

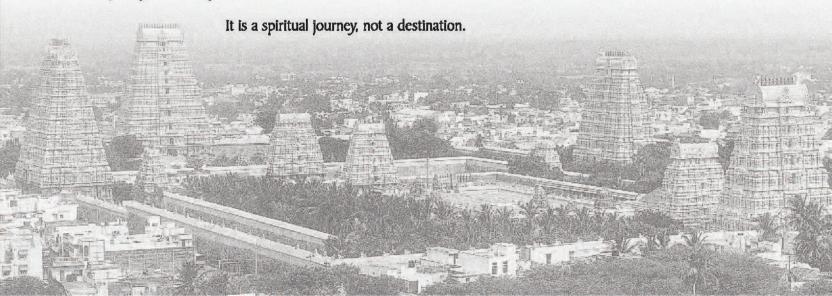


Tiruvannamalai, one of the most affluent and unspoilt unique location with an exceptionally good quality of spiritual life, has access to Chennai, Bangalore, Pondicherry, Trichy, at an equidistance of 180 kms. A lively, affordable, friendly city, is famous for its spiritual aura. We search for the secrets of life, all through our life. Those who have seen and experienced the Arunachala Hill, have found that its presence is all pervasive and revealing. Arunachala, the Mountain of Light, the Mountain without Beginning or End, the Mountain of Bliss, believed to be the physical embodiment of the great Dakshinamurthi, the Lord Shiva, in his benign avatar of Guru.

There is an antiquity of deep Mysticism which precedent, a popular parable, that people attain Mukthi (Self-realization) by merely thinking of this town, as there is a galaxy of temples and ashrams, which helps to learn the secrets of life in the spiritual way. It is recorded that there are as many as 360 Thirthas and 400 Lingams in the eight mile circuit of this sacred hill. Around the hill are many hermitages inhabited by holy personages of supreme spiritual eminence. Like how the birds are attracted by the trees which have fruits, many saints are attracted by Annamalai.

Ramana Maharishi is unique kind of saint who is appropriate for the 20<sup>th</sup> century. Unlike the traditional hindu saints Ramana is oriented in 'Who Am I?' teaching. He attained Nirvana and showed the way as Self-enquiry for self realization.

The holy place also attracts a sizable foreigners all through the year from places like USA, UK, France, Germany and many more. The historical places and picnic spots around the town, add lustre to the pilgrim centre. The people at Tiruvannamalai have a well-deserved reputation for friendliness and hospitality, so it's easy to feel at home here.





