Taking into consideration the importance of Technical Education, the eminent leaders among the Muslim community laid the foundation for the establishment of various Technical Educational Institutions in and around Tiruchirappalli, together or separately with Arts and Science Institutions. The Technical Education emphasizes the understanding and practical application of basic principles of science and mathematics, rather than the attainment of proficiency in manual skills that are properly the concern of vocational education. The goal of technical education is to prepare graduates for occupations that are classified above the skilled crafts but below the scientific or engineering professions. People so employed are frequently called technicians.

The term Technical Education is generally adopted to designate the special training of persons in the arts and sciences that underlie the practice of some trade or profession. In its widest sense, technical education embraces all kinds of instruction that have direct reference to the special training which helps to qualify a person to engage in some branch of productive industry.¹

The changing conditions of production, mainly through the machinery, increased the demand of special training for those who were engaged in industrial production. The prevalent system of education was not satisfied the requirements of industries. Hence to satisfy the demand in industries motivated the persons who were engaged with Arts and Science Institutions to go far a new endeavor called “Technical Education”. In India, there are several engineering colleges imparting undergraduate and graduate courses in engineering, applied engineering and sciences.² The Indian Institutes of Technology (IITs) and the National Institutes of Technology (NITs) are the renowned and reputed institutes

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² S.N. Mukerji, *Education in India Today and Tomorrow*, Acharya Book Depot, Baroda, 1964, p 4
in the country. Some other institutions that are on par with them include: BITS-Pilani, Anna university, Jadavpur University (JU) Kolkata, Delhi College of Engineering (DCE) Delhi, Bengal Engineering and Science University, Shibpur and Punjab Engineering College (PEC) Chandigarh.

The Indian Institute of Technology (IITs) has fifteen centers located in Kharagpur, Bombay, Madras, Kanpur, Delhi, Guwahati, Roorkee, Gandhinagar, Hyderabad, Jodhpur, Bhubaneswar, Ropar, Patna, Indore and Mandi. Also included in this list is Indian School of Mines, Dhanbad and IT-BHU.

The National Institutes of Technology (NITs) are premier colleges of engineering and technology education in India. They were originally called Regional Engineering Colleges (RECs). In 2002, the Ministry of Human Resource Development, Government of India, decided to upgrade, in phases, all the original 17 Regional Engineering Colleges (RECs) as National Institutes of Technology (NITs). There are currently 20 NITs, the latest being NIT, Agartala. The Government of India has introduced the National Institutes of Technology (NIT) Act 2007 to bring 20 such institutions within the ambit of the act and to provide them with complete autonomy in their functioning. The NITs are deliberately scattered throughout the country in line with the government norm of an NIT in every major state of India to promote regional development. The individual NITs, after the introduction of the NIT Act, have been functioning as autonomous technical universities and hence can draft their own curriculum and functioning policies.\(^3\)

Anna University was established on 4 September 1978 as a unitary type of University. It offers higher education in Engineering, Technology and allied Sciences relevant to the current and projected needs of the society. Besides promoting research and disseminating knowledge gained there from, it fosters cooperation between the academic and industrial communities. College of

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Engineering, Guindy\(^4\) (CEG) (1794) Madras Institute of Technology, Chrompet (MIT)(1949), Alagappa College of Technology (ACT)(1944) School of Architecture and Planning (SAP)(1957) are the nucleus of Anna University, situated in the southern part of the city of Madras (Chennai), the University's main campus extends over 100 hectares.

The Madras Institute of Technology at Chrompet constitutes the second campus of the University which extends over 20 hectares. Both the campuses have a variety of buildings serving the various needs of the University community. A third campus extending over 80 hectares is located at Taramani near the Instronic campus, Adyar. The Bioprocess Laboratory donated by SPIC is located at present in this campus and a few more centers of advanced studies, like National Institute of Fashion Technology (NIFT), Sugar Research Institute, Mechatronics Institute, Entrepreneurship Development Park, and Convention Centre will also be housed there in future.\(^5\)

Since December 2001, it has become a large, highly renowned affiliated University, having brought into its fold about 225 Self-financing Engineering Colleges six Government Colleges and three Government-aided Engineering colleges located in various parts of Tamil Nadu State.

Tiruchirappalli has the pride of being the seat of one of the Regional Engineering Colleges in India. The Regional Engineering College at Tiruchirappalli was founded in 1964 as a co-operative venture between the Government of India and the Government of Tamil Nadu to cater to the country's need for manpower in technology. Besides this college, there are one Government Polytechnic, two aided polytechnics, four self-financing polytechnics, wood craft institute, three government industrial training institutes and 23 private industrial training institutes in the District to cater to the needs of technical education and industrial training of the District.

\(^4\) It was born as a survey school, in May 1794 founded by Micheal Topping; The Civil Engineering school in 1858 and elevated as as College of Engineering in 1861.

\(^5\) Chitrasen, *Vocational and Technical Education in 21\textsuperscript{st} century*, Alfa Publication, New Delhi, 2007, p 24
Engineering Colleges (Except the REC) and Polytechnics are under the administrative control of the Director of Technical Education. The industrial training institutes are controlled by the Director of Employment and Training at the state level. For the administration of the government I.T.I.s and the academic and technical control of private/self financing I.T.I.s, there are Regional Deputy Directors of Employment and Training, Tiruchirappalli is the Headquarters of a Region comprising the Revenue District of Tiruchirappalli, Thanjavur, Nagappattinam, Tiruvarur and Cuddalore.

Apart from regular technical educational institutions, there are also departmental training centres to provide training to the personnel of the respective departments. The notable among them in the District is the Irrigation Management Training Institute run by the Department of Public Works.

**MIET Polytechnic College**

The Technical Institutions which were started by the prominent Muslims in Tiruchirappalli played a crucial role for the economic development of the people of Tiruchirappalli region particularly among the Muslim Community. The first and foremost Technical Institution was started by Er. A. Mohamed Yunus, with the financial support of the members of Anwarul Muslimeen Association.

