

#### AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by AICTE & Affiliated to Anna University, Chennai

NAAC Accredited Institution & NBA Accredited Courses

(CSE, ECE, IT & Mech Engg.)





A journey towards excellence with social conscience





COLLEGE OF ENGINEERING



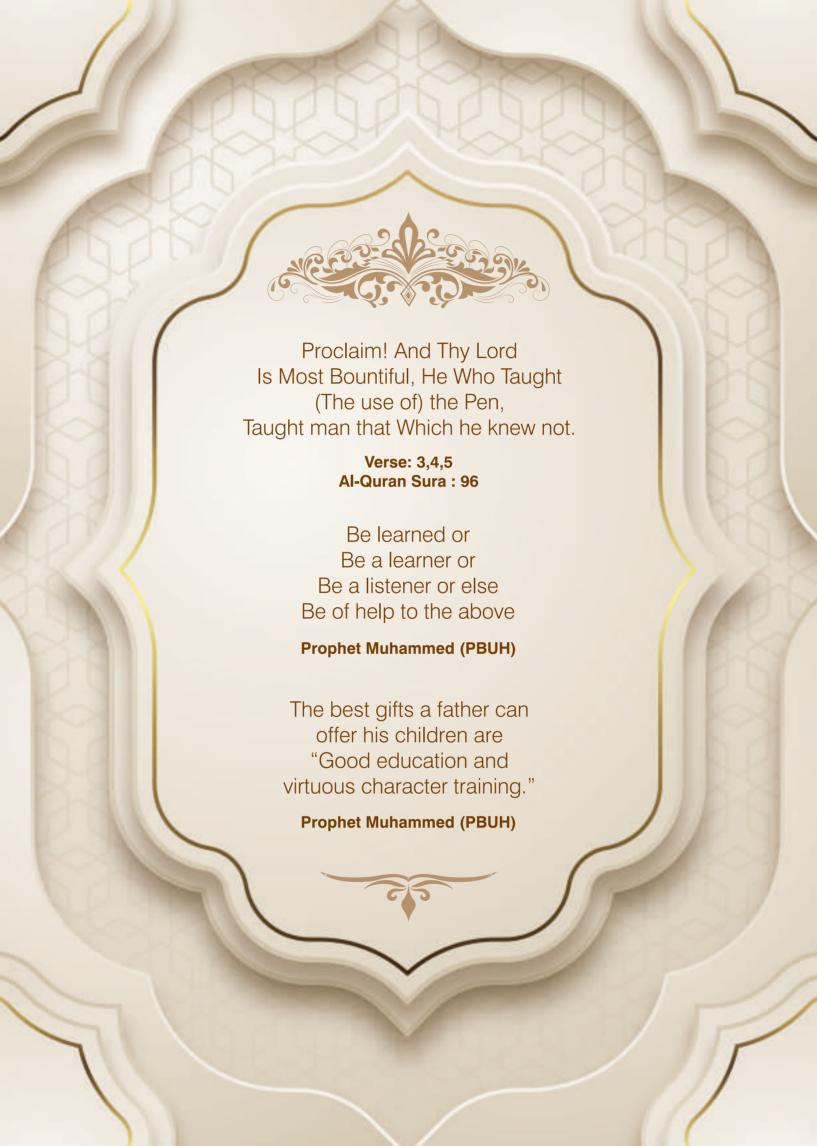


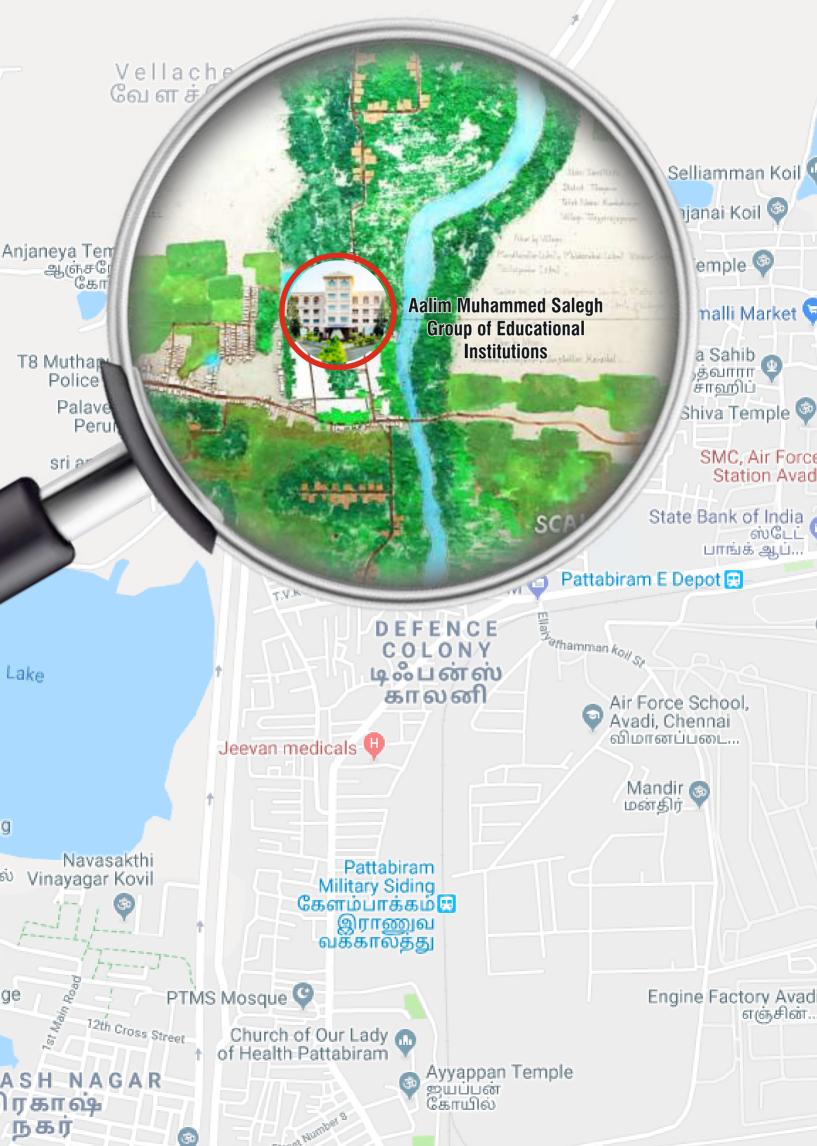






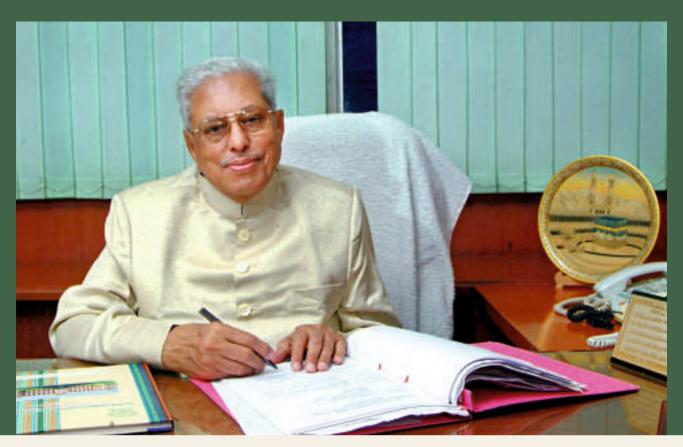
**PROSPECTUS** 





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Alhaj Dr S M Shaik Nurddin Founder

#### A GLORIOUS PAST

Sweet than that with! Who would know this better than our revered Founder Alhaj Dr S M Shaik Nurddin, who took upon himself the onerous but incredibly exciting task of establishing educational institutions of renown, way back in the early 1990s? With an unassailable conviction and single-minded focus, Dr Nurddin could overcome the hurdles, not withstanding them being potentially debilitating and menacing, to accomplish the mission he had undertaken. His colossal success against all odds and adversity is what we see now in front of us in the form of a formidable educational edifice.

Welcome to our group of educational institutions and immerse yourselves into the

engaging educational ambience we have created for you!