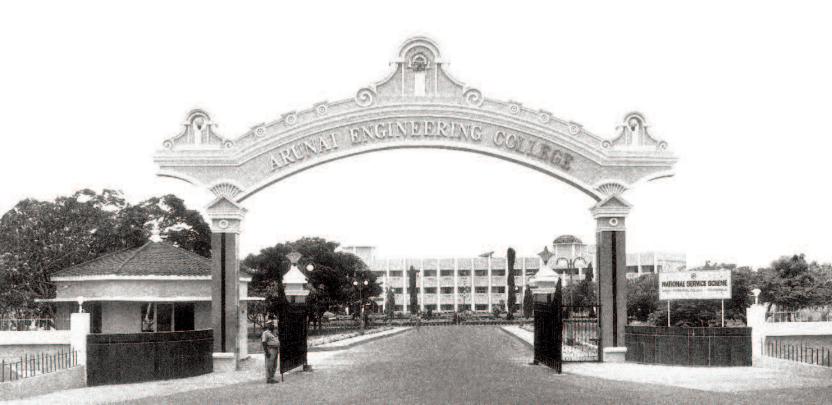
# **AEC - DOMICILE OF KNOWLEDGE**

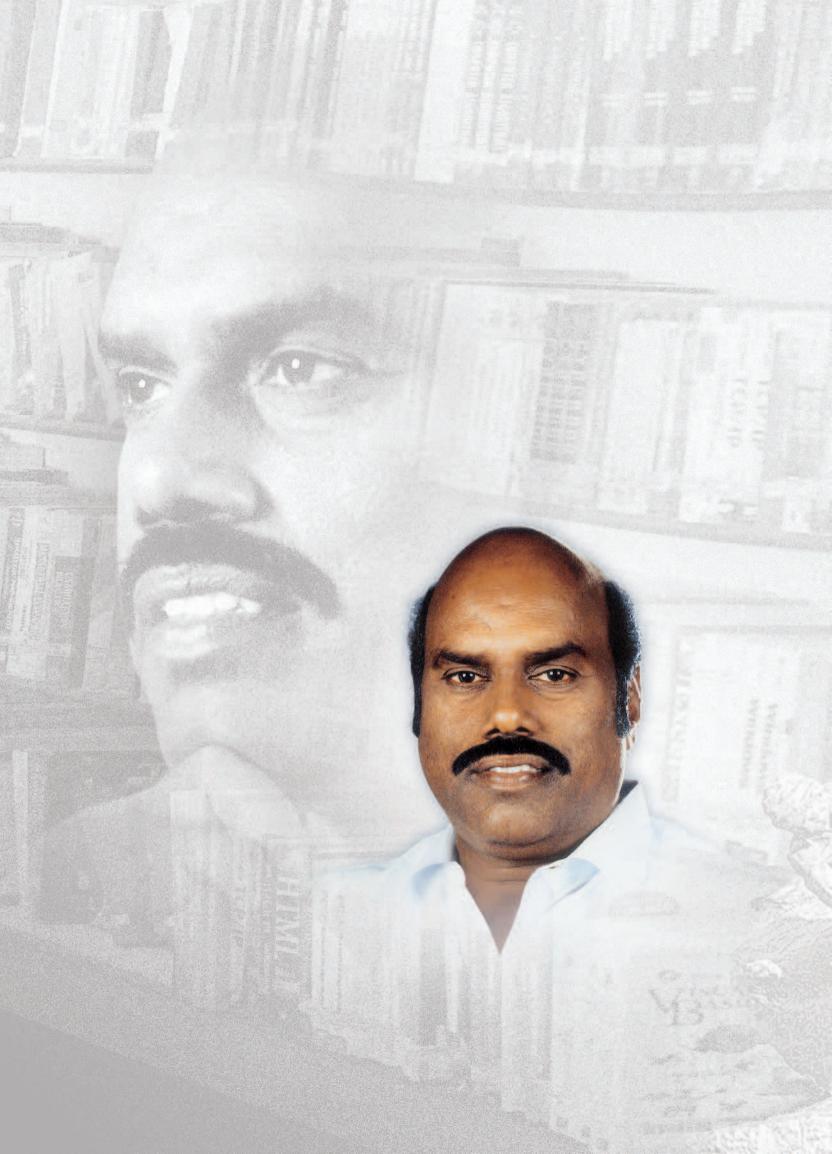
A rapidly changing world is one of the biggest challenges facing today's graduates. New technologies, new working practices and changes in tastes and fashions require graduates who are equipped with transferable skills, an excellent knowledge of their subject and flexible attitude. Arunai Engineering College provides student with the skills to succeed.

AEC, a co - educational institution was established in the year 1993, as an offshoot of Saraswathi Ammal Educational Trust by the Visionary Mr. E.V. Velu. The college is spread out on serene sylvan settings on the Chitoor - Cuddalore National Highway, providing a holistic environment, ideal for dedicated study with discipline, away from the hustle & bustle of modern cities.

The college covers a vast area of green and spacious 110 acres of land, with built-in area of 75,000 som, comprising Class rooms, Laboratories, Computing centres, Auditorium, Hostels, Library etc.

AEC is one among the leading institution in the country to have been awarded ISO 9001:2015 certificate in recognition of its world class quality standards. The facilities and infrastructure is much above the set pattern propounded by AICTE. The serene spiritual atmosphere at AEC helps an individual to discover Himself and the contribution he can make to the world.





# உழைப்பவரே உயர்ந்தவர்...



THIRU. E.V. VELU.,
Founder Chairman

Education does not lie in the quantification of knowledge but it lies in the quality of knowledge that helps to form the character of the students. Hardwork is the secret of the success.



THIRUMATHI. SANKARI VELU., Chairperson

I believe we owe our success to the efforts that go into the selection and training of employees, constantly improving curriculum, positive presence in the community, continuous focus on campus upgrades and a dedicated career service team that secures job placements for our graduates.



ER.E.V.KUMARAN.,
Vice Chairman

Our College is professionally managed and guided with meticulous care to be with conformance with all the potential standard by the board of the management.

AEC, a Co-Educational institution was established in the year 1993 as an offshoot of SARASWATHI AMMAL EDUCATIONAL TRUST by the founder Chairman Thiru.E.V. Velu. The college is spread out on serene sylvan settings on the Chittor-Cuddalore national highway, providing a holistic environment, ideal for dedicated study with discipline, away from the hustle and bustle of the modern cities. The serene spiritual atmosphere at AEC helps an individual to discover himself and the contribution he can make to the world.

Since 1993, ARUNAI racked up a number of outstanding achievements in its relativley long run and celebrated it's impressive silver jubilee.

# **COURSES OFFERED**

#### **UNDER GRADUATE**

B.E.