Mohamed Institute of Education and Technology Society (MIET) Polytechnic College was established in the year 1984, in Tiruchirappalli. The Society is registered under the Tamilnadu Society’s Registration Act, 1975 at the initiative of Er. A. Mohamed Yunus, an industrialist - cum - educationalist as the Founder Secretary and S.M. Hassan Mohamed, a philanthropist as the Founder President with an objective to promote the cause of higher education. In a short span of time, it has registered an impressive record of academic performance. It constantly strives to reach better standards of teaching for effective student learning and also carries out several co-curricular and extra-curricular activities.

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for developing life-skills in students. M.I.E.T. is approved by the Government of Tamil Nadu. All the courses run by the College are approved by the All India Council for Technical Education, New Delhi and the Government of Tamil Nadu, Chennai. It is recognized as a Muslim Minority Institution under the Constitution of India.

**Vision of College**

- To offer world-class educational, research and training programmes leading to recognized diplomas in Engineering and Technology.
- To impart a high technical and supervisory skills.
- To launch programmes for promotion of socio-economic standards of public through extra-mural programmes.\(^7\)

**The Management**

The overall management of the college is under the direction and control of the Governing Council constituted with eminent educationalists, academicians and professionals as members.

During the year 1984-1985, M.I.E.T. Polytechnic was started in Jamal Mohamed College, Trichy. On 25-12-1986, Foundation Stone for Laboratory was founded by Honorable Minister, R. Sounder Rajan. During 1984-86, Mr. K. A. Abdul Samad was the Principal and Mr.Manivashagam held the office from 1986-1988. M.I.E.T. Polytechnic College had been shifted from Jamal Mohamed College to M.I.E.T. Campus, Gundur in 1989. The Hydraulics Lab was opened by Honorable Minister, Thiru. K. N. Nehru on 02-03-1990. On 02-03-1990, Automobile and Material Testing Lab was opened by Honorable Minister Thiru. Anbil.Dharmalingam. On 02-03-1990, Thermal Power Lab was opened by Prof. E. P. Mohammed Ismail, Former Principal of Jamal Mohamed College. On 02-03-1990, Electronic Lab was opened by Honorable Minister, Thiru K. Chandra Sekar. On 02-03-1990, Electric and Electronic Lab was opened by Mr E. S. M. Pakeer Mohamed M.P.

\(^7\) Souvenir, Silver Jubilee Year, MIET institutions, 1984-2009, Tiruchirappalli, p. 5.
Initially the M. I. E. T. Polytechnic College offered courses like Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Computer Engineering and Automobile Engineering. At present it extended to Computer Engineering and Automobile Engineering.\(^8\)

**Profile of the Departments**

**Department of Civil Engineering:** The Department of Civil Engineering was started in the year 1984. The Department has a team of enthusiastic staff members for promoting the industrial and flexible skills of students.

It has the following laboratories with the latest equipment and instruments.

- Surveying Laboratory
- Strength of Materials and Testing laboratory
- Hydraulics Laboratory
- CAD/CAM Laboratory

**Department of Mechanical Engineering:** The Department of Mechanical Engineering was started in the year 1984, with qualified and experienced staff members. The Department has well established laboratories.

The following lab facilities are available in the Department

- Thermo Dynamic Laboratory
- Automobile Laboratory
- Workshop Laboratory
- Strength of Materials Laboratory
- Fluid Mechanics and Machinery Laboratory
- Metrology Laboratory
- In addition to the above the Department created new CAD/CAM Laboratory

\(^8\) Ibid., p. 12.
Department of Electrical and Electronics Engineering: The EEE Department of the College was started in 1984 and the first batch turned out in 1987. The Department has devoted and capable faculty members with specialization in various areas of Electrical and Electronics Engineering. The Department has extensive Laboratories. The Department arranges industrial visits for students to expose them to the industrial practices. Seminars, Workshops and Symposia are organized every year by the Department to update the students with the latest technological developments and help them to enjoy better career opportunities.

The following lab facilities are available in the Department

- Electric Wiring Laboratory
- Motor Winding Laboratory
- Electrical Machines Laboratory
- Power Electronics Laboratory
- Instrumentation and Control Laboratory
- Electronic Devices and Circuits Laboratory

Department of Electronics and Communication Engineering: The Department of Electronics and Communication Engineering was established in the year 1993. The Department has extremely devoted staff with diversified areas of specializations. It has ten well equipped laboratories. The Department has been encouraging the students to deal up with the advancement in the field of ECE.

The following lab facilities are available in the Department

- Basic Electronics Engineering Laboratory
- Microprocessor and Microcontrollers Laboratory
- VLSI Laboratory
- Analog and Digital Laboratory
- Electronic Circuit and Components Laboratory
- Electrical Circuit and Instruments Laboratory

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Department of Computer Science and Engineering: The Department of Computer Science and Engineering was started in the year 1993. The course was started with fifty students in the first year. This department has reached its peak.

The Department is equipped with the following laboratory facilities:

- Network Laboratory
- Programming Laboratory
- Multimedia Laboratory
- Web Designing and Programming Laboratory
- Computer Installation and servicing Laboratory

Department of Automobile Engineering: The Department of Automobile Engineering was established in 2001 with an intake of forty students. The first batch was turned out in 2004, with high profile achievers.

Department of Chemical Engineering: The Department of Chemical Engineering was set up in the year 1995. Due to lack of placement, the College could not continue the course.

Department of Physical Education

The activities and facilities provided by the Department of Physical Education help students to be physically fit and mentally sound. The College has spacious football ground, volley ball court, indoor and outdoor games. It encourages students to participate in sports and games activities and participate in competitions. Preference is given to sports students who win in state and

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10 Ibid., p. 42.
11 Souvenir, Silver Jubilee Year, MIET institutions, op.cit., p. 23.
district level competitions. Sports Scholarships are given to the students excelling in sports events.

Infrastructure and other facilities

Hostel

- Separate Hostels for boys and girls in an eco-friendly environment.
- Hostel for girl students available in the City. Exclusive bus services are provided to them.
- Healthful and hygienic food.
- General stores with STD /ISD phone facilities.
- Mineral pure water.
- Garden with fresh air for relaxation and indoor games.
- Playground for outdoor games.
- A 24 hour medical care with dedicated doctors.

