



# **AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING**



**Approved by AICTE, Newdelhi, Affiliated to Anna University, Chennai**

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# **INSTITUTIONAL PERSPECTIVE PLAN 2018-2030**

  
**PRINCIPAL  
AALIM MUHAMMED SALEGH  
COLLEGE OF ENGINEERING**

The Millennium year 2000 saw the establishment of Aalim Muhammed Salegh College of Engineering. ALHAJ Dr. S.M. SHAIK NURDDIN founded the Aalim Muhammed Salegh Trust after his father's name in the year 1990. The College of Engineering offers EEE, ECE, CSE, Civil Engineering, Mechanical Engineering, B.Tech- IT. Aalim The College is approved by the AICTE. It is accredited by NAAC with B+ Grade (CGPA:2.67/4.0) on 18<sup>th</sup> October 2019.

Perspective Plan is a blueprint of efforts made by the Institution to impart quality education and achieve its vision, mission and goals and Objectives. Internal Quality QAC is the most prominent administrative body responsible for ensuring quality assurance and enhancement. The Perspective plan foundation includes Stakeholders, Research and Development.

Institutional Perspective Plan (IPP) of Aalim Muhammed Salegh College of engineering outlines the institution's Vision, mission and goals, as well as the strategies that will be used to achieve those goals. The IPP covers policy perspectives, leadership, management and professionalism at both the country and company level. Our well-crafted focused Perspective Plan and its profound implementations has been helped our Institution to attain the Goals and flurries the outcomes of its Short-term and Long-term goals.

## **1. VISION AND MISSION OF THE INSTITUTION**

### **VISION OF THE INSTITUTION**

The College with Cutting-edge Excellence in Learning, Teaching and Research integrates Academia, Industry and National Progress.

### **MISSION OF THE INSTITUTION**

**Mission - 1** To offer Project based learning for all the Subjects beyond the Syllabus.

**Mission - 2** To create Multidisciplinary and Interdisciplinary Research Environment among the Students through solving complex Social Technical Problems.

**Mission - 3** To motivate Faculty Members and Students to undergo MOOC Courses and Certifications.

**Mission - 4** To collaborate with Academia and Industry for Intellectual ambience to develop intellectual environment holistically and improve Human Capabilities.

The governance of the institution is reflective of and in tune with the vision and mission of the institution.

### **Our Core Values**

## **CORE VALUES OF OUR INSTITUTION**

The College encourages in a process of service oriented Institution that lead us to aware of the core values. The college practices are to seek and develop an Institutional culture that holds accountable.

**The College is dedicated to meet the needs of the students that serves:**

- Follow the mission and vision of the College, by focussing on the student needs.
- Create new programs and services to meet the industry needs.
- Continuously improve programs, services, systems and academic policies.
- Use technology for innovative practices.
- Inculcate good habits and social responsibility amongst students.
- Promote trust through professional education and fair placement.
- Support employee and student contributions.
- Strive for and contribute to environment sustainability and traditional values.
- Customize global standards and practices of engineering education.

## **2. PERSPECTIVE PLANS**

This perspective plan outlines the strategic goals and actions for short-term and long-term horizons for Aalim Muhammed Salegh College of Engineering. The plan aims to enhance academic excellence, research, infrastructure, and community engagement while aligning with the Institution's mission and vision.

### **Short-Term Perspective Plan**

1	Academic Excellence	Enhancing the curriculum by conducting more workshops and seminars to meet contemporary standards and to Improve student-faculty ratio.
2	Research and Innovation	Organize innovation challenges and hackathons to increase research output and quality and foster a culture of innovation.
3	Infrastructure Development	Upgrade existing facilities and enhance digital infrastructure.
4	Student Support and Engagement	Enhance counseling and career services. Expand clubs and societies. Organize cultural and sports events.
5	Community Engagement	Strengthen relationships with local communities for promoting social responsibility.

## **Long-Term Perspective Plan**

1	Academic Excellence	Achieve national and international recognition and expand the academic programs.
2	Research and Innovation	Lead in innovative research and technology by establishing strong industry-academia collaborations.
3	Infrastructure Development	Build state-of-the-art campus facilities with enhanced sustainability and green campus initiatives.
4	Student Support and Engagement	Foster a diverse and inclusive campus environment to enhance student experience and contentment.
5	Community Engagement	Be a leader in community service and engagement. Influence public policy through research and advocacy.

In the next five years, we will focus our work in three areas, to ensure imparting quality education and creating industry-ready engineers.