Mechanical Engg.

Electronics and Communication Engg.

Electrical and Electronics Engg.

Computer science and Engg.

Civil Engg.

#### B.Tech

Information Technology

Chemical Engg.

Bio Technology

#### POST GRADUATE

M.E.

Thermal Engineering

Structural Engineering

Computer Science and Engg.

Applied Electronics

Power Electronics and Drives

# M.Tech

Bio Technology

#### MBA

Master of Business Administration



#### ELIGIBILITY

# For B.E./B.Tech. Admission

# Candidates should have obtained marks prescribed below:

No		OC	ВС	MBC/DNC	SC/ST
7.	H.SC. ACADEMIC OR EQUIVALENT  Mathematics, Physics and Chemistry put together				
2.	H.SC. VOCATIONAL Vocational subjects with Mathematics put together	45%	40%	40%	40%

# Number of Appearances

Community	No. of appearences permitted for passing H.Sc.
SC/ST	3
Others	2

# Age Limit: As on 1st July

Physically Handicapped	: 26 years	Scheduled Caste/Scheduled Tribe	: 24 years
Tamil Repatriates from Myanmar and Srilanka	: 24 years	Others	: 21 years

- \* For Diploma Holders seeking admission for 2nd year (Lateral Entry) there is no age limit
- \* Candidates from other states will be considered as OC irrespective of their community for considering the minimum marks for the admission

# For M.E. Admission

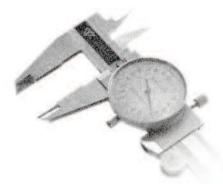
No	Courses	Qualifications	
1.	M.E Thermal Engg.	B.E/B.Tech. (Mech./Auto./Mfg./Produ./Indu.Engg./Mechatronics.Engg.)	
2.	M.E Applied Electronics	B.E / B.Tech. (EEE / ECE / E & 1 / Electronics / Instrumentations)	
3.	M.E Computer Science and Engg.	B.E / B.Tech. (CSE / EEE / ECE /E & 1 / IC / IT / CSE / Electronics)	
4.	M.E Power Electronics & Drives	B.E / B.Tech. (EEE / ECE / E &I / IC / Electronics / Instrumentations)	
5.	M.E Structural Engg.	B.E / B.Tech. (Civil / Civil & Structural Engg.)	
6.	M.Tech - Bio Technology	B.Tech. (Bio Technology / Chemical Engg.)	

## For MBA Admission



#### DEPARTMENT OF MECHANICAL ENGINEERING

Mechanical Engineering plays a vital role in manufacturing and technological advancement. It is arguably the broadest of the main Engineering disciplines and the department equips the students with analytical depth in a wide range of Engineering subjects, balanced with practical experience and essential transferable skills.



The Department has made substantial investment in upto-date equipment in its laboratories and has enviable computing facilities. Research works are being carried out in
strength of materials lab on Fatigue Characterization of Aluminium Silicon Composites.



Among the departments, the mechanical department has the proud in providing Post Graduate program in CAD/CAM, which has efficient faculty members with specializations in Vibrations, Solar Engineering, Energy audit, Finite Element Analysis, Computational Fluid Dynamics, Thermal Engineering and CAD/CAM. The Department also extends consultancy, training and testing services to local industries and institutions.

A tool is but the extension of a man's hand, and a machine is but a complex tool. He that invents a machine augments the power of man and the well-being of mankind.

- Henry Ward Beecher

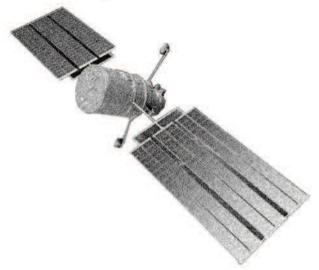






# DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGG.

Electronic communications has had a profound effect on modern society. In particular, the very rapid growth of personal communications, such as mobile phones and satellite communications, has changed the way we all work. The Department facilitates an interdisciplinary approach which is designed to meet the future needs of industry.



The Department involves itself in research activities and "Remote Sensing of Noise and Vibration using VLSI" is an on-going project under the TAPTEC scheme. The department is also a member of the IEEE and ISTE. It feels proud of conducting National and International seminars and, in the year 2003, a national level seminar was conducted on "Emerging trends in Communication & Networks". Apart from these seminars the

department also conducts Guest lectures, inviting various resource persons from all around the country.

The students are trained accordingly that they will gain in-depth experience with hardware and software systems and undertake a significant level of project-based work, which will help the students to compete effectively in the communications industry.

Education's purpose is to replace an empty mind with an open one.