Library

- The M.I.E.T. has Library with good collections of Journals, Books, Periodicals, and CDs etc. The library is fully computerized. It is manned by Librarian and Library Assistant.
- There is also a good collection of educational audio tapes. A Reprographic section functions within the library for the benefit of staff and students.

Transport

- To facilitate the students coming from remote areas, the M.I.E.T. College provides transport.
- Buses are running through various routes like Uraiyyur, Chatram, Palakarai, K.K.Nagar, Thuvakudi and Anna Nagar etc.

Masjid (Prayer Hall)

- There is a spacious Masjid, centrally located, where regular five time prayer and the Friday Jummah are held. Muslim students and staff are
encouraged to attend the scheduled prayers in the Mosque when they are in the campus.

- A well ventilated separate prayer hall for girl students.

**Spiritual Functions**

The M.I.E.T. College celebrates various functions like Meeladi Nabi, Islamic Women’s Awareness Camp etc, and every year. Through these functions, the Institution strengthens and brings together the needy people from various localities irrespective of their religion, caste etc. Special Guest Lectures are provided during these functions to create social responsibilities among the people. To uplift women, the Institution conducts Women Awareness Programmes every year. These activities help to remove the veil of ignorance and enlighten the minds of people.

**Student Service Centre**

A Student Services Centre functions within the campus providing STD, ISD and Local Telephone and Xerox facilities and supplying stationery items, record books, toiletries, eatables etc.

**Training and Placement Cell**

The Training and Placement Cell of the College has been very active in developing their soft skills by conducting discussions and mock interviews on the need based areas by qualified and renowned faculty. Resourceful industrial persons are invited to deliver Guest Lectures on various technical areas to update student technical knowledge in the present industrial scenario. Career and Personality Development Programmes are also organized to enable the students to face the competitive world with confidence. Majority of students are successfully recruited every year by several reputed National and Multi National Companies like TATA, HCL, Infosys, BK System, WAEI Ltd, and FORD etc.
National Service Scheme

“Not me but you” stands out not only as a motto of NSS but also inculcates the meaning of it to the students through its dynamic functioning. Frequent service camps, literacy programmes, tree plantation, free medical camps etc., are organized for social welfare. Presently there is one unit, comprising of 100 students actively involved in the National Service Scheme. This scheme hones students’ personality by developing socializing attitude and humane mind.

Other Clubs and Associations

Apart from the academics, students are also encouraged to expose their inborn talents by participating in various club activities like

- Red Ribbon Club
- Rotract Club
- Fine Arts Association
Al Ameen Khajamian Industrial Training Institute

Al Ameen Khajamian Industrial Training Institute was started in the year 1985. It has been affiliated to the National Council for Vocation Training, the Government of India. It gives training to students in such trades and industries in and around Trichy and also to the students who desire to go abroad for employment. Many students of this Institution were selected for employment in Gulf Countries, Singapore etc.

Infrastructure of the Institute

Four work sheds have been constructed for the existing trades of the Industrial Training Institute. Class Room, Drawing Room, Demonstration Room, Library Hall, Office Room, Principal’s Room and Staff Room etc are provided. Further, Hostel facilities are available. The Management is planning to start a few more trades such as Diesel Mechanic, Wireman, Motor Mechanic and Plastic Technology in a phased way. At present, nearly 150 students, including 50% Muslim students were imparted the technical training in a proper way. 12

Anvarul Muslimeen Industrial Training Centre Tiruchirappall

Anvarul Muslimeen Industrial Training Centre Tiruchirappalli was established in the year 1986. Industrial Training Centers are self–financing and privately owned training institutes that provide the same training programs as the ITI. Industrial Training Centers provide technical knowledge in various trades (both engineering and non-engineering) to candidates who have at least passed their 5th STD examinations and who wish to acquire some technical knowledge instead of going for conventional higher studies. Industrial Training Centers have been established to meet the present industrial and technological needs of the country. The main aim of the Industrial Training Centers is to impart craftsman training to aspiring technicians in an environment where they can grow to their full potential and become skilled and disciplined technicians. In Industrial

12 Interview with N. Peer Mohamed, Manager, Al-Ameen Khajamian Industrial Training Institute, dated 25th June 2013.
Training Centers, courses were offer such as Electrician, Fitter, Mechanic Diesel, Plumber, Welder Gas and Electric and Data Preparation and Computer Software.

The Anwarul Muslimeen Industrial Training Institute is successfully functioning with the support of Anwarul Muslimeen Educational Society. More than 250 students were admitted into this training institute. Many companies conducted their campus interview and selected the students for various posts. The Institute also offers many concessions to the students.¹³

**M.I.E.T. Engineering College**

The Regional Engineering College was the first Engineering College in Tiruchirappalli which was established in the year 1964. Later there various Engineering Colleges were started by the Government as well as individuals. But there is no Engineering College established in Tiruchirappalli for the benefit of Minority Muslim Community in Tiruchirappalli till formation of M.I.E.T. Engineering College. By realizing the importance of Engineering Education, A. Mohamed Yunus an engineer, started the first Engineering College named *Mohamed Institute of Education and Technology* in the year 1998. The Society was registered under the Tamil Nadu Societies Registration Act of 1975. A. Mohamed Yunus, an Industrialist-turned-Educationalist as the Founder Secretary and S. M. Hassan Mohamed, a philanthropist as the Founder President, with an objective to promote the cause of higher education. The College was started with the permission of the State Government vide G. O. No. M. S. W. 105 dated 23.03.1998 and the approvals of A. I. C. T. E. vide Lr.No.F.W.730-52-300 (E) ET/ 97 dated 17-11-1997. The College is affiliated to Anna University, Tiruchirappalli. It is recognized as a Muslim Minority Institution under the Constitution of India.¹⁴

¹³ Interview with N. Rajasekar, Principal, Anwarul Muslimeen Industrial Training Institute, dated 25ᵗʰ June 2013.
¹⁴ Souvenir, Silver Jubilee Year, MIET institutions, op.cit., p. 30.
Within a short span of time, the College has registered an impressive track record of academic performance. It constantly strives to reach better standards of teaching for effective student learning and also carries out several co-curricular and extra-curricular activities for developing life skills in students.