### **Areas of Focus:**

#### **a) Academic perspective:**

- Striving for academic excellence
- Establishing Centers of excellence in frontier areas of research
- Empowering the students for higher education in renowned institutions and Global Universities
- Establishing Centers of excellence in frontier areas of research
- Eco-friendly environment
- Enhancing the Placements in reputed companies.

**b) Stakeholders Perspective:**

- Striving for Academic Excellence.
- Enhancing the Placements in reputed companies.
- Accreditation of the Institution by national accrediting bodies like NAAC, NBA and other International Accrediting Organizations.
- Bettering of Industry – Institution Interactions
- Signing MoUs with industries.

**c) Research and Development:**

- To facilitate industrial and basic research in various fields of Engineering & Technology
- Some of the committees where faculties are involved in decision making are functioning in our institute.
- To encourage interdisciplinary research in various fields of Engineering and Technology.
- Establishment of research and development centers in each Department.
- Encouraging students in Start-ups and Entrepreneurship.

**3. SHORT TERM GOALS**

- To further improvise results, increase the number of students going for higher studies by clearing various entrance exams.
- To improve Sports, Cultural activities and literacy performances of students in inter and intra college competitions.
- To motivate Faculty members and students towards Research and Innovation by conducting interactive seminars and workshops with experts from Research, Innovation, Startups and Entrepreneurship.
- To conduct field of visits to industries, incubation centers and research organizations.

- To conduct intra and inter Institutional competitions in research innovation.
- To apply funded projects and also support by extending financial commitments to the R&D projects.
- To identify, motivate and conduct training on Entrepreneurship to students and promote them as Entrepreneurs during their course of study.
- To improve the employability skills of the students.

#### **4. LONG TERM GOALS**

- To strengthen Research and Development, Faculty members, Students has been inculcated by-- to train, design and Develop and deploy Projects by using the R&D Cell, Institution- Industry Interaction Cell (IIC) under the supervision of Department Project Coordinator.
- The funds are allocated to Research and Development Cell, Incubation Cell and IPR cell of the Institution in the budgets.
- The policies of R&D cell, includes Standard Operating Procedure for aiming long term plans.
- To motivate the Faculty members and Students periodically in writing project proposals to various funding agencies.
- To train students towards Entrepreneurship, Startups, Self-Employment and providing employment to others.
- To apply patent for all novel innovations.
- To publish all research outcomes in UGC recognized / Scopus indexed journals.
- To conduct / attend more online certificate courses such as Massive Open Online Courses (MOOCs) using private Portals such as Udemy, Coursera, etc and Government authorized bodies such as NPTEL, SWAYAM from cutting-edge technologies.
- **International Collaboration:** Collaboration with foreign universities in the areas
- of faculty research, faculty and student exchange
- Taking the institute to Deemed to be University status.

## **5. STRATEGIC PLANS AND ACTIONS**

### **STRATEGIC PLAN LAST SIX YEARS (2018-2019 & 2020-2023)**

In the last 2-3 years, it has been observed that

1. Some seats in some branches are remaining vacant.
2. Number of top rankers joining this institute: The figures are not encouraging

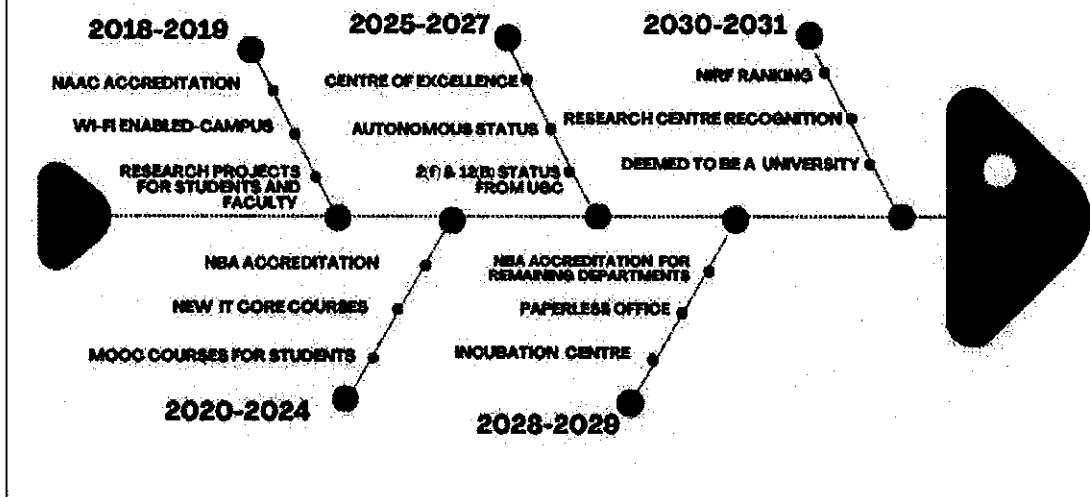
To sustain the competition and be in the list of reputed institutes of the Tamil Nadu, we have decided to focus on proper strategic planning aiming at planned development and growth of the institute.