- Malcolm S. Forbes







## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Electrical and Electronics is concerned with creating solutions to technologies that involve electrical science. Electronic engineering involves handling information, generally as electrical or optical signals, while electrical engineering is concerned with the use of electricity as a source of energy, In practice, there is considerable overlap and the department provides working knowledge in both disciplines.

The Department is proud to provide Applied Electronics and power Electronics as two Post Graduate programs. It has also undertaken research projects funded by AICTE and TAPTEC scheme.



The hybrid solar power electrical car has been successfully completed at a cost of Rs. 7 lakhs. The department continues to associate with Tamilnadu Electricity Board, Tiruvannamalai Electrical system for testing and calibration of Transformer and Instrumentation systems.

The students are trained to be a world class engineers to fit the needs of the industry and to make them capable of playing a key role. powering the technological advancement of our country and to transform India - a super power.



Nature and education are somewhat similar. The latter transforms man, and in so doing creates a second nature.

-Democritus







#### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

omputers have become indispensable tools within every area of life including industry, commerce, business, travel and home entertainment. They are in constant use in offices, manufacturing, hospitals and schools, and regulate complex networks such as air and rail. Its scope and influence is now being felt in all

aspects of life.

into a computer system.

CSE, is an academic discipline that is developing at an extraordinary speed. The department installs in each student a sound understanding of the fundamental of computing and the opportunity to develop a deeper knowledge. It provides the student with an understanding of mechanisms in the physical world, and of computational solutions to problems, in order that these two may be brought together



The faculty of the department, motivate the students to qualify for outstanding and rewarding paths in research, industry and commerce. The department prepares the students for

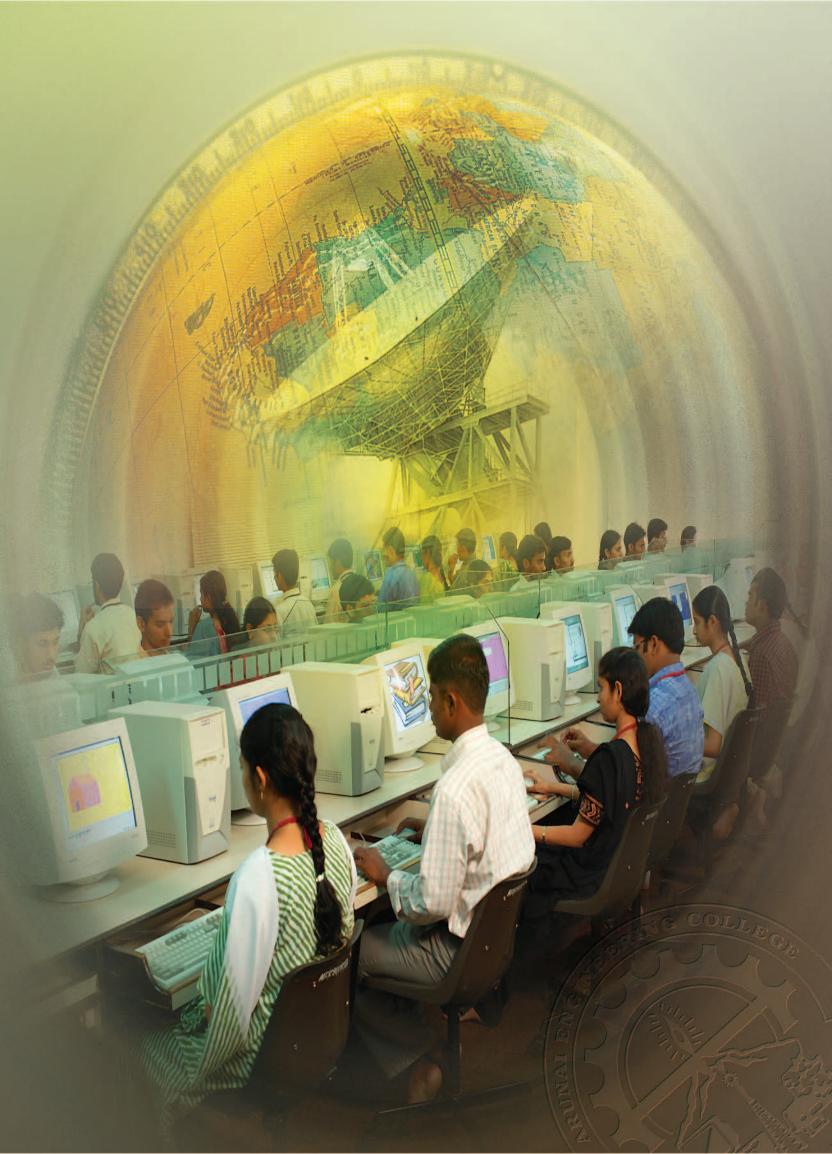
professional employment and progressive careers as Computer Scientists, and provides the fundamental knowledge needed for long-term professional growth and active life-term learning of new developments in the field.