Functioning under the tutelage of the Aalim Muhammed Salegh Trust, our organization has relentlessly been carving a niche for itself in the Indian educational landscape, and gloriously remains a sterling beacon of hope for tens and thousands of higher education aspirants like you. Not the one complacent with past laurels, significant as they indeed are, we at the Trust continuously reinvent ourselves to remain current and relevant. Aligning ourselves with the changing demands of the times, we assiduously strive to serve the society as much better as possible, particularly in the areas of technical and medical education. Over the period of time since its inception, a little more

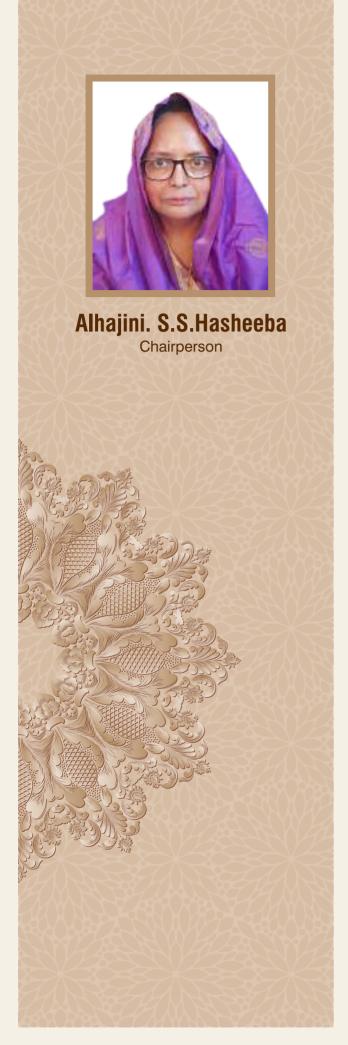


than three decades ago, our group institutions have been nurtured in such a way as to seamlessly accommodate the 21st century educational ecosystem, characterized primarily by, inter alia, disruptive technologies and Education 5.0.

By any reckoning, the distance Dr Nurddin has covered is not an insignificant feat. But, as his wont, the refrain of this unpretentious entrepreneur and a catalyst for change has been that there still are "miles to go." His unflagging zeal for serving the society finds its reflection in the Trust's motto of providing 'quality, affordable and inclusive education in a vibrant environment', and this continuously motivates us to scale greater heights. As a fitting tribute to our inimitable Founder, we at the group institutions rededicate ourselves to carry forward his glorious vision and indomitable mission of transforming the learners into as much educationally wellendowed as socially responsive and responsible.

State-of-the-art physical infrastructure complemented by cutting-edge digital technologies and professionally oriented human resources define the quality of our group institutions. This in turn contributes towards tailoring our curricula and learning experiences uniquely innovative to suit Gen Z, the present generation of learners who are digital natives with diverse learning styles. It is our resolve that we add value to you at every phase of your learning curve and encourage you to look far beyond the obvious.

Such is our socio-academic grooming that our graduates seamlessly move to the world of work from that of the academia with utmost ease and prove themselves to be much sought-after human capital. We ensure that you, our learners, transcend your comfort zones of any kind and evolve as multifaceted global citizens.



# From The Chairperson's Desk

Aalim Muhammed Salegh Group of Educational Institutions have been rendering yeomen services to the public in technical education. The motto of the Trust "to provide quality, affordable and inclusive education in a vibrant environment" richly reflects the vision of Dr. S.M. Shaik Nurddin, a leader par excellence.

Quality infrastructure and human resources being the prerequisite for quality education, the Trust's unflinching support for the creation of robust infrastructure and quality human resources. Bearing testimony to this fact is the enabling environment that exists across the Trust's group institutions for learning, research and innovation. The unique and innovative curricula that the Trust nurtures, while adding value to the learners, ensure that they gain a holistic perspective of the world around them and encourage them to look beyond the obvious. Thus groomed are the learners, who on graduating, gently glide into the role of professionals of repute with ease, excelling in their chosen career paths.

As a rich tribute to our inimitable Founder, we at the Trust sincerely carry forward his glorious mission of transforming the learners into educationally well-endowed and responsible, global citizens.

# **Mohamed Salegh** Secretary & Correspondent

# From The **Secretary's Desk**

The proverbial first step that Alhaj Dr. S.M. Shaik Nurddin, our beloved Founder, took towards embarking on an exciting educational journey changed for ever the educational ecosystem of the State. Guided by the indomitable spirit of social cause, he embarked on an epoch-making journey to bring education to all those who desire it. The rest, as they say, is history for this modest entrepreneur, who became a pioneer of tall order in the field of education. Convinced that education holds the key for social transformation and national development, Dr. S.M. Shaik Nurddin set upon himself the onus of establishing educational institutions of international standards to make access available, affordable and quality education.

Continuous updating has been the hallmark of the Trust and the educational group it represents. In sync with this philosophy of institutional upskilling, and staying current and relevant to the expanding knowledge horizon in the wake of phenomenal growth in technology and the concomitant work profile changes, the College introduces a newly minted Department during the Academic Year 2023-2024, in addition to the existing ones, to offer Courses to ably address the present and immediate future needs: Department of Artificial Intelligence and Data Science.





## PRESENT and Future Perfect

n line with the paradigm shift in education, our group institutions have embraced technology-enabled learning environments (TELE). Despite sounding clichéd, we acknowledge that the Corona-triggered global lockdown made us scout for alternative means of learning delivery not only to arrest the potential learning loss but also to augment educational provisions and enhance learning effectiveness. Though TELE, admittedly, precedes the pandemic, there is no gainsaying the fact that it indeed was instrumental in accelerating the extensive use of technology in the teaching/learning contexts. Online learning, for example, has increasingly become an integral part of education, and our



group institutions have deployed it, where necessary, as a complementary learning delivery mechanism.

The future of learning promises to be still more dynamic, if the emergence of AI (Artificial Intelligence), ML (Machine Learning), IoT (Internet of Things), Robotics, Data Science/Analytics, etc., is of any indication. One sterling example of what is awaiting is the AI based ChatGPT! What we see in terms of these disruptive technologies is but a tip of an iceberg, leaving what is in store unpredictable and unimaginable as yet. Their impact on technical and medical education and, of course, the whole of humanity is

anybody's guess. However, we see the challenges and imminent changes as unprecedented opportunities for knowledge exploration and professional excellence. As we explore the possibilities, we welcome you to join hands with us to create a brave new world and world order.







#### **Aalim Muhammed Salegh**

#### **College of Engineering**

ffiliated to the Anna University, Chennai, and recognized by the All India Council for Technical Education (AICTE), New Delhi, the College has been serving the student community since its inception in 2000. Besides imparting domain knowledge in the most innovative way, the College provides the learners with the required support in terms of their personal growth. We are well aware of the changing job profiles and the resultant requirements expected of the candidates as well as the fast emerging environment that encourages entrepreneurship and Start Up culture. We have therefore put in place mechanisms to ably address these issues and help each and every learner to cope with the challenges. We strongly believe that engineers are an indispensable material in building a strong Nation. As a result of which, we have designed our academic programmes and learning experiences

as much engaging as possible in order to prepare the young talents to confidently face the present needs and future demands.

#### **Eligibility for Admission:**

As per AICTE & Anna University norms.

World class infrastructure augmented by highly qualified and experienced members of faculty and staff ensure an environment conducive for learning, and this applies to each Branch of Study the College offers at the Undergraduate level. Periodically updating the curricula in terms of domain knowledge and industry/market demands is an established norm in the College. Faculty members are accordingly

upskilled continuously. A robust Industry-Academia Interface is a distinguishing mark of NAAC Accredited College that provides the learners with easy access to in-house facilities including Central Library that boasts of well-stocked, bound volumes/titles as well as e-books and e-journals; Labs equipped with instruments that meet industry standards; student transportation / accommodation arrangements; placement services; recreation facilities, etc.

As much as it gives importance to the academic excellence of learners, the College encourages them to indulge in extra- and cocurricular activities including cultural and sports events.

Indeed, the vibrant atmosphere in the College facilitates the growth of learners as responsible citizens.