### **The strategic plan for the current Five years is as follows:**

- 1) To get NAAC Accreditation
- 2) To become a Wi-Fi Enabled Campus.
- 3) To motivate and attain the Research Projects for Faculty members and Students.
- 4) To attain NBA accreditation for at least half of the total Departments.
- 5) To sustain in Educational Industry, new IT courses to be introduced in the Information Technology areas.
- 6) To motivate Faculty members and Students to certified in more numbers of Massive Open Online Courses / (MOOCs).



# AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING STRATEGIC PLAN



## **STRATEGIC PLAN OF NEXT FIVE YEARS (2025-2030)**

In the last 2-3 years, it has been observed that

1. **Attracting maximum students to all existing offered Courses:** The figures are not at satisfactory level.
2. **The Industry–Institution Interaction** is not in sustainable Level to attain phenomenal growth of the Institution.
3. **Faculty research and IPRs:** The quality of research and publications to be improved a lot In fact, there is a fierce competition in every aspect to attract admissions and build image with respect to academics and placements.
4. **Autonomous Status:** To be the top of HEI’s in our province, we aimed to have Autonomous Status on or before the academic year 2026-2027.

To sustain the competition and be in the list of reputed institutes of the country, attracting rankers from across the country, we have decided to focus on proper strategic planning aiming at planned development and growth of the institute. To address the above issues, deliberations with the stake holders revealed the following key points

- Imparting quality education and
- Producing industry- ready engineers

In the next five years, we will focus our work in four areas, to ensure imparting quality education and creating industry-ready engineers.

**Areas of Focus:**

1. Outcome based education is to be implemented in its true spirit
2. Faculty should take up quality research and publish in quality journals and work for IPRs
3. Faculty should integrate their research expertise in course teaching
4. Expose students to innovation, incubation, research and entrepreneurial activities and make them life-long learners Implementation

**Strategic Goals and Objectives**

Goal No.	Focused areas of strategic plan	Action plan
1	Outcome Based Education is to be implemented in its true spirit.	<ul style="list-style-type: none"> <li>• Create a web portal for effective implementation of OBE and to target an outcome based curriculum design and teaching-learning process and implementing the same.</li> <li>• Collect Feedback from Stockholders and Industry experts for continuous improvement in Teaching and Learning developments and content delivery methodologies.</li> </ul> <p><b><u>The following are initiatives</u></b></p> <p><b><u>Course Web portal</u></b> is to be deployed in our website which help the faculty to deploy an outcome based course implementation, and it will be released</p>

		soon for odd semester course work of AY 2024-25
2	Faculty should take up quality research and publish in quality journals and work for IPRs.	<ul style="list-style-type: none"> <li>• To provide Institutional research funding to the faculty to do initial quality research and prepare quality research proposals for possible funding.</li> <li>• Interaction with industry experts to work jointly on real world industry problems</li> </ul> <p><b><u>The following are initiatives</u></b></p> <ol style="list-style-type: none"> <li>a) Faculty research support scheme (FRSS) to convert UG projects and the dissertations into journal papers.</li> <li>b) Faculty research incentive scheme(FRIS)</li> <li>c) Strict implementation of academic integrity policy and plagiarism check using latest Open Source Tools.</li> </ol>
3	Faculty should integrate their research expertise in course teaching	<p>Include case studies, research papers, and patents in course teaching-Learning processes.</p> <ul style="list-style-type: none"> <li>• Motivate to do course projects and to be offered to the course students in Faculty research areas.</li> </ul> <p><b><u>The following are initiatives</u></b></p> <ol style="list-style-type: none"> <li>a) To motivate students to do more numbers of Research Projects in thrusting Areas of core domains.</li> <li>b) Targeting more innovative ideas for sustainability and summarizing course</li> </ol>

