

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

SHOBHAVANA CAMPUS, MIJAR-574225, MOODBIDRI



STRATEGIC PERSPECTIVE PLAN

2013





Strategic Perspective Plan 2013

Vision

To impart quality technical Education, moral values, social concern and patriotism to the students and mould them in to excellent professional and credible citizens

Mission

To set up centre for excellence by offering world class technical education and research opportunities of high standards and making our students technologically the best and ethically strong.



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Preface

Alva's Institute of Engineering (AIET) established in 2008, has launched path-breaking initiatives in Indian higher education with the introduction of innovative and modern curricula, insistence on academic discipline, imparting of Holistic Education and adoption of global higher education practices with the support of creative and dedicated staff. The Institute is affiliated to Visvesvaraya Technological University, Belagavi and recognised by AICTE of India. The strategic perspective plan for the five years (2013-2018) has been prepared to guide the activities of the college to achieve the vision and mission of the college. The strategic planning process was initiated by the Governing Council (GC) to give a strategic direction for growth. A Strategic Plan Advisory Committee (SPAC) was constituted in the year 2013 with the following Members:

Strategic Plan Advisory Committee (SPAC) -2013

SLNo	Name	Designation	Details
01	Dr. M Mohan Alva,	Chairman	Chairman Alva's Education Foundation
02	Mr. Vivek Alva	Member	Managing Trustee, Alva's Education Foundation
03	Dr. Peter Fernandes	Member-Secretary	Principal, AIET
04	Dr. Kishore Shetty	Member	Dean Academics
05	Mr. Sayeesh	Member	Head, Department of Computer Science
06	Dr. Ragavendra Rao	Member	Head, Department of Electronics & Communication
07	Mr. Mahesh Prasanna	Member	Head, Department of Information Science
08	Mr. Durga Prasad Baliga	Member	Head, Department of Civil
09	Mr. Suresh K V	Member	Head, Department of Mechanical
10	Dr. Santhos Acharya	Member	Head, Department of Physics
11	Dr. Basavaraju B	Member	Head, Department of Chemistry
12	Mr. Ramanada Kamath	Member	Head, Department of Mathematics

The Process

In order to have a better structure to the strategic plan, the SPAC will gather inputs from various stake holders of institute. The plan document was drafted for five years (2013-2018)



Core of Strategic perspective Plan

Goal 1: To create a sustainable, world class, infrastructure that support an effective learning environment.

Goal 2: One among the most highly respected Institution focused on Teaching and Learning.



Detailed implementation Plan

Goal 1: To create a sustainable, world class, infrastructure that support an effective learning environment.

Infrastructure is the most visible element in any educational institution. Infrastructure provides the ambiance and learning environment. The importance of infrastructure as a goal is high because AIET is developing infrastructure to sustain a large number of courses and departments.

Strategic Performance Measurement: Benchmark scores in comparison with an exemplar institution, Satisfaction of students, faculty in infrastructure.

Key Milestones: Plan creation, approval by management, funding

Key Risks: Funding.

Strategy 1.1: Create world-class infrastructure in terms of classrooms, and technology that supports global and local students.

Actions

- Infrastructure is the backbone of creating an effective learning environment. AIET will build two new academic blocks to provide the best infrastructure in terms of classrooms and other audio-visual equipment. In line with the stated objective of creating world-class infrastructure, AIET will continue to invest in creating an environment that promotes teaching and learning.
- AIET is also an institution which is sensitive towards the environment. Hence efforts would be made to create an infrastructure that promotes environmental sustainability. It is our endeavour to create a green campus where nature and modernity would co-exist.
- In order to reduce the power generated by non-renewable source, it is planned to use solar water heaters in hostels.

Strategy 1.2: Develop world-class learning infrastructure in terms of library, computing facilities, online resources etc.

Actions

- AIET would be developing a world-class library which will cater the needs of the academic



community across various departments. Since the world is moving towards digital repository, AIET would be focusing more on harnessing the digital resources which provide cutting-edge knowledge. AIET would be strengthening the already robust networking system by adding more bandwidth. Security is also a priority; hence AIET would be strengthening the IT department with more resources.

- AIET would also invest in developing IT-enabled infrastructure to facilitate collaboration and engagement between teachers, students, various campuses, industry, potential students etc

Strategy 1.3: Develop infrastructure for developing entrepreneurship, placement, Skill development,

Actions

- AIET will Establish Entrepreneurship Development cell (EDC) to cater needs of students. We will invest in developing infrastructure for entrepreneurship development.
- AIET already established a dedicated Placement & Training cell for catering all needs of students. We will invest developing infrastructure to give the career counselling and training for higher studies and placement.