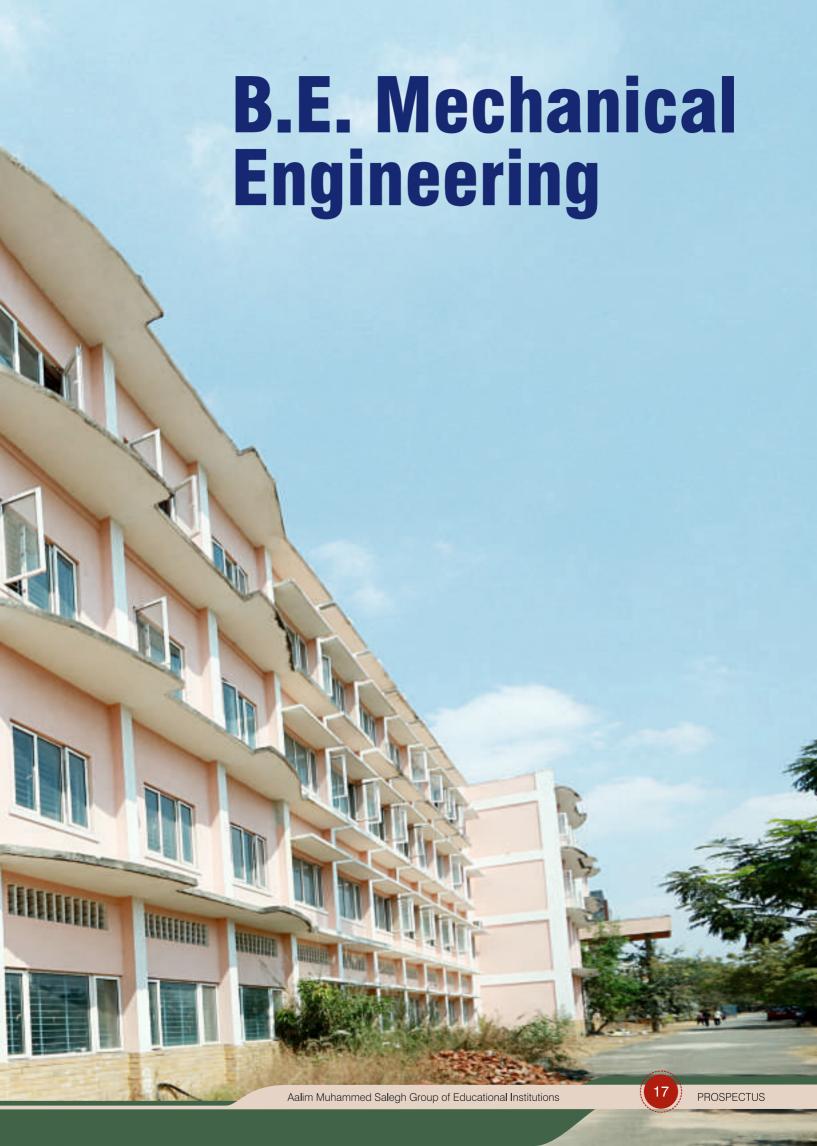




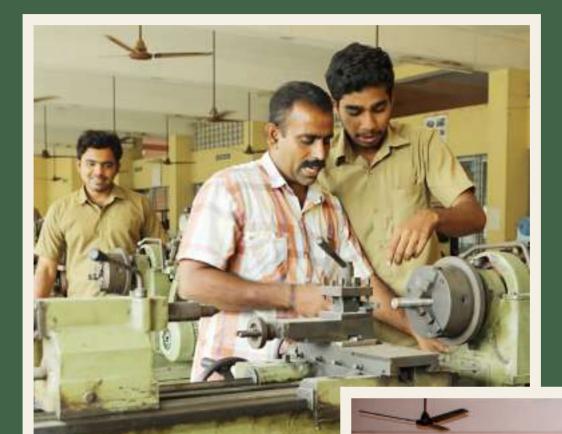








## **B.E.** Mechanical **Engineering**



onsidered one of the oldest branches of engineering, Mechanical Engineering is a major contributor of economic growth of any country. Applying the principles of Engineering, Physics and Materials Science for the design, analysis, manufacturing and maintenance of mechanical systems, Mechanical Engineers play a vital role in deploying and managing machines and systems across industry verticals. Germany, Taiwan, Korea, Japan, China, etc., are some of the countries that attest to this fact. Though India is not far behind, quite a lot is yet to be accomplished.

Core concepts of mechanics, kinematics, thermodynamics, materials science, structural analysis as well as allied subjects are what mechanical engineers require to make rich contribution towards national development. In the Department, therefore, students are exposed to these very core concepts and key principles along with computer-aided engineering with a view to preparing them to design and analyse machinery across plants, industries and systems. Our curriculum with its special emphasis on industrial exposure and practical training is highly advanced and is designed in such a way as to meet the current industrial requirements.

#### **Human Resources**

The Department is constituted by well-qualified and highly trained faculty members who are committed to mentoring students. They take the students through the various aspects of mechanical engineering and help them gain profound





insights into the field. The Department regularly arranges talks and lectures through Guests drawn from industries and academia and creates a platform for the students to interact with them and gain diverse perspectives on the latest trends in mechanical engineering as a field of study and as an industry.

The Department's cutting-edge equipment and tools allow the learners to apply their learning in a controlled environment and gain practical experience. The manufacturing laboratory is home to a central lathe with all the necessary accessories. There are also exclusive lab facilities for sand-moulding, injection plastic-moulding, fluid mechanics and machinery, electrical engineering, testing strength of materials, manufacturing technology, computer-aided drawing and simulation, mechatronics, thermal engineering, metrology and measurements and CAD/CAM, among others.

#### Research and Innovation

The Department frequently organizes events and workshops to ensure that the learners and faculty get a wide range of exposure and diverse perspectives on their chosen area of specialization. Learners with generous guidance from faculty members regularly present papers on their research at symposia, seminars, etc., as well as publish their findings in national and international journals.

#### **Career Path**

On-site and in-plant orientation and training in premier organizations/industries is an essential part of our curriculum. Students are attached to such industries such Wheels India, TVS, Ashok Leyland, etc., to name a few, for the purpose. Not only does this exposure help the learners in applying their theory into practice but also gain personal development skills. Mechanical Engineers being much sought-after for a wide variety of industry verticals including automotive, aeronautical, manufacturing, petroleum, etc., students of the Department secure well-paid assignments, through our placement efforts.















# B.E. Electrical and Electronics Engineering

Electrical and Electronics Engineering is a field with multi-dimensional application values across industry verticals. Electrical and Electronics Engineers generally deal with the study and application of electricity, electronics and electromagnetism. They play a pivotal role in the context of design, development, testing and supervision of electrical and electronic equipment and machinery. Little wonder that engineers from this stream remain much in demand for their interdisciplinary skill sets, which in turn make them highly employable.

Much like the field itself, the Department represents dynamism. Constantly evolving, it is fully geared towards meeting industry standards. The rich curriculum it imparts is essentially focused on preparing the learners for an all-round growth.

#### **Human Resources**

The Department is home to popular teachers and acclaimed scholars/experts. Their orientation and wide exposure is such that they are fully in tune with the latest industry standards. Armed with expert knowledge in emerging global areas such as embedded systems, electronics applications in power and specialized systems, the faculty members provide the students with a rich learning environment conducive for imbibing theoretical knowledge and demonstrating practical acumen.

The state-of-the-art laboratory of the Department, housing modern equipment and the latest software packages, ensures that the learners gain a strong theoretical base and firm practical footing in the field.

#### **Research and Innovation**

The Department periodically arranges conferences, symposia, seminars, etc., in order to provide a rich platform for students to exchange ideas and knowledge over the latest developments as well as on-going research in the field. The Department also regularly hosts workshops to enrich the practical knowledge of the learners, and as a consequence of which, they get their skill-sets sharpened in real-life settings. Such is the depth of their research and innovation that the learners have been earning laurels from premier institutes for their engineering feats, particularly in Robotic Engineering.



#### **Career Path**

As part of the curriculum, the learners are exposed to on-site/in-plant training. During this training process, they gain practical knowledge of designing, assembling and manufacturing in their chosen areas of work. Such regular in-plant exposures make our learners highly sought after across industries ranging from mining, instrumentation, software, manufacturing and electronics.













# B.E. Electronics and Communication Engineering

his stream of engineering primarily involves transmission of information across systems and devices that co-exist to produce a seamless experience. The phenomenal growth in microelectronics, optical-fibre technology, disruptive digital technologies, etc., has completely transformed the way we interact with machines and how they respond to our needs. Imagine how the Internet of Things (IoT) is going to change our life!

The tremendous growth in electronics has paved a way for innovation across multiple fields such as healthcare, automotive and manufacturing industries, to name but a few. The fouryear UG programme of Electronics and Communication Engineering exposes the learners to one of the most advanced curricula and learning environments that fosters a thorough understanding of concepts with practical know-how. Introducing the learners to basic principles and performance of electronic devices and circuits, the programme walks them through various specializations such as power generation and transmission, communication, computers, electronic or electrical equipment manufacturing, etc. The rich combination of theoretical knowledge and practical experience that defines the curriculum provides the students with a firm grounding preparing them for the world of work.