		<p>research papers.</p> <p>c) To file course patents by students for selective course beginning of Pre-final and Final-year of their Course of study.</p>
4	Expose students to innovation, incubation, research and entrepreneurial activities and make them life-long learners	<ul style="list-style-type: none"> <li>• Establish demystifying support to Incubation Centre to the level of a full-fledged innovation Incubation centre</li> <li>• Involve industry experts in course teaching and guiding student projects on industry problems</li> <li>• Involve alumni-entrepreneurs for supporting innovation eco-system &amp; start-ups.</li> </ul> <p><b><u>The following are initiatives</u></b></p> <ul style="list-style-type: none"> <li>• More Mouse are to be initiated to create the culture of innovation, incubation, research and entrepreneurship among students, as initial beginning</li> </ul> <p>The subject Faculty of R2021 curricula, is compelled to focus on integrating academic activities focusing on that will integrate Innovation, Incubation, Research and entrepreneurship (I2RE) culture into course teaching to prepare students to gain Industry standards to improve their academic outcomes as OBE.</p>

## **6. SWOC ANALYSIS OF AMSCE**

### **Strength**

- Our Institution is Eco-friendly green campus located and very near to Avadi -Air Force Station, CVRDE and IRPF Training Head Quarters and 100 feet connectivity to Outer-Ring road of at the outskirts of Chennai suburban area.
- The 20 years of Academic existence.
- The strong and viable support from Alumni of 7000 and above.
- Adequate number of well-ventilated classrooms, with comfortable seating and writing facilities for students
- Most classrooms fitted with overhead LCD projector and screen
- Classrooms and research facility fitted with Smart Boards
- Well-equipped laboratories with modern facilities stated by affiliating University
- Auditoria : Enclosed open-air auditorium for large college functions
- There 30% Faculty members with PhD and 35% are doing Ph.D.
- The Faculty members and Students are facilitated to do Higher Studies with full Academic and indirect or partial Financial support from our Management.
- Facilities to do In-house projects, self-Learning through dedicated Wi-Fi connectivity and online MOOC courses.
- Collaboration with ICT Academy, PALS and NPTEL, brings academic and Career growth opportunities.
- The Career Planning and Development Cell with strong in-house training facilities for placements in Software and other core companies.
- The phenomenal Cutting-Edge Technological trainings through Club activities, Workshops, and Value added Courses flurries more numbers of Industry standard Job aspirants, Entrepreneurs and Startups.

## **Weakness**

- The campus readiness programs are not reaching and effective to the students of rural areas south Tamil Nadu.
- The new Curricula set by Anna University have inclusive subject types is not well adopted by students due to lack of flexibility to incorporate new topics and do away status with few obsolete topics and practices.
- The Research opportunities are not inculcated very effectively to the Faculty members and Students.
- The inadequate sponsored / funded projects and Funded Agencies bring down the profound growth in Research & Development and Startups and Entrepreneurships.
- The weak industrial consultancy through deliberate Collaborators pulls down Research outcomes, placements and self-employments and Startup opportunities of students predominantly.

## **Opportunities**

- The Alumni settled in Industry and overseas slowly started contributing by supporting the current students and provides vital Career guidance.
- The increased number of Memorandum of Understanding (MoUs) from each department of their core areas and provides opportunities to conquer cutting-edge technological elements and to do Learning, Practicing and participating in Competitive assessments.
- Students with excellent Academic background are motivated to target Higher Studies, Self-Employments and Startups through a dedicated Infra cum Technological Learning Supports through a dedicated Laboratory access with High-speed internet facilities.
- The phenomenal focus on Research practices through Project based Learning and certifications through MOOCs turn the student and Faculty communities to move forward and looking for Funding Agencies

## Challenges

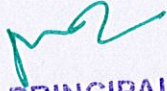
- Faculty attrition especially in Assistant Professors Cadre.
- Rational reducing of Focus and interest on studies and Career growth of Students due to with their multiple distractions.
- Lack of sustainable growth in placements in Core Companies and their
- Targeting and getting the Funded projects from Government Funding agencies such AICTE, DST, ICMR, UGC, etc.

Challenges and opportunities of our Institution fall into four major areas:

- Academic Excellence and Research
- Technology and Innovation
- Consultancy and Funding
- Employability and Entrepreneurship

Our Institution has taken acknowledge of these unprecedented changes, and has ensured that curriculum development responds to these changes. The Perspective Plan has been prepared keeping in mind the quality assurance standards. After finalization, the perspective plan was discussed with the stakeholders namely Faculty Members, Students, Parents and Alumni. With the collective inferences, the Governing Council will decide the feasible decisions.

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