING(CURRICULUM)</b>						
2	1.Self Learning Material	YES	YES	YES	YES	YES
	2.NIRF Ranking	Initiate	Initiate	Top 70 within TN state	Top 60 within TN state	Top 50 within TN state
	3.Professional Society tie-up	1/ Department	1/ Department	1/ Department	1/ Department	1/ Department
	4.Online Courses	3 Online Course /Department	5 Online Course / Department			
	5.Outcome based education (OBE)	Initiate	Enhance & Improve	Enhance & Improve	Enhance & Improve	Enhance & Improve
	6.NBA	Available for 3 departments	Apply for all eligible departments	Apply for all eligible departments	Apply for all eligible departments	Apply for all eligible departments
	7.NAAC	Available	Prepare Annual Quality Assurance Report / Year	Prepare Annual Quality Assurance Report / Year	Prepare Annual Quality Assurance Report / Year	Prepare Annual Quality Assurance Report /Year and apply for NAAC accreditation in Tier-I
	8.Industrial Collaborated Courses/ Lab	1 per Department	1 per Department	1 per Department	1 per Department	1 per Department



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<b>3. STUDENTS RELATED</b>						
3	1.Admission	65%	75%	85%	90%	95%
	2.Placement	70%	75%	80%	82%	85%
	3.Student Scholarships	15%	20%	25%	30%	35%
	4. Avg Cut-off	120	125	130	135	140
	5. Entrepreneur Development	Introduce	2 Activities	5 Activities	10 Activities	15 Activities
	6.Best Project - Awards	2/Dept	2/Dept	2/Dept	5/Dept	5/Dept



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<b>4.FACULTY RELATED</b>						
4	1. Pass % (UG)	85	85	>=85	>=90	>=95
	2. Pass % (PG)	90	>=95	>=95	100	100
	3. Faculty Avg. Experience	6	6	7	7	8
	4.Student-Faculty Ratio	8:1	8:1	8:1	8:1	8:1
	5. Attrition Rate	20%	15%	12%	10%	< 10%
	6. Publication per department	25%	50%	70%	75%	80%
	7.Ph.D.	10%	15%	20%	20%	25%
	8. Workshop / FDP Attended -External	1/Faculty	2/Faculty	2/Faculty	2/Faculty	2/Faculty
	9. Workshop / FDP Attended - per faculty per year	1	2	2	2	3
	10. Industrial Training	1 / Dept	2 / Dept	2 / Dept	2 / Dept	2 / Dept



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<b>5.CO-CURRICULAR (STUDENTS)</b>						
5	1.Publication -Journal/ Conference	20%	45%	55%	65%	85%
	2. Students Project	50% of students	60% of students	70% of students	75% of students	75% of students
	3.Workshop / Seminar Attended	1/Year	1/Year	1/Year	1/Year	1/Year
	4.Industrial Visit	2/Year	2/Year	2/Year	2/Year	2/Year
	5.In-Plant Training	2	2	2	2	2
	6.Internship	6 Weeks	6 Weeks	6 Weeks	6 Weeks	6 Weeks
	7.Club to Strengthen English	Introduce	1 Activity	2 Activities	2 Activities	2 Activities
	8.Value Added Course(s)	1/Dept	2 / Dept	2 / Dept	2 / Dept	2 / Dept
	9.Placement Training	15 Days / Year	15 Days / Year	15 Days / Year	15 Days / Year	15 Days / Year
	10. Personality Development class	2 Activities/ Year	2 Activities/ Year	2 Activities/ Year	2 Activities/ Year	2 Activities/ Year



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S.No	Key Process Area (KPA)	Progressive Enhancement Targets (PET)-Year-Wise				
<b>6.EXTRA CURRICULAR (SUPPLEMENTARY PROCESS)</b>						
6	1.Sports	Athletic	Volley ball	Foot ball	Basket ball	Cricket
	2.Tournaments @ Level	College Level	College Level	Zonal Level	Zonal Level	Zonal Level
	3.Alumni Association	1/Year	1/Year	2/Year	2/Year	2/Year
	4.Association Activities	6 per Semester	6 per Semester	6 per Semester	6 per Semester	6 per Semester
	5.NSS/RRC/YRC Activities	3/Semester	3/Semester	3/Semester	3/Semester	3/Semester
	6.IAS, IES (UPSC) & Banking exam	Initiate	10 Students	15 Students	20 Students	25 Students
	7.Foreign Language Training	1 Language	1 Language	1 Language	1 Language	1Language
	8.Village adoption/ISR/CSR	1	1	2	2	4



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<b>7.RESEARCH AND DEVELOPMENT STRATEGY</b>						
7	1.Research FDP/Workshop	2 Nos.	2 Nos.	2 Nos.	2 Nos.	2 Nos.
	2.Ph.D. completion	1	2	2	3	3
	3.Ph.D. registration	Plan to Initiate	4	5	6	7
	4.Funded Project - applied (10 - 15laks)	2 Nos.	3 Nos.	5 Nos.	10 Nos.	15 Nos.
	5.Funded seminar/workshop conducted	1	2	3	4	5
	6.International Conference	1	1	1	1	1
	7.Funded Student Project	3/dept	4/dept	4/dept	4/dept	4/dept
	8.MoU with industry	1 Nos.	1 Nos.	2 Nos.	2 Nos.	2 Nos.
	9.MoU with IIT, NIT and reputed institutions	Analyse	Analyse	1 No	1No	1 No
	10.Consultancy	1 /dept	1 /dept	1 /dept	1 /dept	1 /dept
	11. Patent applied (TOTAL)	2	5	5	10	10