**Objectives**

- To offer world-class educational, research and training programmes, leading to recognized Degrees in Engineering, Science and Technology.
- To develop high technical and managerial skills among the students to face the competitive and challenging scenario.
- To run outreach programmes for promotion of socio-economic standards of general public through extra-mural programmes and application of science and technology.
Goals

- To provide state-of-the-art infrastructural and instructional facilities, employ competent staff to impart high quality cutting edge educational and training programmes and facilitate research in Science, Engineering and Technology leading to recognized Graduate, Post-Graduate and Doctoral programmes.
- To offer extra-curricular programmes for students to improve their life skills and conduct training programmes for non-traditional clients to promote economic, societal and moral standards for peace and prosperity among all.
- To educate and help the Muslim minority and the poor and socially deprived to enable them to gain confidence and status in society.

As may be seen, the Statement of M.I.E.T. reflects the spirit behind the establishment of the College.  

Courses Offered

Under Graduate Courses

- B.E. Mechanical Engineering
- B.E. Electrical and Electronics Engineering
- B.E. Computer Science and Engineering
- B.E. Electronics and Communication
- B. Tech. Information Technology
- B.E. Civil Engineering

Post Graduate Courses

- M.E. Manufacturing Engineering
- M.E. Computer Science and Engineering
- M.B.A. Master of Business Administration
- M.E. VLSI Design

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Department of Science and Humanities

The Department of Science and Humanities offers the foundation courses for all the Engineering Branches. The aim of the Department is to train the first year students in the respective areas so that they will build their knowledge on their respective branches of Engineering based on the basics. This Department has well experienced, qualified and eminent staff members. The Science and Humanities Department has well equipped laboratory facilities in a spacious location to cater to the needs and to develop the spoken and soft skills of students. To enhance our students’ communication skills, the English Laboratory provides good assistance in all aspects.

Department of Mechanical Engineering

The Department of Mechanical Engineering was set-up in the year 1998 to commence B.E. and B.Tech, Programmes in Engineering and Technology. Subsequently M.E. Manufacturing Engineering was added during the year 2006-2007. The Department has the following fully equipped laboratories

- Thermal Engineering Laboratory
- Heat and Mass Transfer Laboratory
- Automobile Laboratory
- Machine Tools Laboratory
- Strength of Materials Laboratory
- Fluid Mechanics and Machinery Laboratory
- Metallurgical Laboratory
- Metrology Laboratory
- Dynamics and Instrumentation Laboratory
- Mechatronics / Automation Laboratory
- In addition to the above, the Department has a CAD/CAM Centre with the latest soft wares on Design Analysis and Internet Facility to keep staff and students abreast of the latest technologies. The Department is manned by
experienced teaching staff specialized in different areas of Mechanical Engineering.

**Department of Electrical and Electronics Engineering**

The Department of Electrical and Electronics Engineering was started in 1988 and the first batch graduated in 2002. The Department has dedicated, qualified and experienced faculty members, with specializations in various fields of Electrical and Electronics Engineering. The Department has well established Laboratories. The Department arranges industrial visits for students to expose them to the industrial practices. Seminars, Guest Lectures, Workshops and Symposium are organized every year by the Department to update the students with the latest technological developments and help them to build up a strong personality. Students who have passed out of this Department with flying colours are gainfully employed or pursuing higher studies in India or abroad in reputed institutions/Universities.\(^\text{16}\)

The following lab facilities are available in the Department

- Electric Wiring Laboratory
- Motor Winding Laboratory
- Electrical Machines Laboratory
- Special Machines Laboratory
- Power Electronics Laboratory
- Instrumentation and Control Laboratory
- Electronic Devices and Circuits Laboratory
- Digital System Design Laboratory
- Non-Linear I.C. Laboratory

**Department of Computer Science and Engineering**

The Department of Computer Science and Engineering grew with the inception of the Institution since 1998. It offers B.E. Programme in Computer

\(^{16}\) Ibid, p. 20.
Science and Engineering. In fulfilling the need for providing opportunity to the students to pursue higher education, M.I.E.T. Engineering College has introduced M.E. in Computer Science and Engineering during the year 2007. The Department offers various awareness programmes on IT enabled services and programmes on high level languages for the students of all Departments.

The Department is equipped with the following laboratory facilities:

- Network Laboratory
- Programming Laboratory
- Graphics Laboratory
- Multimedia Laboratory
- Web Designing and Programming Laboratory
- Software and Compiler Design Laboratory
- System Software Development Laboratory

**Department of Electronics and Communication Engineering**

The Department of Electronics and Communication Engineering was established in the year 2001. Since then the Department has been offering a full time B.E Degree Programme in Electronics and Communication Engineering. The Department has a highly committed faculty with diversified areas of specializations. The Department has conducted seven short term programmes, a project exhibition, four national level technical symposia and one intra college technical symposium. The Department has been motivating the students to cope up with the advancements in the field of Electronics and Communication Engineering and to face the modern Electronic Era with confidence by arranging special guest lecturers by eminent scholars from NITs, Anna University, Chennai and Anna University, Tiruchirappalli and MIT, Chennai. The Department has well equipped laboratories with the state of–the-art facilities.

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17 Interview with Head, Department of Electronics and Communication Engineering, dated 4th May 2011.
• Basic Electronics Engineering Laboratory
• Electronics Circuits Laboratory
• Digital Design Laboratory
• Linear I.C Laboratory
• Microprocessor and Microcontrollers Laboratory
• Microwave and Optical Laboratory
• Communication Laboratory
• VLSI Laboratory
• Digital Signal Processing Laboratory

**Department of Information Technology**

The Department of Information Technology was established in 2001 with an intake of 60.\(^{18}\) The first batch was turned out in the year 2005, with high profile academic achievers. Since its inception, the focus of the Department has been to provide advanced training in core sectors of Information Technology and to foster high quality interdisciplinary research in these fields. With globalization of Indian Economy, vast opportunities of growth have been thrown open for the IT Industry. The Department has a team of well qualified, experienced and dedicated faculty members with good academic background. Regular seminars, guest lectures, symposia and national level conferences are organized. The Department has the following laboratory facilities to equip budding engineers with the latest technologies for effective functioning in the world of work.