#### **Human Resources**

Hosting some of the best academics and industry experts in the field, the Department stands tall in working closely with the learners and provides them with sound knowledge both in technical and practical aspects. In the process, learners are well-equipped with the required skill sets for knowledge transfer in their workplace.

The Department flaunts an advanced laboratory with electronic circuits, electronic devices, microprocessors and digital signal processing, microwave communication, VLSI, optical communication, simulation lab, MatLab, and SPICE. A licensed CISCO Networking Academy with CISCO Networking Lab, the Department facilitates the learners to get sufficient exposure to latest network standards.

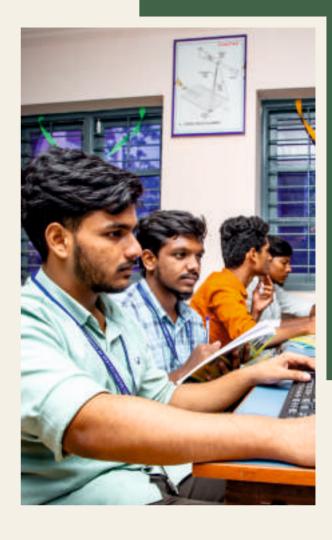


#### **Research and Innovation**

The Department of Electronics and Communication Engineering routinely organizes events and workshops on areas of importance in order to provide the learners with a platform for exchanging ideas over the latest developments and research in the field. Furthermore, the Department encourages the learners to actively participate in seminars and projects to simulate real-life industry problems and keep them abreast with the cutting edge technologies in the field.

#### **Career Path**

Graduates from this stream are a preferred choice for installation, operation and maintenance of electronic equipment and complex systems across national and international industries that deal with healthcare, government projects, defence, space research, telecom, manufacturing and automotive. In short, the learners are much in demand for their unique skill-sets.









## B.E. Computer Science and Engineering

he quintessence of the 21<sup>st</sup> century is disruptive technologies and the attendant programming languages. No wonder, myriad APPs govern our day-to-day activities! The pervasiveness of Artificial Intelligence (AI) is a telltale example of what is in store for us in the immediate future. ChatGPT is but a fraction of it, indeed. Chatbots are gradually taking over the human element in different sectors of work. Technology continues to transform our everyday lives in a way and manner that was unforeseeable even a few decades ago.

Computer science is at the heart of our technological evolution. An engineering degree in Computer Science proves to be a steppingstone to a life-changing and lucrative career – a career that is in high-demand both nationally and internationally. Recognizing this potential, the Department offers a four-year UG programme that ensures the learners to have a comprehensive grasp of concepts and practical know-how. So rich is the curriculum that it decidedly transforms the learners to highly competent and successful software engineers/professionals. It caters to the needs of the professionals in this field who apply the principles of computer science and mathematical analysis to the design, development, testing and evaluation of complex software and systems that integrate across applications. It also provides the learners with a strong research and development expertise as well as deep insights into the application of theories on practical environments.



#### **Human Resources**

The Department boasts of outstanding faculty members, who constantly update themselves to meet the demands of this ever-evolving field. In addition to the in-house faculty members, the Department periodically engages guest faculties and industry experts to impart new emerging knowledge to the students.







Besides three cutting-edge laboratories that are fully equipped to address the needs of the advanced curriculum and takes pride in having state-of-the-art capabilities involving data processing and storage, OOAD and systems, the Department also has a well-stocked library that accommodates a variety of national and international Journals, including e-journals, and publications.

#### **Research and Innovation**

Periodic conduct of technology conclaves for sharing and exchanging ideas, best practices, etc., is the distinguished feature of the Department. Moreover, it hosts various events that test the skills of learners and motivate them for innovative thinking. The Department has strong linkages with various organizations of repute such as the Computer Society of India (Student Chapter), IEEE (Student Chapter) and Institution of Engineers. This immensely helps the learners gain the muchneeded exposure to a wide variety of cutting-edge research in the field. The Department has also signed up MOUs with leading industry players such as IBM for imparting specific skills to learners in order to give them the competitive edge.

#### **Career Path**

Given that software engineers are much in demand across the globe, the Department ensures that the learners get the best training and exposure so that they can prove to be of tremendous asset to any organization they work for. With solid domain knowledge and technical background, the learners are well positioned to join business majors both in public and private sectors, across a variety of industry verticals.





#### B.Tech. Information Technology

ince the late 19<sup>th</sup> century, there has been tremendous growth in Information Technology, which in turn, changed forever the way we interact among ourselves and with the machines around us. Automation is getting increasingly sophisticated and customized to suit the needs and requirements of individuals and organizations alike. The emergence of big data/mega data and massive advancements in computing has made information technology the key driver for growth. Information technology powers information systems, automates businesses, provides business insights, facilitates business interfaces and provides efficiency-inducing productivity tools making it critical for businesses worldwide.

The Department of Information Technology provides learners with a solid theoretical knowledge and practical know-how through its advanced curriculum that covers programming language, web technologies, networking technologies, information management, cybernetics, etc. It offers scholarships to over 10% of the learners through institutional and regional funding arrangements.

#### **Human Resources**

Highly experienced faculty members, well-versed with the latest trends in information technology as well as latest standards that are instrumental in shaping the market, mark the Department. They dedicate themselves to grooming the learners so as to make them highly capable computer scientists and engineers.



The Department has three cutting-edge laboratories that are fully equipped to cater to the needs of the advanced curriculum and boasts of state-of-the-art capabilities involving data processing and storage, OOAD and systems. It also has a well-stocked library that boasts of a variety of national and international Journals.

#### **Research and Innovation**

The Department periodically conducts industry-based training sessions for both learners and faculty members in order to ensure that they are ahead of the innovation curve in this rapidly evolving field. By regularly organizing technology conglomerations, the Department provides an atmosphere conducive for free exchange of ideas and information. It also hosts frequent events that test the skills of the learners in the field. While its MOUs with leading industry players such as IBM help the learners gain hands on experience, its linkages with well acclaimed professional bodies such as Computer Society of India (Student



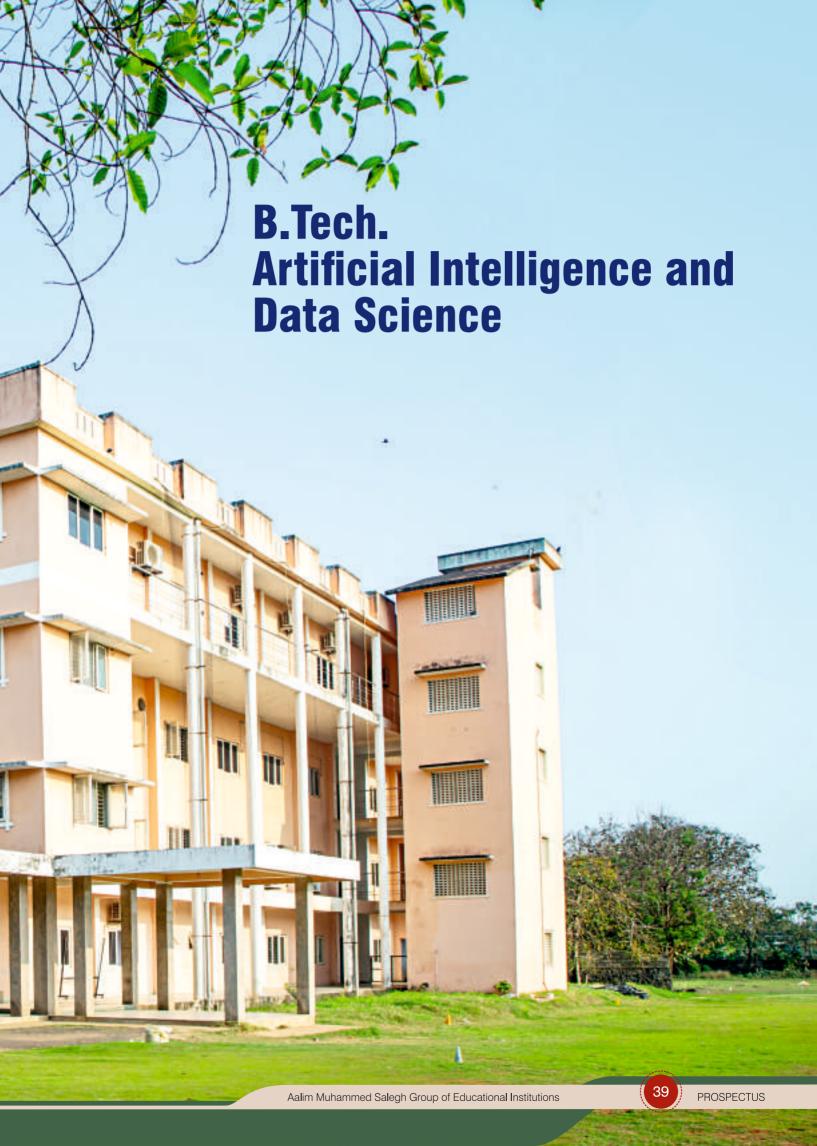
Chapter), IEEE (Student Chapter) and Institution of Engineers expose the learners to a wide array of cutting-edge research in the field.