Education is a social process ... Education is growth... Education is, not a preparation for life; education is life itself.









#### DEPARTMENT OF INFORMATION TECHNOLOGY



Computers have had a tremendous impact on every facet of our lives at home and work, in leisure and in communication. The Department focuses on Information and Communications Technologies and Society. While providing IT skills and knowledge, the department also incorporates the application of interdisciplinary theories, concepts and

The key objective of the department is to make the students acquire the ability to be responsive to new information technology requirements and to quickly respond to the ever changing requirements of the complex IT environment.

models of information and communications technologies.



The staff of the department strive to provide the students with skills in network engineering. The department, puts its efforts which involves systems, including information systems, and the entire life cycle of systems from initial conceptualization and specification of information and architectural requirements through system evaluation and redesign.



Education, in its highest sense, is conscious training of mind or body to act unconsciously. Ot is conscious formation of mental habits, not mere acquisition of information.

- William George Jordan







#### DEPARTMENT OF CHEMICAL ENGINEERING

E verything around us, is made up of chemicals, including ourselves. Chemical change has always been part of the universe, even before human beings evolved. Indeed, scientists believe that life began on earth as a result of complex chemicals reproducing themselves over billions of years.

Chemical Engineering, is concerned with the design and operation of processes for making a wide range of products on which everyone's standard of living depends. These include food, fuels, medicines, plastics and the basic materials for high technology industries. A chemical engineer takes most basic natural resources, such as petroleum, natural gas and minerals as well as basic agricultural products and through the use of chemistry converts these basic resources into very large number of useful products.

The Department imparts the professional engineering skills to translate it into industrial practice, once a chemical, biological or physical process has been successfully accomplished on the laboratory scale. It also arranges for guest lectures, which enriches the students' knowledge in all aspects, as experts from various industries are invited. Apart from the curriculum, students are exposed to gain practical knowledge through industrial visits and in-plant trainings.



On science, we can aspire to accomplish something... every discovery, however small, is a permanent gain









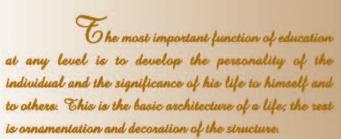
#### DEPARTMENT OF BIO-TECHNOLOGY

Bio-technology, draws upon the disciplines of Biochemistry, Microbiology, Genetics and Biochemical Engineering to make possible the production of products and services from biological organisms. People's lives have been influenced by biotechnology for centuries as a result of the use of microorganisms to produce food and drink.



The Department of IBT exposes students with the application of scientific and engineering principles to the processing of materials produced by biological agents to provide goods and services. It helps the students to discover how the science of microbiology can be applied to the world of industry.

The dedicated and dynamic faculty play a key role in imparting the knowledge of biotechnology to the students, which enables to improve the quality of our lives in relation to the environment, to fight disease by immunization, and to combat pollution.



- Grayson Kirk







#### DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering was established in the academic year 2008-09 with an annual in take of 60. The Department has a mission of providing a place with a good infrastructure by which the students will pick up the kind of knowledge and skills

is share the society with their basic needs of food fibre and shelter and thereby they will become the nation builders. The Department has the state of the art facilities with a prime motive of imparting quality education to facilities and mould the young minds for their bright future.

The Teaching methodologies enable the students to understand the basic concepts for future innovation. The Department is equipped with latest instruments/equipments and software's. The Department is in proud possession of well qualified and enthusiastic staffs with a rich experience in teaching, consultancy and extension services.



- Democritus







# Management STUDIES



- LeaderShip ◆ Potential
- Education Achievement
- Management ◆ Degree ◆ Career

# DEPARTMENT OF MANAGEMENT STUDIES

Master of Business Administration (MBA) degree offers many professional as well as personal benefits. Whether you work in technology, finance, management, marketing, accounting, statistics or manufacturing, an MBA degree will create the opportunities for greater responsibility, career growth, and increased financial reward.

The modified MBA course curriculum is so effective in terms of execution skills, integration ethics, commercial accountability, corporate citizenship, communication, leadership skills and global competitiveness in management education. The method and practice of teaching include so many important things like offered elective courses, joint degrees, library, Co- curricular activities for diverse learning experience, and projects on national & international.

For the welfare of students, Industry experts are being invited as mentors, visiting faculties, guest speakers for research collaborations, and offering live projects-over and above industry internships—which gave students the opportunity to learn in a real - world setting under the guidance of seasoned professionals.