• Internet and Networking Laboratory
• Data Structure and Algorithms Laboratory
• Data Base management Systems Laboratory
• Visual Programming and Graphics Laboratory
• Software Design, Development and testing
• Case Tools Laboratory
• Multimedia Laboratory

• System Software Laboratory
• OOPS Laboratory

**Department of Civil Engineering**

The Department of Civil Engineering was set up in the year 2006. The Department has a team of dedicated staff members.

The Department is equipped with the following laboratory facilities:

• Surveying Laboratory
• Environmental Engineering Laboratory
• Soil Engineering Laboratory
• Transportation Laboratory
• Strength of Materials Laboratory
• Fluid Mechanics Laboratory
• CAD/CAM Laboratory

**Library**

A Library is the blood of an academic institution and fully automated modern Library is on its way to become an outstanding learning resource centre catering to the intellectual requirements of the students, the faculties and researchers in MIET. Library is housed in C Block building, with 9500 Sq. ft of carpet area. It has a comprehensive collection of predominantly Engineering-related books to meet the present and future information needs of its users. Majority of library activities are computerized using 18 terminals by NIRMALS-an integrated library software package with Barcode Technology. The total value of the Library Collection is Rs.75 Lakhs. A library budget of Rs.15 Lakhs is allotted every academic year towards the collection and addition of books and periodicals. The library has a total collection of more than 25840 volumes, with 9492 titles relating to various Engineering Disciplines and Science and Humanities. Library has a huge collection of reference books like 26 volumes of ASM handbook, 32 volumes of Encyclopedia Britannica, 24 volumes of world of science for ready reference. The library includes 165 periodicals with 122
journals and 43 technical magazines and E-Journals. Full text access for IEEE and ASME through INDEST-AICTE consortium, with 15 computers forming the digital library section, is a sparkling feature of our library.

**Training and Placement Cell**

The Training and Placement Cell of the MIET Engineering College has been well established with all infrastructural facilities. The Cell invited many resource persons from various industries and provided training, career and personality development programme for the students. According to the placement records every year more number of students were recruited in reputed industries and IT firms.

![Figure 3. Source: Placement and Training Cell Report, MIET Engineering College, 2010](image.png)

The figure no 3 shows the students recruitment in various companies from the academic 1998 to 2010.
M. A. M. College of Engineering

MAM Group of Institutions comprises ten institutions providing education for around 7237\textsuperscript{19} students, at Siruganur, 23km from Tiruchirappalli. The MAM institutions encourage student’s education exclusively in Engineering and Technology both at the degree and diploma level – Degree in Architecture, Education & Nursing besides institutions for School education. The MAM institutions believe in producing knowledgeable degrees rather than mere degrees. MAM provide state-of-art education with 428 highly qualified and experienced teachers. About 28% of the faculty members in the group are doctorate holders and in addition about 31% of the faculty members who are currently pursuing their doctorate programme with the full support of the management.

The three engineering colleges of MAM maintain a staff-student ratio of 1:11 against the AICTE approved 1:15. The group is proud to top the country with the highest number of faculty members who are empowered through Wipro's Mission 10X faculty empowerment programme. MAMCE has been identified as one among the eight colleges in Tamilnadu for starting rural BPOs. MAMCE has hosted the famous sports event among engineering colleges, TIES 2002, which is an Olympic for the engineering students. The MAM group colleges encourage students in all – round development for which facilities and encouragements are provided. Students are admitted through sports quota, for which concessions are provided in the tuition and hostel fees.

M.A.M College of Engineering, is patronized by Maluk Educational, Health and Charitable Trust. The College was established on 10.02.1999 with the approval of the Government of Tamil Nadu and All India Council for Technical Education and it is affiliated to Anna University of Tiruchirappalli. Many batches of Engineers have passed out successfully, with 100% result and placed in reputed companies in various fields. In this competitive environment in the

engineering education, MAMCE proves their commitment to provide quality education to their students.²⁰

MAMCE stands as a monument to witness the vision of Janab. M. Abdul Majedu, the Founder Chairman. The concrete shape to the dream of the Chairman was given by Dr. S. Sathikh, former Vice Chancellor of the University of Madras and the Chairman of the College Governing Council. Their dreams came to reality in the year 1998. The great vision of the Chairman is explicitly seen in the Quality Policy, the Vision and Mission of the College.²¹

**Highlights of the institutions**

- 17% of faculty members hold Ph.D. and 69% PG qualified²²
- Placement Oriented Training given right from the first year
- Best academic practices are adopted leading to development of personality and excellence in career.
- Separate server providing NPTEL e-learning material developed by IIT professors available for students through intranet.

**Department of Computer Science and Engineering**

The Department of Computer Science and Engineering was established in the year 1998, with the mission to educate students so that they become enlightened individuals. CSE shares the mission and vision of the Institute in imparting high quality education to the students. The Department of Computer Science and Engineering (CSE) is one of the most dynamic departments in the College. As the field of computing plays an increasingly major role in practically all disciplines, the college is poised for exciting growth. The Department offers B. E (CSE) from 1998 with current annual intake of 120 & M.E (CSE) with intake of 18. Highly qualified and experienced faculty with specialization in Networking, Algorithms, Data Mining, Mobile Computing, Grid Computing,

²⁰ The Hindu, 19th June, 2011.
21 Interview with M.A. Maluk Mohamed, Principal, MAM Engineering College, dated on 21st March, 2011

The Department has been organizing national conferences on “Object Oriented Technology” from the year 2004 onwards and “National Conference on Computing Informatics” from the year 2008 onwards. The Department also organizes annual symposium COMBLAZE, with Guest Lectures on various topics. The department has submitted a proposal to the AICTE for grants to conduct staff development programme on Cloud Computing and also submitted the application for MODROBS.\textsuperscript{23}

In association with ACES the Student association, department has been organizing many events such as panel discussion, group discussion, techtalk, paper presentation, technical quiz, Software debugging, logical thinking, for the welfare of students to improve their technical skills and their organizing skills. The event receives overwhelming response from the students of various colleges in Tamil Nadu. The Department has well equipped laboratories which are available to the students round the clock. The Department has internet facilities (12 MBPS) through BSNL broad band.