#### **Career Path**

There is no dearth of career options and opportunities in the field of Information Technology. The well-conceived and delivered curriculum that has a judicious mix of theoretical frameworks and practical know-how comes handy for the learners to get opportunities at MNCs, IT majors and public and private enterprises across industry verticals.







# B.Tech. Artificial Intelligence and Data Science

hat Artificial Intelligence (AI) holds key to development may sound clichéd, considering its pervasiveness in the human ecosystem. As a field of computer science that creates intelligent machines to perform various tasks that have typically been the prerogative of live human beings. Al is a manifestation of human intelligence including visual perception, speech recognition, decision-making, interpersonal skills, natural language understanding, etc. So rapidly advancing, Al technologies and associated machine learning environments coupled with Data Science - an interdisciplinary field that involves the use of various techniques and tools to extract insights and knowledge from data - have started revolutionizing many industries. For instance, such industries as agriculture, healthcare, finance, energy, transportation, entertainment, hospitality, etc., are already seeing sea-changes in terms of human resources management, operations, customer services, etc. And, with ChatGPT, and its variants, it is just a matter of time before the education sector is looked at from a completely different plane.

The Department of Artificial Intelligence and Data Science focuses on the development, implementation, and application of artificial intelligence and data science technologies. In today's data-driven environment, these technologies are essential in assisting organizations to exploit their optimal potential for growth, efficiency, finance, decision-making and competitive edge, to name a few. As much as there is hope, there are concerns about Alin terms of ethical implications. For example, is Al going to replace manual work or reduce the human element in workplaces? How does it impact on socio-economic scenario? As the Department is well aware of the potential benefits of Al technologies as well as the ethical issues about them, the Course is designed to expose the students to the ethical use of Al.



#### **Human Resources**

Notwithstanding the fact that AI is an emerging field, the Department is home to seasoned faculty members representing an amalgamation of expertise in computer science, humanity, mathematics, statistics, etc. Such is the strength of the faculty that students will get a judicious mix of hand-holding as well as independent learning, solely depending on need.

### **Research and Innovation**

The scope for research and innovation is infinite given the nature of interdisciplinarity of the field and the fact that the field is still at its nascent stage. The faculty is not averse to experiment with the use of Al, Machine Learning (ML), Data Analytic and Internet of Things (IoT), in-house involving various Departments. This will provide opportunities for faculty members and students across the group institutions to come to grips with the emerging technologies.

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#### **Career Path**

That Al is omnipresent sounds an understatement, given its overt and covert pervasiveness. What does it mean for the employment market and entrepreneurial ventures? Even at its evolutionary stage, Al has penetrated into almost all sectors of industry, and it is growing at a speed that, before long, no sector will be left untouched. Those equipped with Al and Data Science expertise, therefore, will remain much sought after. And, you being the pioneers will stand to gain a lot.





# B.E. Computer Science and Engineering (Cyber Security)

#### Vision

• To commit to build a secured cyber cosmos to scaffold the global technological advancements.

### Mission

- To plunge into the industry expectations and hone young talents to translate the vision of 'secured cyber cosmos'.
- To spearhead quality Cyber Security education via contemporaneous, future-ready Academic & Industry specific practices.

In the world of digitalization, cyber space has turned into a household from kids to the elderly; from the semi-skilled to the highly literate and the technically advanced. Cyber space has found it's omnipresence into any field one could name, leaving behind no exception. When it has unflinched roots to every nook and corner to the advantage of human kind, it attracts along loud, multifarious threats and vulnerabilities too.

### Why to pursue Cyber Security? The threatening trio

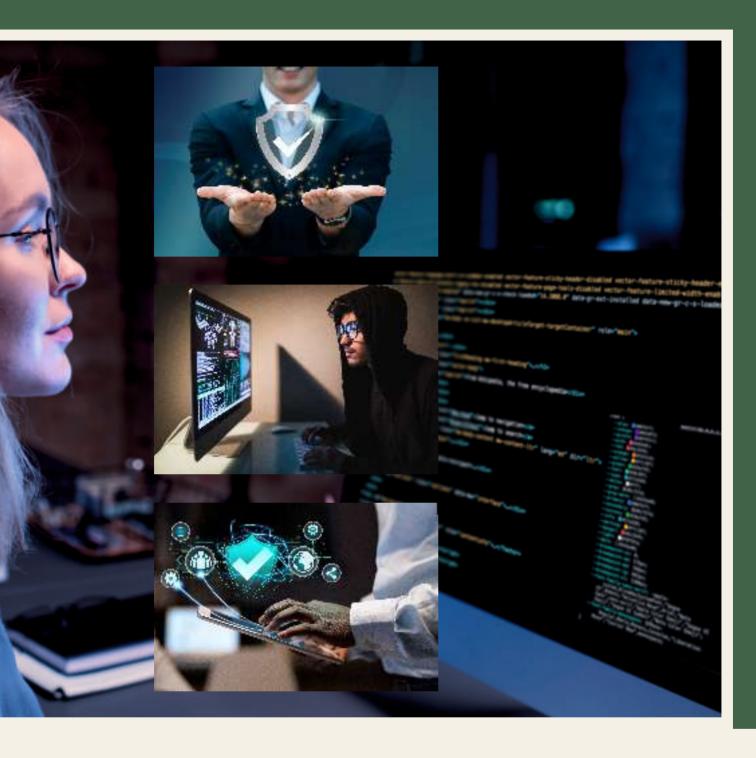
Cyber crime, Cyber attacks & Cyber terrorism, the threatening trio that surges into data leaks, hacking, unethical access, data breach, etc which have become common etymologies we witness as the shadow of cyber space. The number of cyber-attacks across the globe is on the steady increase, with shocking figures of billions of records being exposed by data breaches. Pinnacle of threat is the exposure of medical and financial data which is the alluring choice of hackers and cyber criminals, targeted for the quick and mammoth monetary benefits they could reap. That's exactly what brings in the need for Subject Matter Experts and young talents who will specialize in the field of cyber security. Moving forward, it's going to be the era that



will breed on cyber space from the launch/landing of a satellite to the robotic surgery that a surgeon could perform sitting miles and continents away. There's invariably and undoubtedly a huge demand for cyber security engineers who will be the 1st port of call to deal with the prevention and protection of cyber space to which the future belongs.

### **Career Scope of Cyber Security**

From a simple super market to logistics, banking, high speed transportation, medicine, aeronautics, the defence where data security is of paramount significance and any more industry that is yet to



evolve too has to conspicuously rely on cyber space and thus the inevitably on its security. Cyber security is an umbrella term, that contains in itself various arenas that include Network security, Application security, Information security, Operational security, Disaster recovery and business continuity, End-user education and so on. A huge pool of talents is envisaged to be on high demand to build and protect the cyber space. If you are aspiring to be one of the lucratively paid talents on demand in future, Cyber Security is undoubtedly a great choice. Titles that would look for qualified talents through this course include

- 1. Computer Forensic Analyst
- 2. IT Security Specialist
- 3. Cyber Security Manager / Engineer / Consultant
- 4. Information Security Analyst
- $5. \ Cloud \, Security \, Specialist$
- 6. Ethical Hacker
- 7. Data/Information Security Penetration Tester
- 8. IT/Data/Information SecurityArchitect
- 9. Data Theft Controllers

### B.E.

### Computer Science and Engineering (Artificial Intelligence and Machine Learning)

#### Vision

 To make headway for the futuristic world of technology driven by Artificial Intelligence & Machine Learning.

### Mission

- To contribute to building of futuristic technology by fostering young talents through quality education and their industry exposure.
- To offer the perfect foot-space to students via state-of-the art infrastructure to realize our vision.