In the past, MBA degree was an unattainable dream even for the professional students with rural background. Today, it has changed a lot. AEC offers a world class managerial skills with exposure and hands on practice in latest computer software packages related to business administration and management.





# ARUNAI CENTRAL LIBRARY



#### LIBRARY - a treasure house

The Modern Central Library, is organised in such a way that it is relevant to the courses taught on the campus. The library is updated to a high standard offering modern and comfortable surroundings to study. It has a collection of 30,000 volumes and 10,382 titles on Arts, Science, Engineering, Technology and Management, with addition of the latest books and editions on the above subjects.



There are about 250 journals and magazines, both national and international on Science, Engineering & Technology. The library follows "Open Access System", adopting DDC ( Dewey Decimal Classification) Scheme.

The Digital Library enables students to acquire knowledge through CD-Roms, Video tapes, et.al and has also prescribed to number of on-line journal which are great boon to research scholars and technical pundits as it is also open till midnight.

#### **COMPUTING SERVICES:**



All students today need to use computers and networks as part of their work, whether to access information on the web, or to exchange e-mail with tutors and fellow students. The newly build IT Park provides the computing facility to the the campus which houses 750 computers with network and internet facilities. In addition to the central computing facility, the

departments also have their own systems for teaching and research.



#### **HOUSING SERVICES**

Moving away from home to study, is an exciting time in life. There are new friends to be made, new places to discover and the chance to develop many view interests.

College has four hostels in all. As a new entrant to the college, the first year are guaranteed a separate hostel (kalaingnar Mens Hostel). The Second year students are housed at Dr.A.P.J.Abdul Kalam Hostel, the Third year students at the New Mens Hostel and the Final year students at Thanthai Periyar Hostel.Girls have a private, secluded and secure hostel (Mother Theresa Women's Hostel).

A team of wardens and residential tutors take utmost care in providing the parental guidance. The Hostels are large enough to have a diverse feel with a great mixture of students - yet small enough to have a real community atmosphere.

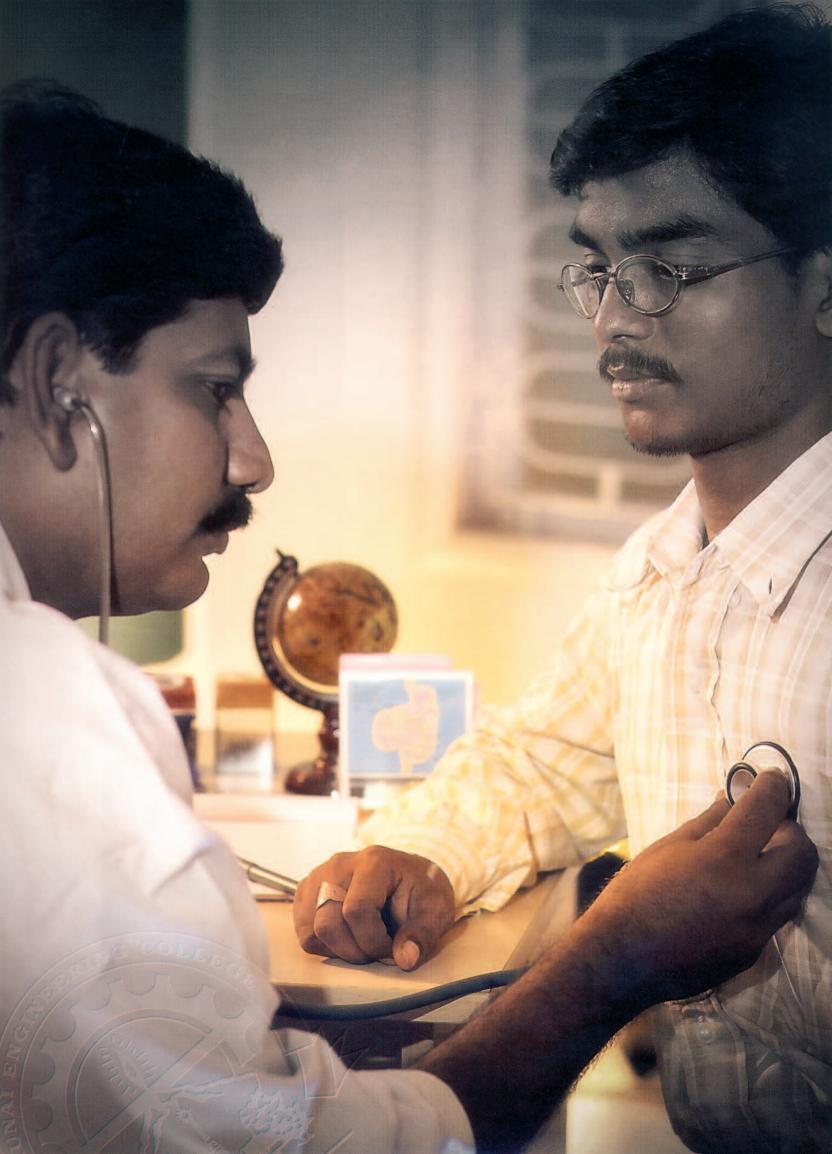
Food is necessary for any living organisms in the world. All the hostels are equipped with modern kitchens and communal dinning facilities of varying sizes, where hygenic and delicious food is served which would be frequently revised according to the taste and preference of the students. Along with the hostel inmates the day scholars are also provided with lunch.