Goal 2: One among the Most Highly Respected Institution focused on Teaching and Learning

AIET will encourage the development of an enriching student experience through innovation in teaching and learning, enhancing the holistic development of students through immersive learning pedagogy. The institution believes that students learn more by doing and hence the entire pedagogy is designed to give student's hands-on experience with the concepts.

Strategic Performance Measurement: Feature among top 1000 institutions in India in various rankings, ratings; various Departments ranked among top 1000 in rankings, High scores in Teaching and Learning component in rankings and accreditations.

Key Milestones: Annual Growth in Rankings of various Departments in ranking by reputed rating/ranking agencies. NAAC, NBA accreditations.

Key Risks: Competition. Culture, Costs involved in accreditation conformation.

Strategy 2.1: Enrich Student experience through pedagogical innovation, immersive learning, student-centric pedagogy, and living environment.

Actions

- AIET would like to have the students develop key competencies like Leadership,



Teamwork, Communication Skill, Social Sensitivity etc. The institute believes that these skills are developed in students by encouraging them to participate in various extra-curricular events and inter-collegiate competitions. The existing Immersive Learning framework would be strengthened by including innovative activities under the four dimensions.

- AIET believes that students would gain a holistic perspective through interacting with a diverse set of cohorts. Hence AIET would be investing in building a diverse community of students, staff and faculty members so that a vibrant cosmopolitan experience can be given to the students.

- We will Increase faculty engagement with students aimed at augmenting the students' life transforming experience and favoring the development of their abilities, skills, and competencies through the effective mentoring program. We will invest in training our faculty members to become excellent mentors for our students thereby enriching the student's life at Alva's.

- Assessment and feedback is vital in any teaching and learning endeavor. AIET would develop competency in analytics and use data to measure the student's learning, competency and satisfaction.

Strategy 2.2: Retain and Develop excellent faculty

The faculty is the key to success of any institution of repute. AIET recognize this and will ensure that there is a resource pool of faculty members who have a high caliber of research and teaching. We will encourage the recruitment and retention of quality faculty resource by committing greater rewards for excellence in teaching and research. We will ensure that AIET have a best faculty student ratio.

Actions

- Faculty size: Fine-tuning the number of faculty in terms of the number, quality, and competency. We will ensure that all the Departments under AIET would have an adequate number of faculty resources to pursue teaching and research.

- Faculty composition: We intend to strengthen the research output of our various Departments by recruiting faculty with research aptitude and competency. The institution would strive to broaden the diversity of the faculty resources in terms of gender and geography.

- Recruit Faculty with M.Tech over the next five years and encourage existing faculty members who do not have Ph.D. to complete their doctoral degree. The goal is to have all M.Tech faculty members and at least 10% having their doctoral degree by 2018.



• Strategy 2.3: Develop doctoral research centres

Actions

- Doctoral research centres are vital in the development of research output in organizations of higher learning. AIET will encourage every department to become an approved research centre for Universities.
- AIET would encourage the faculty members who are doctorate to enrol themselves as research guides at affiliated Universities.
- All the research centres would be directed to conduct training programs to encourage the scholars to pursue excellent research.
- The current research programs would be strengthened with the addition of resources like experienced faculty members and other administrative resources.

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Strategy 2.4: Develop Value added laboratories

Actions

- Develop Value added laboratories to learn content beyond the syllabus and inculcate research culture.
- AIET will establish close bonding between industries, entrepreneur and students to make research and development at the institute relevant to the needs of industries at national or international levels in the fields of Science, Engineering, Technology and Management
- AIET will establish interdisciplinary and multi-field prototyping lab, open for both students and faculties at AIET.
- Institution will build a lab for understanding of microscale physics for use in designing MEMS applications or micro machined devices.
- AIET will establish a Lab to create the next generation of embedded systems engineers with a practical outlook to help provide practical solutions to some of the real world problems.
- Institution will build a lab perform applied and innovative research in the area of internal combustion engines with an objective of increasing fuel efficiency, emission control and engine durability and new technology development. ICERL is dedicated to introducing new technologies in IC engines.
- AIET will establish a Lab to perform advanced research and development in the field of Basic Science.
- AIET will develop Centre For Bio Based Product Development Lab (Composite Lab): To engage in the design, fabrication and experimental evaluation of polymer matrix composite



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materials developed by reinforcing agricultural residue/by- products suitable for automobile, aerospace, marine and structural applications

- AIET will develop a lab to impart the knowledge of key manufacturing technologies and their underlying principles applied in current manufacturing industry.
- Institution will develop a Linux lab to make the students aware of the features and capabilities of Linux so that they can utilize its improved functionalities to develop new Linux based software and can also contribute to the development of the operating system itself
- AIET will develop a lab to build a native application for iPhone and iPad in the field of mobile application development for bridging the gap between academia and industry.

PRINCIPAL
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CHAIRMAN

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