Gone are those days when acumen in Engineering or Software sufficed to be at the forefront of a wide scope of career advantages. It's the era of cut throat competition ruled by talents who can carve a niche amongst the rest, which compelled us to introduce this contemporary course to support aspirants of the field to excel.

### Why to pursue Artificial Intelligence? The dynamic duo:

Not all that emerges deserves to be in the history. One of its kind of duos that has captivated the global arena today and is revolutionizing the technology corridor is Artificial Intelligence and Machine Learning. It's not an exaggeration to claim that the future belongs to those, who can master these twin epitomes of technology.

Artificial Neural Network is in place to stun the world with its precise and stupendous performance in natural language processing, computer vision, speech recognition, email filtering, agriculture and medicine.

Having been a great boon, data analysis has fascinated the way technology has been able to flaunt itself in the recent past. Yet, Artificial Intelligence has vividly portrayed that mere data analysis can't bring in the desired future



generation of technology that the world of automation aspires for. Artificial Intelligence takes it one step further and uses the data to solve cognitive problems commonly associated with human intelligence, such as learning, pattern recognition, and human-like expression, thereby unveiling endless areas of application with a surpassing potential to literally fast-forward anything under the sky. This course is a perfect blend of human and machine Intelligence that has its indomitable role, with complementing counter parts, viz., (1) Artificial Intelligence that simulates human thinking capability & behaviour and (2)

Machine Learning that allows machines to learn from data without being programmed explicitly.

Sky & Earth are not the limits when it comes to Artificial Intelligence. This course aims at nurturing development of machine-generated intelligence and analytics as a duo which has aerospace, robotics, retail sector, social networking, gaming industry and the list is endless.

The World Economic Forum has estimated that by 2025, 58 million jobs related to Data Science and Artificial Intelligence will be generated. Titles that will hunt for talents who pursue this course include



begun to encroach all mundane technologies, setting the all-new trend and approach towards how the world is bound to operate in future.

### **Career Scope**

The career scope of Artificial Intelligence and Machine Learning is not limited to any specific domain but is sure to permeate into every aspect of our lives and significantly impact substantial advancements in the manufacturing, healthcare, financial, telecommunication, e-commerce, climatology, biotechnology, genetics, research and development, IT & and IT-enabled services, banking, government agencies, insurance,

- 1. Business Intelligence Developer
- 2. Big Data Engineer/Architect
- 3. Database Developer
- 4. AI/& ML Engineer
- 5. Business Intelligence Strategist
- 6. Data Scientist / Engineer / Architect / Analyst
- 7. Data Mining Engineer
- 8. BusinessAnalyst
- 9. Data and Analytics Manager
- 10. Data Journalist
- 11. Deep Learning Engineer
- 12. NLP Engineer/Analyst
- 13. Robotic Scientist
- 14. Game Programmer
- 15. Artificial Intelligence Gadgets Developer

# B.Tech. Computer Science and Business Systems

### Vision

• To contribute as one of the pioneers to transform the Business Ecosystem via Engineering & Technology.

#### Mission

- To embark on an interdisciplinary approach that collaborates Engineering & Non-Engineering aspects of business.
- To bolster up students' scope for creativity in problem-solving in the light of Engineering, Technology & Business administration attributes to scale up the Business System holistically.

Every technology or framework that is evolved is to ultimately propel and drive momentum to the business system whether it's a Start-up, micro, small, medium, family business, a global network or a multinational. Goes behind the nerves of business, an extensive conglomerate of computation, analysis of algorithms, programming languages, program design, software engineering, computer hardware, computer networks and problem-solving skills. An Engineering aspirant with an eye and heart for these is sure to make his/her way to excellence in the arena. Computer Science and Business Systems is an emerging discipline that aims at addressing the hard-core

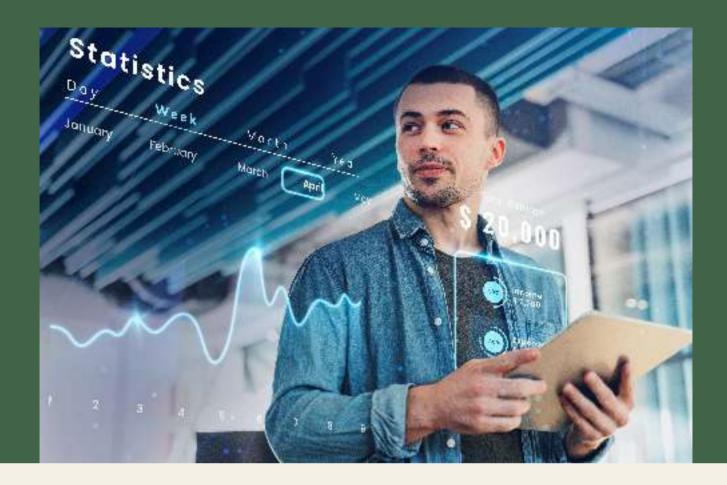
aspects that etch the neural schema of a business. Having in mind, the luminous future this specialization propounds, we have pioneered to offer this course among very few premier institutions in Chennai that do.

### Why to pursue this course?

The CS & Business Systems Engineers would be the choice of professionals to analyse, identify and address all the critical hardware and software problems that could potentially hamper a business in technological, scientific and social context.

The fascinating part of this course is that it pulls in an interdisciplinary approach encompassing bioinformatics, electronics, operations research,







computation, business administration, hardware architecture & software development, offering a spectrum of hues to cherish while learning. The course is an academic marvel that widens the scope for creativity, innovation and analytical ability while subduing few conventional subjects that have been existing in the radar of Engineering so far.

### **Career Scope**

CS & Business Systems is a hybrid course that fosterages professional eligibility to serve in diverse fields like business analytics, marketing, education, transportation, entertainment, banking, mass communication, social media, hospital management, supply chain management, etc. Appearing to be in limited number though, the businesses would rate these professional graduates higher over the other conventional disciplines of Engineering for the specialized acumen and agility it fosters through the course of education to perceive and handle business systems holistically in the light of Computer Science and the job titles that will prefer and potentially hunt for the niche include

- 1. Software Developer
- 2. Testing Engineer
- 3. Business System Analyst
- 4. Technical Support Engineer
- 5. IT Technical Content Developer
- 6. Business System Architect

### LIBRARY

# Abode of silence that speaks volumes

he College has a spacious Central Library that accommodates a collection of more than 44,000 volumes in relevant disciplines, besides e-books. The Library also subscribes to a number of professional journals in their electronic version (e-journals). Qualified professionals extend help to the learners and faculty members in optimally using the library resources.

Being a repository of knowledge and information as well as entertainment, the Library contributes to achieving the College's mission of learner development. The faculty members and learners help the Library in the process of selecting, acquiring, maintaining and organizing the resources that support the R & D of the College. By continuously involving the faculty members and learners in the development and periodic assessment of library resources, the various needs of the academic community are ably addressed.

Our Library holds Memberships in the American Study Centre, Chennai; British Council Library, Chennai and IIT-Madras Central Library.









### Student Residence

The College Hostel is indeed a home away from home for our learners. We are very much concerned about the well being and safety of our learners and therefore we provide a secured atmosphere with a view to making the residents feel welcome and comfortable. In fact, making the residents feel at home while in the Hostel is our goal. The Hostel rooms are spacious, properly ventilated and adequately furnished. Learners have

easy access to study tables, Internet facilities, etc. We maintain high standards of hygiene throughout the premises and take all the necessary measures to ensure that the learners have a pleasant experience throughout their stay in the Hostel. Importantly, we also have well-furnished separate Hostels for women and men. They are under 24/7, CCTV-enabled security.



### Commuting

The College is well connected by road and rail networks. Suburban trains are operated from the Central Railway Station to PTMS 'E' Depot Railway Station, located barely 1 km away from the Campus. The schedules of these trains are such that learners can reach the College on time in the morning and conveniently reach home in the evening. The College is also well served by MTC buses from Avadi and Muthapudupet.

Besides the public transport, the College also operates its own fleet of buses to ferry learners from different locations of the city to reach the College and back.