The college plys busses for the day-scholar students from the residential areas in Thiruvannmalai, Gingee, Villupuram, Tirukoyillur, Arani, Polur, Chengam & Thandrampattu.









#### SUPPORT SERVICES

The college has many support services for the benefit of the students. To accomplish anything a sound body is required and to fulfill this, the college has a Health Centre, where treatment of any minor illnesses and comprehensive information about health related issues and treatment of any minor illness and emergency care are provided by Arunai Hospital.

Money - 'matters', and so every student is provided with a personal bank account and do have access to ATM, which is rooted in the college campus itself.

Even-though the technology has advanced it has not reached the common man, and realising that, apart from the facilities of telephone, e-mail, the college has got a Post-office in the campus to facilitate the students to connect their home.

Students need not travel long to purchase things, instead they can buy and shop their day to day materials in the Stationary shop inside the campus.

Body fitness is as important as Mental fitness and thus to help those students who want to maintain their physical health, college is facilitated with a Gym, where the students can work in the dawn and at dusk.







The college campus is enabled with Wi-Fi connectivity to access the internet to fulfil the students and faculties search needs. The coverage is not just limited to the classrooms, it extends to all the facilities within the campus premises.



# EXTRA CURRICULAR ACTIVITIES

In Addition to the academic programs, the students are encouraged to join in extra curricular activities like sports, NSS and the Cultural programs.

Sports are an important part of just about every society, every country, every part of our planet. The program engages students in studying biological and psychological influences of sport on individual. The bottom line is that, physical activity is essential for students, as it builds self confidence and can be an excellent group activity that fosters togetherness.

Cultural activities is sol important for a student and it has a significant impact, as it teaches responsibility, discipline and teamwork. It Promotes unity and understanding among students. The annual cultural extravaganza "AECOFEST", serves a platform for the students talents to change their dreams into realities.

National Service Scheme, aims at arousing social consciousness of the youth with an overall objective of personality development of the students through community service. A camp of 10 day duration is conducted every year in an adopted village on specific theme. It would develop youth to bring fruits of education and technology to reach the weaker sections of the society. Such program paves way for molding the minds of the students in serving the society.









#### COUNSELLING SERVICE

Everyone has problems at some time in their life and the counsellors are available to help at the time of stress. Difficulties may include issue such as worries about academic work, personal relationships, exam panic, anxiety and depression. Despite its apparent problem-centredness, Counselling also involves exploring ways of building on people's strengths.



#### LANGUAGE RESEARCH CENTER

English is fast becoming, the language of international communication in technological, scientific and business domains, as well as in the international media and arts. From business management to broadcast journalism, the critical and communication skills developed are in demand in all areas of modern life. It is increasingly important for those working in these international domains to understand the nature of English, as it is used in the world, to have a refined understanding of English as International Communication.

Students are trained to communicate in English and to develop their proficiency, through Computer Assisted Language Learning. Software' like English Mastery and TOEFL(simulated version) from the American Language Academy, USA are available for the students. Hi-Class II, a fully computerized network control system from Ikon Technologies. Taiwan, has been installed in the language research center which helps the faculty to monitor the activities of the students and assist them whenever required.

The LRC, has signed an MOU with the British Council, Chennai, and it offers the Business English Certificate (BEC) Course, which trains the students and at the end of the course, the students will receive a certificate from the Distant Learning Center, Cambridge University, UK. Students will develop a critical awareness of the English language, as it is functional across the globe and will be equipped with the necessary knowledge of how to use English for successful intercultural communication.

#### **BUREAU OF HIGHER EDUCATION**

The Bureau of Higher Education is an information bank on higher education both in India.

and abroad. For the benefit of the aspiring students, it organizes introductory seminars on TOEFL, GRE, GMAT, and GATE. In consultation with the Training & Placement Cell, it also explores the opportunities for higher studies in domestic and international organizations.



