TKM COLLEGE OF ENGINEERING

(Government Aided and Autonomous)

celebrating 60 years of excellence

INSTITUTIONAL STRATEGIC DEVELOPMENT PLAN

www.tkmce.ac.in

Institutional Development Plan (IDP) for TKM College of Engineering, Kollam.

Vision

Excellence in education and research with socio-economic and environmental outlook.

Mission

- To offer state-of-the-art Undergraduate, Postgraduate and Doctoral programmes
- To enhance knowledge by engaging in cutting-edge research and by undertaking collaborative projects with industry
- To instill ethical, social and environmental perspectives in designing systems for sustainable development
- To nurture creativity, self-learning and interpersonal skills

Core Values

1. Excellence

2. Innovation

3. Community and Purpose

4. Adaptation and Collaboration

Areas for Improvement

1. Governance (G)

2. Finance Utilization (F)

3. Academics (A)

4. Research, Consultancy and IP (R)

5. Human resources Development (H)

6. Outreach, Networking and Collaborations (O)

7. Infrastructure and Digital Resources (I)

1.) Governance (G)

Long-term Goals (5-10 years)

GL1. Constant improvement of academic standards through robust processes and quality control mechanisms

GL2. Comprehensive stakeholder involvement to improve academic and research environment and for the holistic development of the institution

Short-term Goals (1-5 years)

GS1. Identifying the courses in demand for industry in the recent future and launching such courses in timely manner

GS2: Strengthening IQAC through robust data management system

GS3: Regular policy updates and implementation through stakeholder involvement.

2.) Finance Utilization (F)

Long-term Goals (5-10 years)

F1. Generate Alumni fund for promoting research infrastructure and student support

F2. Promote investment of industry in the institutional development like "industry supported lab" for each department.

Short-term Goals (1-5 years)

FS1: Increase the department wise contribution in revenue generation.

FS2: Ensure proper annual budgetary planning and execution

3.) Academics (A)

Long-term Goals (5-10 years)

AL1. Get listed in reputed international ranking frameworks.

AL2. Establish a robust outcome-based education system

AL3. Introduce new undergraduate and postgraduate programs in emerging areas in accordance with the stakeholders' needs.

AL4. Excellence in innovative teaching-learning approaches.

AL5. Improve involvement of In-campus Industry in the academic processes.

AL6. Develop innovative student engagement strategies for active learning.

Short-term Goals (1-5 years)

AS1. Achieve top ranking and accreditation from approved and relevant bodies. Targeted improvement in the KPIs of academics in the ranking frameworks. Implement regular reviews, surveys, and feedback loops and Update the curriculum and implementation regularly

AS2. More effective implementation of outcome-based education and assessment with realistic deadlines and automated documentation systems.

AS3. Encourage faculty to take up emerging areas in the field and offer electives, add-on, and MOOC courses

AS4. Implement innovative teaching-learning approaches utilizing the provisions of academic autonomy and also through dedicated faculty development programs.

AS5. Effective implementation of 'Professor-of-practice' and 'industry electives' in all departments.

AS6. Increased number of industry sponsored labs.

AS7. Improvise active learning strategies to enhance student engagement with effective feedback mechanisms.

4.) Research, Consultancy and Intellectual Property (R)

Long-term Goals (5-10 years)

RL1. Make the institution identified as a reputed research hub in emerging areas for knowledge creation and dissemination

RL2. Increase research projects, publications, and other intellectual properties both in quality and quantity.

RL3. Establish a Centre for Research, Funding and Collaborations

RL4. Deploying IPs generated for Revenue generation

RL5. Increase doctoral and post-doctoral research

RL6. Establish a Center for innovation and product development.

Short-term Goals (1-5 years)

RS1. Establish at least one centre of excellence in each department

RS2. Submit at least 2 research projects per department every year for funding

RS3. Target 20% increase in research publications and other intellectual properties every year

RS5. Establish Central Research Facilities

RS6. Allot research slots in timetable for faculty working as research guides

RS7. Conduct programs like design thinking, idea pitching, design solution, hackathon, etc. among students and staff to promote innovation.

5.) Human Resources Development (H)

Long-term Goals (5-10 years)

HL1. Achieve a placement record of 90% or higher.

HL2. Develop and implement a mentorship program for students.

HL3. Encourage entrepreneurship and start-ups through incubation centers and mentorship programs.

HL4. Mandatory industrial training for Faculty

Short-term Goals (1-5 years)

HS1. Achieve a placement record of 80% or higher.

HS2. Develop and implement a career development program for students.

HS3. Introduce programs for soft skills development, personality development, and leadership development.

HS4. Encourage student participation in co-curricular and extracurricular activities.

HS5: Promote "Earn while learn model" by involving students in consultancies, academic mentoring of lower semester students etc.

HS6: Offer skill-based certification programs for students

HS7: Encourage more MOOC and Skill Enhancement Courses

HS8: Prioritize the safety of the campus community and establish protocols and regular trainings for risk management

HS10. Improve student counseling and mentoring services.

HS11. Develop and implement a student feedback and grievance redressal system.

6.) Outreach, Networking and Collaborations (O)

Long-term Goals (5-10 years)

OL1. Expand the quality, diversity and global footprint in the intake of students

Establish strong industry partnerships for research, internships, and placements.

OL2. Organize industry-academia interaction events, including seminars, workshops, and conferences.

OL3. Establish partnerships with foreign universities for student exchange, research collaborations, and faculty development.

OL4. Establish a center for international affairs to facilitate global collaborations.

Short-term Goals (1-5 years)

OS1. Establish partnerships with 10 new industries for research, internships, and placements.

OS2. Organize industry-academia interaction events, including seminars, workshops, and conferences.

OS3. Collaborate with NGOs and social service organizations for rural outreach and fieldwork focusing on SDGs

OS4: Identify and generate MoUs with International Universities for Faculty exchange, international internships and twinning programs.

7.) Infrastructure and Digital Resources (I)

Long-term Goals (5-10 years)

IL1. Construct new buildings for academic, research, and administrative purposes.

IL2. Upgrade existing infrastructure, including laboratories, libraries, and sports facilities.

IL3. Implement sustainable and green campus initiatives, including solar power, rainwater harvesting, and waste management.

IL4. Establish a state-of-the-art incubation center for start-ups and entrepreneurship.

Short-term Goals (1-5 years)

IS1. Upgrade existing laboratories and equipment.

IS2. Implement a campus management system (ERP based) and digital infrastructure.

IS3. Improve campus amenities, including sports facilities, cafeteria, and hostels.

Action Plan

Step 1) Establish a Task Force

Constitute a task force with representatives from faculty, administration, and industry to oversee the implementation of the IDP.

Step 2) Allocate Resources

Allocate necessary resources, including budget, personnel, and infrastructure, to support the implementation of the IDP.

Step 3) Monitor Progress

Establish a monitoring mechanism to track progress, identify challenges, and make necessary adjustments to the IDP.

Step 4) Review and Revise

Review and revise the IDP every two years to ensure it remains relevant and effective in achieving the institution's vision and mission.

Timeline

Short-term Goals (1-5 years)

- Year 1: Establish a task force, allocate resources, and initiate faculty development programs.

- Year 2-3: Upgrade laboratories, implement a campus management system, and establish industry partnerships.

- Year 4-5: Achieve a placement record of 80% or higher, and establish a center for innovation and entrepreneurship.

Long-term Goals (5-10 years)

- Year 5-7: Achieve high ranking and accreditation from approved and relevant bodies and collaborations with industries and institutions.

- Year 8-10: Establish partnerships with foreign universities