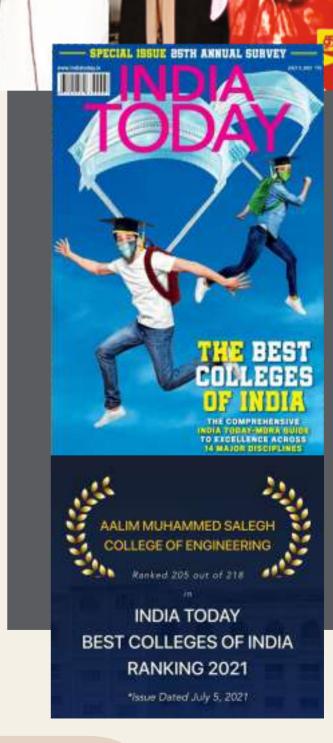
Ms. Priyadharshini from 3rd year CSE Department has won First Prize in District wise Speech Competition and received a cash award of Rs.20,000 from our Honorable Chief Minister Thiru M.K. Stalin.

### **Achievements**

### Awards & Achievements

- ★ Intellectual Property India, Patent Certificate, 2022
- ★ Educational Excellence Award, 2021
- ★ Moulana Abul Kalam Azad National Education Award, 2019
- ★ Best Researcher Award, 2019
- ★ Longest Power Strip (50 Sockets) Guinness World Record, 2018
- ★ Best Engineering College Award 2017
- ★ World ROBO RACE Championship 2016









### GUINNESS WORLD RECORD



### **Survey Report**

The official attempt for Guinness World Records "Longest Power strip (number of sockets)" was constructed and demonstarted by M.Mohammed Nawaz, III Year ECE, Aalim Muhammed Salegh College of Engineering on 11-10-2018. The longest powerstrip has 50 sockets , 26 three pin outlets and 24 two pin outlets. The construction , demonstration and testing of longest power strip was witnessed by C.MOHAN GOPU I.R.S, Deputy commissioner of customs (Export), custom house, Chennai-1 and M.RAJAGURU, Village administrative officer, Muthapudupet, Chennai-55 and the output at each socket of the longest power strip was witnessed and surveyed by

### The technical specifications of the Longest Power Strip is given below.

Physical Length - 3 metre

Number of sockets - 50 sockets (15 Ampere)

Height - 3 cm

Width - 6 cm

Voltage level measured at each socket: 230 V

Test Lamp measurement done at each sockets



# Graduation DAYS











Receiving Award in PALS 2022-2023 Valedictory Function Venue: TTJ Auditorium. IC&SR.IIT Madras

Dr.V.Komakoti Director, IITM (left), Dr.R.Velraj Vice Chancllor, Anna University (Right), Mr.Sabyasachi, CEO L&T EduTech

### Pan IIT Alumni Leadership Series (PALS)

PALS is an educational initiative of Alumni of all IITs, supported by IIT Alumni Industry Interaction Centre (IITAIIC) and IIT Madras Alumni Charitable Trust (IITMACT) for the benefit of students of selected engineering colleges in Tamil Nadu and its offer a year long program with various activities for the students, faculty and management of Engineering Institutions.

Since 2018, Aalim Muhammed Salegh College of Engineering is a Partner Institute for PALS and participated in many events and benefitted.

PALS conducts various events through out the year like, campus lecture series, Theory to Practice Lectures, Live web streaming (T2P), Educational summit, FDP, Industrial visit to faculty members and students, residential workshops, Innowah, Research at IIT Madras, Industry Internships.

### Milestones:

- Award of Excellence
- Responsive Aligned Proactive Interactive dedicated Partner Award
- Second prize in Campus Lecture Quiz
- 4-Sparking Star awards.





### AMSCE Incubation Cell

#### Vision:

 To craft a proliferative and inclusive ecosystem to nurture Entrepreneurship, Innovation & Business ideas to brace economy of individuals and the Nation.

#### Mission:

- To foster innovation, technology and business by channelizing the interest and creativity of stakeholders viz., students, alumni, faculty members and seeking potentials.
- To act as an adjunct in facilitating essential operational flow at various levels of conversion of an idea into a Start-up through resource networking.
- To motivate potential talents to carry forward research and development despite several limiting factors that lie in the purview of the incubation cell.

AMS Incubation Cell is a judicious off shoot of the 33+ years of our legacy in providing quality education at nominal fee with a compassionate motive and fostering talents in multiple disciplines viz., Engineering &Technology, Allied Medical services. Arts & Science and Architecture to build a better society and Nation at large. Our Incubation Cell aspires to bolster up the seekers' meticulous forage in pursuit of translating their innovation into reality. We commit to emulate a cosmos to mitigate potential stumble blocks via sensitization on the know-hows and whereabouts of funding, legalities, Government interactions, Marketing strategies, out-reach initiatives, alignment with the Global Sustainability goals, orientation on Patents and Intellectual Rights or anything that comes under our regimen to uplift the Entrepreneurial acumen of the stakeholder.

Statutory details - like any Act under which it operates

- 2. the name of the founding member, (if need be)
- 3. Is it a no-profit initiative?
- 4 activities
- 5 facilities
- 6. sectors/domains catered to
- 7. support offered
- 8. govt aids / MoUs / partnerships
- 9. investors/sponsors/angels
- 10. contributing businesses

Projects nurtured @ AMS Incubation Cell

### I. FACULTY STARTUPS

Asst.Prof. Ms Suberiya Begum.S, Dept of CSE, AMS College Of Engineering



### www.globescitechnologies.com

Globe Sci Technologies is a dynamic and innovative company that offers IT & Engineering Solutions and Technical Consultancy.

#### II. ALUMNI STARTUPS

### Mr Mohammed Aadil. H Abdur Rahman. S

Directors of Ifelse Techsmart Solutions Pvt Ltd.



### www.ifelsetech.com

Ifelse Technologies specializes in IT and ITES services, providing high quality services for Enterprises using Open-Source Solutions.

### Ahamed Riyas A,

Dept of MCA-2015-2018 Head & Managing Director



### www.sypatree.com

Sypa Tree is an all in one digital marketing service provider in chennai with professional expertise in social media marketing, search engine marketing, content & copywriting, search engine optimization, influencer marketing and like Marketing Partner services to businesses.

### Ms Poornima.T.M,

Dept of IT, Founder & CEO



#### penthusiasts.com

Penthusiasts is a 6-year-old Content Marketing Agency bootstrapped by Poornima in 2017 to offer quality Content Services for businesses worldwide. They help funded start-ups, IT Services Companies (Web 2.0 & Web 3.0), Multinational Companies, B2B Businesses, D2C Brands and B2C businesses build diverse forms of Content across internet platforms. Website Content, Blog Content, Articles, Listicles, Press Releases, Ghost Writing, Landing Pages, Emailers, Flyers, Brochures, Social Media Content Creation & Management, Thought leadership content, Product Descriptions & A+Content some of their offerings.

### Ms Karthiga Ganesan

Founder, The Grafician & The Kreativ Corp



### www.thegrafician.com

The Grafician is a new-age digital marketing and design company, where an enthusiastic pack of marketing strategists yearn to lead their clients to become proud market leaders.

### **Muhammed Ilyas**

CEO - Altsense



### http://www.altsense.co.in

AltSense caters to Training and Product Development of various Industry 4.0 fields like IoT, Artificial intelligence, 3D Printing and Robotics; Web & App Development; Digital Marketing & Recruitment services.

### Ms Shamsiha,

Managing Director Dream One Studios



### dreamonestudios.com

Dream One is the next-gen FILM PRODUCTION, AR, VR & XR Tech company that crafts futuristic tech ideas that keep the vision of the industry reimagined, taking the entertainment industry to the next level with Augmented Reality zoos, Virtual theme parks, Holographic Shows and Virtual Reality.



# TRAINING & PLACEMENT

### Career Planning and Development Cell

The objective of the Career Planning and Development Cell is to extend training facilities to the student of Engineering right from their First Year of study. Besides technical aspects, the learners undergo orientation and training for soft skills. It is our resolve to enable the learners to acquire employable skills completely by the time they reach their Third Year of study. Generally, planning for placement is made well in advance at the beginning of the 7th Semester itself. Before the placement season begins, the learners would have undergone the required orientation. In addition to the conduct of regular programmes, the Cell also arranges for invited talks by external specialist consultants to impart learners with specific skills and attributes in such areas as quantitative aptitude, reasoning, resume drafting and such other finer soft skills.