#### **INTERNATIONAL STUDENTS**

Aec is noted for the warm welcome and excellent facilities offered to its international students. Irrespective of nationality, students are attracted to Arunai, primarily because of its international academic reputation. But the college also has a reputation of offering an outstanding quality of student life.

Arunai, is among the most popular colleges in india because it invests not only in building



on academic excellence, but also in providing excellent facilities for students. As a result, students from many different countries decide to come to study in AEC. At present, college has students from Nepal, Burma, Srilanka and Iran. They play a vital role in the academic and cultural life of the college and help to make AEC, a truly International community. The college has

committed substantial resources to provide a range of specialist services to help international students.

Accommodation is available for all single overseas students.

#### RESEARCH ACTIVITIES



The college motivates students and faculty members to carryout research activities and project works with the emphasis on future trends. The college, in colloboration with the American Suppliers Institute, U.SA., has opened a Quality Improvement Center by Taguchi Methodology. Besides, the college regularly carries out the TAPTEC, MODROB projects of AICTE, NewDelhi.

Innovative and challenging student projects are encouraged and best project in each department is duly awarded in a fitting manner. Dr.Ramamurthy Endownment Award, established by Dr.R.Natarajan, Chairman AICTE is given to the best Mechanical project of the year, while Communication Award established by Dr.Ashok JhunJhunwala of IIT, Chennai is given to the best project in the ECE Department.

#### **MOU'S SIGNED**

The college has signed MOU with leading institutions and professional bodies to endance the Research & Development activities.

- \* CAP (Anna University)
- \* CISCO (Networking Academy)
- \* British Council, Chennai (BEC Course)
- \* IISC, Bangalore
- \* Mysore University (Research Activities)
- \* USEFI
- \* ASI, USA
- \* .NET(Mirrosoft)
- \* MCP, MCSE, MCAD (Microsoft)
- \* CII Confederation of Indian Industry

The range of careers open to graduates is an ever widening one, with employers seeking capable, articulate and well motivated graduates who can make an effective contribution to their organization. The training and placement cell offers help to all the students and provides a wide-ranging program of career-related events. Students are encouraged to use the service from early in their course of study, that will match their skills and aspirations. Our students are placed in many leading companies like INFOSYS, POLARIS, HCL, GE, ADDISONS, WIPRO, TVS, RANE, CAVIN KARE, TATA, BHEL, MICROSOFT.

The college is committed in preparing students for an emerging and changing business scenario. Students are provided with and experience that will not only equip them with the knowledge, skills and abilities for a future career, but also a practical professional experience through the in-plant training program which is a part of the curriculam in our college. The training and placement department organizes in-plant training for the students besides arranging for several industrial visits.

In this era of Technological advancement, the education a student receives must be focused towards the needs and requirement of the Industry. To achieve this, our College has become a member of the





# ... Dignitaries Visited ...

#### Dr.APJ. Abdul Kalam

Former His Excellency President of India.

#### Dr.M.Karunanidhi

Honourable Chief Minister of Tamil Nadu.

#### Mrs. Rajani Rai

Governor of Puducherry.

#### Dr.E.Balaguruswamy

Vice-Chancellor, Anna University.

#### Dr.R.Natarajan

Chairman-AICTE, New Delhi.

#### Dr.V.N.Rajshekhran

Vice-Chairman - UGC, New Delhi.

#### Mr. Shin Taguchi

President, American Suppliers Institute, U.S.A.

#### Mr.Subir Chowdary

Vice President, American Suppliers Institute, U.S.A.

#### Dr. Ashok Jhunjhunwala

Professor-IIT, Chennai.

#### Prof. S.N. Hegde

Vice Chancellor, University of Mysore, Mysore.

#### Dr.D. Viswanathan

Vice-Chancellor, Anna University.

#### Thiru.A.Raja

Honourable Union Minister of Comm. & IT.

#### Dr.Kentaro Toyama

MD.Microsoft Research India.

#### Thiru.V.Vaithilingam

Honourable Chief Minister of Puducherry.

#### H.E.Shri M.K.Narayanan

Governor of West Bengal.

#### H.E. Shri E.S.L. Narasimhan

Governor of AP.

#### H.E Shri P.S.Ramamohan Rao

Ex. Governor of TN.

#### Mr. Andrew Simkin

U.S. Consulate General, Chennai.

#### Ms. Jennifer McIntyre

U.S. Consulate General, Chennai.

#### Dr.A.P.Mittal

Member Secretary, AICTE.

#### Mr. Bharat Joshi

British Deputy High Commissioner, Chennai.







Our achievements are staged by this celebrative milestone in the journey of our vision since 1993.