\textbf{Department of Information Technology}

The Department of Information Technology was established in the year 1998. The Department has well equipped laboratories and laboratory facilities are available to the students round the clock. The Department has internet facilities (1MBPS) through broad band line and RF link. The laboratories include Operating System and Networking Lab, Systems Programming Lab, Software Engineering Lab, Windows Programming Lab, Multimedia and Graphics Lab, Java Technology Lab, Hardware Lab.\textsuperscript{24}

\begin{flushright}
23 Ibid., p. 19. \\
24 The Hindu, 14\textsuperscript{th} May, 2012.
\end{flushright}
The Department is closely linked with various leading industries and educational institutions. The Department also offers many value added educational programs to the students including Industry Certification like CCNA, Redhat Linux Certification etc. Alumni from the Department are placed in all the top IT industries including TCS, Wipro, Infosys, CTS, HCL, Flextronics etc.

**Student achievements:**

Final year IT students visited ISRO, Trivandrum on 27\textsuperscript{th} September, 2004. Second and Third Year students visited International Technology Park, Bangalore on 13\textsuperscript{th} September, 2004. III year IT Students trained by BSN, Tiruchirappalli during the month December, 2004.

**Sports:**

- IT students won the Gold Medal in a Cricket Match conducted by MAM College as an Inter-College Event.
- III year IT students participated in a Cricket Match conducted by Saranathan college of Engineering.
- IT students entered Finals in the competition conducted by Rotaract Club, Trichy in Oct. 2004

Final year students won the Gold Medal in Volley Ball conducted by Kurinji College of Engineering, Trichy.

**Symposia:**

- Final year IT student was awarded “Miss Virus” in a Technical Symposium conducted by MIET Engineering College, Trichy in Sep. 2004
- Many students of IT won many prizes in a Symposium conducted by Dhanalakshmi Srinivasan College of Engineering, Trichy.

**Conference / Symposia conducted:**

- Assisted organizing “NCOOT” – National Conference on Object Oriented Technology in Aug."04"
In collaboration with CSE Department, IT conducted “Comblaze 4G” – a National level Technical Symposium during 18-19th of Feb. "05"

**Department of Mechanical Engineering**

The Department of Mechanical Engineering has a blend of faculties with rich industrial experience from BHEL and State Government Departments. There are several PhDs with innovative ideas. They are constantly guided by the Director, Dr. V Shanmuganathan, who himself is a Doctorate in Mechanical Engineering. The laboratory is fully sponsored by 12 Master Technicians who are experts in the respective trade and they impart hands-on training to students. The first batch of mechanical engineer was admitted in the year 2005-2006 and they will roll out from College in the year 2009.25

**Facilities:**

**Manufacturing Technology Lab**

1. Universal Milling Machine
2. Radial drilling Machine
3. Gear Hobbling Machine
4. Turret and Capston Lathes
5. Shaping and Slotting Machines
6. Centre Lathes of different types

**Thermal Engineering Lab**

1. Steam boiler with associated accessories
2. Heat balance test rigs for single/ multi cylinder diesel/ petrol engines
3. Test rigs for refrigeration, air conditioning and air compressors
4. Apparatus to determine the flash and fire points of fuels, results of natural/ forced convection in heat and mass transfer
5. Cut views of two/ four stroke I.C. engines for better understanding of its construction and to determine the valve timing.

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25 The Hindu, 16th April, 2012.
**Fluid mechanics and Machineries lab**

1. Working models of impulse/ reaction turbines pelton wheel, francis and Kaplan turbines.
2. Test rigs for variable centrifugal pump, gear pumps, jet pumps and reciprocating pumps.
3. Pipe friction apparatus
4. Venture meter and orifice meter calibration apparatus

**Strength of material lab**

1. Universal Testing Machine (400 kN)
2. Tensile Testing Machine (2.5 kN)
3. Torsion Testing Machine (6 Kgm)
4. Hardness Testing Machine (Brinble, Rockwell)
5. Impact Testing Machines

**Department of Civil Engineering**

The Department of Civil Engineering was started in the academic year 2009-10. The discipline deals with the design, construction and maintenance of the physical and naturally built environment, including works such as bridges, roads, canals, dams and buildings. Civil Engineering is the oldest engineering discipline after military engineering.

It is traditionally broken into several sub-disciplines including environmental engineering, geotechnical engineering, structural engineering, transportation engineering, municipal or urban engineering, water resources engineering, materials engineering, coastal engineering, surveying and construction engineering. Civil engineering takes place on all levels: in the public sector from municipal through to federal levels, and in the private sector, from individual home owners through to international companies.\(^{26}\)

\(^{26}\) The Hindu, 18\(^{th}\) October, 2012.
Laboratories

It is equipped with the latest state-of-art technology, with good quality in accordance with the specifications of Anna University, Trichy. Strict quality control checks and inspections are enforced for each and every use. Well-experienced technical and teaching staff handles the lab individually, along with the co-operation of students.

Strength of materials in Laboratory

- Universal Testing Machine having 40T capacity.
- Torsion Testing Machine.
- Spring Testing Machine.
- Rockwell & Brinell hardness test.

Surveying Lab

The Survey Laboratory is fully loaded with the latest equipments.