Meticulous planning is done to enable the learners

to participate in the recruitment drive organized by CMM Level-5 Companies and subsequently place them at targeted companies such as Infosys, CTS, CSC, Ploaris, FSS, MRF, TCS, Accenture, Wipro, Syntel, Axles India, Amalgamation, Airtel, mcAmDOIS, Voice Snap, Johnson Lifts, Asahi India Glass, ETA ASCON, CMR-Toyotsu, SHI, Sutherland, Nokia, Siemens, Royal Bank of Scotland, India Pistons, Swan electric, NVH, Vortex Engineering, Arihant Duraplast, SSWL, Rane, etc.

The Cell has entered into MOU with the Sutherland Global Services for periodically imparting skill-based training components to all the members of the faculty, who in turn would pass them on to the learners and thereby further increasing their employability prospects.



COMPANY NAME	BRANCH	SALARY	SELECTED
M/s. AVASOFT	CSE / IT / ECE / EEE / MECH & CIVIL	5 Lakhs Pa	2
M/s. GLENWOOD SYSTEMS LLC	CSE & IT	3 Lakhs Pa	2
M/s. MOVATE TECHNOLOGIES (P) LTD	CSE / IT / ECE & EEE	3.6 Lakhs Pa	1
M/s. DUNAMIS MACHINES INTERNATIONAL (P) LTD	EEE / ECE & MECH	2.21 Lakhs Pa	18
M/s. SEVEN HILLS NATIONAL	CIVIL	2.16 Lakhs Pa	5
M/s.INDIA JAPAN LIGHTING (P) LTD	EEE/ECE & MECH	1.98 Lakhs Pa	47
M/s. APOLLO TYRE'S LTD	MECH	1.98 Lakhs Pa	6
M/s. JOST AUTOMOTIVE	EEE & MECH	1.98 Lakhs Pa	1
M/s. KONTACT CONSORTIUM INDIA (P) LTD	EEE & MECH	1.8 Lakhs Pa	9
M/s. VALLIMALAI GROUP	MECH	1.8 Lakhs Pa	2
M/s. AL HADEED MANUFACTURING & TRADING (P) LTD	ECE	1.8 Lakhs Pa	2
M/s. RUN SERVICE INFOCARE (P) LTD	EEE & ECE	1.56 Lakhs Pa	25
		TOTAL	120

### Memorable Events





























Our Engineering College football team won the Anna University Zone - 1 Football Tournament organized by Vel Tech Engineering College held on 07/12/2022.



Our college secured 1st Place in the VIT State Level Volley Ball Tournament



Our college secured 3rd Place in the Anna University Zonal Hand Ball Tournament



Anna University Inter Zonal Boxing Competition - Secured 2nd Place Anna University Inter Zonal Powerlifting Competition - Secured 2nd Place Dept of EEE 3rd YearA. Mohammed Thauqheer Khan



Department of EEE 3rd Year, Mohammed Arshath



Inter Zonal Boxing Competition Secured 1st Place Mohammed Arshath, Dept of Mech 1st Year



Our College Organized Anna University Zonal Volleyball Women Tournament



Colonel Jobee Philip addressing the NCC Cadets where in Trustee Administrator Shaik Athaullah, Principal Dr. S.Sathish, Indian Air Force officers Wing Commander P.K. Saha, Wing Commander R.Malik, HODs, Faculty Members, NCC Officer Mr.G.Vinoth Kumar.























# Distinguished Alumni

The Aalim Muhammed Salegh College of Engineering Alumni Association, established in 2005, has instituted the Dr. SM Shaik Nurddin Alumni Achiever Award under the four categories of Entrepreneurship; Corporate Career; Academic Research and Teaching and Development in Social Services. The Association gives away these awards during its Annual Reunion. In addition, the Alumni Association imparts expert advice, counselling, etc., to the new students as well as provides scholarships to the needy.

Rizwan Ahmed

Alumnus 2003-2007 Dept of CSE



Technical Solution Architect Master Card Australia

I'm highly grateful to my institution for making me into what I am today. The exposure and guidance that I got from my college shaped me at each and every stage of my education and it still does in my career too.

Sadakathulla .M.A.R

EEE/2018-2022/

Jr.enggineer In Eletrical Maintance At Tata Consultancy .through College Placement Drive.



To get placed in the most reputed MNCs has been my drive since ever I started pursuing my Engineering. And the dream came true through my Placement drive in my final year. My very first placement at TCS is one of the best moments of my

life I would cherish for ever. Thanks to my department and college for supporting my dream come true.

**Mohamed Mansoor** 

EEE/2018-22



Jr. Eletrical Maintence Engineer At Tata Consultancy.

To work at TCS as the first job could possibly be the wish of every Engineering graduate like me. The access to resources my college offered me throughout my course is the reason that I could upgrade my skillset and

be eligible for the career that I am pursuing now.

#### Mohamed Yaseen Jabarulla

ECE/2007-2011/ Research Schoor

linkedin.com/in/mohamed-yaseen-jabarulla-676b8556



I am proud to claim myself as a keen learner and the same has navigated me to pursue my Post Doctoral program now. Aalim Muhammed Salegh College of Engineering was the 1st stepping stone to my growth that I have been able to make in my

career. It was the place that motivated me to pursue higher education by instilling a strong sense of conviction to grow.



"The College while imparting education has also shaped me up in terms of character. That is, what one gets from the College are not mere academic inputs. It gives life skills, an important ingredient for leading a successful life."

**Er. Sibkhathulla** (2008-2012 Mechanical Engineering batch), currently Sr. Sales Engineer, Pioneer Oilfield Enterprises.



"The ambience of the College itself is a motivating factor....This serene campus with its greenery around, I would say, has definitely contributed to my studies. The kind of impetus I received during my UG here in this College made me pursue my PG (at the Anna University)." **Er.** 

**Md Thaherullah Sheriff,** Asst. Manager, EHS, Ethics & Compliance Dept., Flipkart Internet Pvt. Ltd. (2010-2014 Mechanical Engineering batch).

### **Adnan Ahmed**

Process Quality Engineer | Public Speaker | Social Worker



When it comes to success of education, I always see it as a collaboration of academics and personality building. And I am elated that I could pursue my graduation from my college that offered scope for both parallelly. I had enough and more

opportunities to excel in studies as well as strengthen my core personality by taking part in various events that were hosted in our college and in other inter-collegiate competitions. I thank my institution for giving me the right things to excel in my career.

"The one thing I want to highlight about the College is the sense of safety and protection it extends to students in general and particularly the girls. The prayer room is



another unique feature." Er. Mrs. Reshma - (CSE 2006-2010 batch) - is with the Cognizant Technology Solutions as its Associate.

"I am from Odisha. I must admit that initially I was a little

apprehensive as I was a student from outside the State. But, when I look back, I think I thoroughly enjoyed my stay at the College. I felt secure and



there wasn't any sense of isolation. A big plus to the College is its well-stocked library..." **Er. Ms. Manisha Gowda,** a 2012-2016 batch student, is working at the HP S of t ware Company, Bangalore.

"I passed out from the College in 2012. I was in the B.Tech. The College is as much serene in terms of environment as it is active. I really had a wonderful



time in the College. The faculties members were nice, the library was good and the whole experience was really beautiful." **Er. Mrs. Divya,** Income Tax Department, Chennai.

"My name is **Abdul Quadir** MD. I completed BE (CSE) in 2006. Subsequently, I did my higher studies including PhD in the Anna University. The



unflinching support and guidance I received from my teachers and College management is indescribable. As we enter a College from the School we would generally have a lot of apprehensions. When I set

my foot in the College, I too had the similar feelings. But, I must say the experience I received was a pleasant surprise. Teachers were as welcoming as the campus was. Classes were truly interactive and the labs provided me with uninterrupted access to tools and equipment. The College brought out the best in me and my peers and others shared the same feeling." Professor, VIT University, Chennai Campus.





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Spakest of Asilias Midseanand Sologh College of Englavering, Aradi, Melanamed United Shorth Ingred a Gold annual in the 7th India-Negal International Endocation General held in Pakkers, Nepal. On behalf of the Missagement of Asilias Melanamed Sologh College of Englavering, Atlay S Nega Sandolom, Sucretary & Corresponders, Asilias Melanamed Sologh College of Englavering parameter a price annual of Re. 48,000 to Melanamed Varia-Shorth for archiveing the gold media.









Admin Office:

### **Aalim Muhammed Salegh Trust**

"Nizara Bonanza" 813, Anna Salai (Opp. LIC), Chennai 600002 Phone: 044 2841 4999 / 2841 9229 / 2854 2277 / 98408 66558 E-mail: amstrust@yahoo.com / amstrst@yahoo.co.in

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