- Total Station
- Theodolite
- Plane Table
- Prismatic Compass
- Dumpy Level
- Aluminium Level Staff
- Metallic Tape
- Metal Arrows
- Measuring chain
- Ranging Rod.
- Pocket Stereoscope
- Cross staff
- Subtense bar
Department of Electrical and Electronical Engineering

Harnessing electrical energy is the challenge for electrical engineers. The power-packed EEE Department inspires the budding Electrical Engineers with the potent idea of constructing Generating Stations, Transmission Lines and Distribution Systems at economic rates and to design, test and supervise the manufacture of Electrical and Electronic equipments used in electrical utilities, buildings, automobiles, aircrafts, radar, navigation system and broadcast and communication systems. The Department is constantly modernizing the infrastructure and lab facilities and is well supported by the Institute as well as by the Industry. The members of the faculty are encouraged to acquire higher qualifications at the Post-Graduate Level and Doctorate Level. They are deputed to participate in seminars, symposia, workshops etc., to keep abreast of the vast changes and developments in Science and Technology.

Special guest lectures by senior members of the faculty, from well known institutions of higher learning, experts and professionals from established corporate and industrial houses complement and supplement the instruction and training and enrich the knowledge of students in the subjects concerned. Students are encouraged and guided by faculty to carry out more than curriculum-based experiments and innovative research oriented projects. The laboratories are fully equipped with the latest sophisticated machines. Some of the major equipments which are available in the various laboratories are different types of DC Machines, AC Machines, Transformers, Bridges, Choppers, Inventors, CROs, Digital Storage Oscilloscopes, Generators, Resistor, Inductor and Capacitors boxes etc., besides 50 numbers of Pentium Systems for Power System Simulation Laboratory.27

Student Achievements

Prizes

- Techmark-1st Prize in Jayaram College of Engineering
- Techmark- 3rd Prize in Jayaram College of Engineering

• Quiz-2nd Prize in Jayaram College of Engineering
• Tech. Quiz- 1st Prize in Karpaga College of Engineering.,& Tech
• Mini Project Exhibition- 3rd Prize in V.L.B Janakiammal Engineering., College
• Project Exhibition in Karunya Institute of Technology
• Project Demonstration in Muthayammal Engineering., College
• S. Thanga Thambi – International Conference on Network Security and Workshop.
• M. Mohamed Siddique– International Conference on Network Security and Workshop.

Department of Electronics and Communication Engineering

The Department of Electronics and Communication Engineering was Started in the year 1998. The ECE department has a VISION of "Technology Towards Empowerment" and a MISSION of "ECE- Excelleeer Customized Expectation". The faculties are specialized in Microwave Engineering, Bio-Medical Electronics, MEMS, VLSI\textsuperscript{28}, Micro Controllers, RF Communication, Mobile Communication.

Facilities:

The Department is well equipped with VLSI Laboratory, DSP Laboratory with advanced software’s, Electronics Circuits Lab, Digital Lab, Linear Integrated Circuits Lab, Microwave Lab, Optical Communication Lab. The Department conducted various Faculty Development Programmes in partnership with Industries like FALCON, Agilent Technologies etc.,

The Department has an association called ACOEL - Association of Communicative Electronics. The achievements of the association as follows:

• This Association is to enhance the students’ knowledge in the field of electronics and communication.

\textsuperscript{28} VLSI refers to Very Large Scale Integration.
• The Department has organized a number of guest lectures with people from reputed industries like ISRO, CDAC, etc.
• Inter college technical symposium.
• Mini project competition - ARJUNAS
• Many of the students got placed in reputed organizations like INFOSYS, CTS, ZYLOG, WIPRO etc

There is a Digital System Design Lab to provide hands on experience to the students to strengthen their fundamentals in Digital Electronics. The Lab is fully equipped with various digital ICs, components and equipments with the latest model of Oscilloscopes, Analog and Digital IC Tester, Function Generators, Analog and Digital and LIC Kits etc.

**Microprocessor Lab**

The Lab is designed in such a way that students could understand the concept of microprocessor and micro controller. The Lab is furnished with 8 and 16 bit micro processor trainer kits with PC interfacing and microcontroller.

**Communication Lab**

The Communication Lab is designed to give exposure to the students in the field of communication. The Lab has imported microwave components operating at X and Y bands to conduct various experiments. Fiber optic experiments are conducted to study various analog and digital modulation techniques and application of phase locked loops. The Lab also has provisions to do RF experiments with high sophisticated antenna system.²⁹

**Electronics Devices and Circuits Lab**

Electronics Devices and Circuits Lab provides hands on experiment to the students to strengthen their fundamentals in electronics. The Lab is well equipped with all basic electronic equipments like oscilloscopes, audio signal generator, function generator, power supplies etc and good stock of electronic components of all types.

Digital Signal Processing Lab

The Digital Signal Processing Lab is designed to give latest exposure to the students in the field of Digital Signal Processing. The Lab has vast infrastructure facilities which include 33 systems with Pentium-IV-2GHZ-40GB HDD-256 MB SDRAM installed with MAT Lab 7 and Code Composers Studio and LAN Trainer Kits. This lab is fully equipped with the latest Digital Storage Oscilloscope, Spectrum Analyzer etc.

VLSI Lab

Today is the era of VLSI. There is a VLSI lab, with state-of-the-art sophisticated tools and kits for design and development. All the thirty systems are installed with Xilinx ISE 7.11 and Modelsim 6.0a with download utility. Implementation is carried out by using Xilinx and it is verified by Spartan II device of the Xilinx FPGA family

Department of Electronics and Instrumentation Engineering

The Department of Electronics and Instrumentation Engineering has an environmentally cool atmosphere. The students have an opportunity to know the functioning of various equipments and systems which they studied through theoretically. In addition, the Lab is provided with a spacious Conference Hall and Department Library. A well-furnished modern Instrumentation Lab is functioning in this Department. The Department of Electronics and Instrumentation Engineering is headed by an Eminent Professor, an industrialist having served BHEL Trichy for about 35 years in the field of Control & Instrumentation. The Department is by run team of faculty members who are very dedicated to the student community and experts in various fields of instrumentation.

Electronics and Instrumentation Engineering of M.A.M. College of Engineering was started in the year 1998. This Department is the Core Department as it has the major role to play in the control room of all industries.
In order to improve the skills of students and to bring out the creativity of the students, the Department has encourages students to join international and national associations. The Department has its own association.

**Facilities:**

The following are the various laboratories functioning to facilitate the students to have more practical exposure.

- Process Control Lab
- Computer Control Lab
- Measurements and Instruments Lab
- Transducers Lab
- Industrial Instrumentation Lab
- Control Systems Lab

**Insat:**

Instrumentation Students Association of Technocrats (INSAT) is an Association specific to this Department.

**Department of Computer Applications**

The Department of Computer Applications was established in the year 2009. The major asset of the Department is well – dedicated and experienced faculty members who strive to impart quality education to the students to become effective software professionals. The Department encourages the faculty members to undertake research activities and promote the professional growth of students. All the faculty members completed their Master’s Degree and two of them are pursuing Ph.D. The average experience of faculty is above five years. Besides, the retention ratio of the staff members is effectively fair. The course offers several areas of specialization as elective papers. Experienced academicians and industry professionals periodically interact with students. This helps the students to keep abreast with the changes in the globalized scenario.\(^{30}\)

\(^{30}\) Business Line, The Hindu, 28\(^{th}\) April, 2010.
The Department is headed by Dr. B. Smitha Evelin Zoraida, who has 11 years of experience in teaching. She has obtained M.Sc. (C. S.), M. Phil, Ph. D. She has published five research papers in International Journals and four papers in National and International Conferences. Her field of research includes D. N. A. Computing.

**Department Goals:**

**Short Term Goals**

- To achieve academic excellence on par with Global Institutions.
- To achieve overall 100% pass with 50% Distinctions.
- To achieve 50% placement.
- To produce more rank holders.
- To spread computer literacy to rural folk.
- To get grants from MHRD/DST/CSIR/AICTE for R & D Projects.

**Long Term Goals**

- To establish a full-fledged, recognized R & D Center & to launch a Journal on computer applications.
- To develop the Department as a Center of Excellence in Learning.
- Aiming at 100% Placement.
- To organize more technical events on cutting-edge technology.
- To establish good rapport with reputed firms & Universities.  

**Facilities**

- The Department has Wi-Fi facility throughout the campus for internet and LAN Networking. The student and faculty can browse internet for 24 hours inside the campus.
- The Department has Video Conference Facilities to share expert guest lecture and facilitate industry institution interaction.
- Digital Board is used as teaching aid through which the faculty class room presentation can be viewed and stored by student on their laptop.

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The Department has well qualified faculty with expertise in various fields like Computer Graphics, Distributed Computing, Operating System etc...

The Department organized One Day Workshop. It proposes to organize various International & National Level Workshops & Seminars.

Training and Placement

Objective

To mould the students to meet the corporate expectations and place them in reputed companies based on the expected job profiles of each student.\textsuperscript{32}

Placement activities

We have full-fledged Placement Cell which monitors the employment opportunities and arranges campus interviews for the final year students.

- Campus Recruitment Program starts by the beginning of the Pre-Final Semester.
- On Campus Recruitment Program continues till the end of their Final Semester.

![Placement Statistics 2005-06](image)

Figure 4. Department of Career Development & Placement Statistics 2005-06 (Course wise Placement)\textsuperscript{33}

\textsuperscript{32} Interview with R.Amjad Hasan, Soft skill Trainer, Placement Cell, MAM Engineering College, dated 10\textsuperscript{th} May 2011.

\textsuperscript{33} Annual Report, , M.A.M. College of Engineering, 2005-06, p. 27.
The Figure 4 shows the department wise placement statistics of the academic year 2005-2006. The report clearly highlights the demand in the field of Computer Science and Information Technology with high recruitment of above 90%. It also shows the Low percentage of recruitment in the field of Civil engineering.

**Career Development Programmes**

The Placement and Training Cell offers Career Development Program for the students who are raring to enter the corporate world and introduce them to the prospective employers according to their aspirations and background. The Training Programs have been formulated after a thorough analysis of unique requirement of various companies as the required skills varies according to the company’s requirement. We impart this training program with the help of reputed Training Institutes. They enable the students to gain a competitive edge in the recruitment process, shape their confidence and develop their personality. The training modules are formulated to improve our students’ skills like:

- Presentation Skills
- Interpersonal Skills
- Speed Mathematics
- Verbal Reasoning
- Team Building
- Group Discussion
- Planning & Goal Setting
- Personal Grooming
- Listening Skills
- Logical Reasoning
- Situational Conversation
- Creativity

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34 Interview with S. Amala Ruban, Head, Placement and Training, MAM Engineering College, dated 10th May 2011.
Figure 5.  

Figure 6:  

Figure 6 shows the overall placement percentage from 2003 to 2007.

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The history of technical education is traced from 19th century A.D.; it is a recent origin in the case of Muslim education. The technical educational institutions of Muslims of Tiruchirappalli made their service about thirty years to the Muslim community as well as others. The M.I.E.T. and M.A.M. group of institutions have made remarkable service in this region they consisted about fifteen different institutions. They also provide cheap and cost effective education to the poor and needy while other institutions levied high fee. These institutions became a role model to others for providing scholarships and other concessions which are absent generally in the technical educational institutions. The Muslim students who are certified as deprived class by the local Jamath were admitted at free of cost or a member of the management committee provided assistance for their education.

Historically, while there has always been a gap between the education of boys and girls in India in the case of Muslims, the gap has been a yawning chasm. Women education has long been neglected by the society. Women were not allowed or aware to get in proper education. Most of them couldn’t cross the stage of primary level. Muslim educationists and thinkers themselves and as a consequence of the state and central governments, have been tardy in redressing this imbalance. While there are numerous instances of minority-run institutions among Christians, Sikhs and Parsis that have made special efforts to provide free education to their girls, among Muslim faith-based organisations this consciousness has been late in coming.

During the last two decades the significance of women education was realized by the Muslims of Tamil Nadu. The Muslim elites and philanthropists, who already established educational institutions, made effort to start separate institution for women in Tiruchirappalli region. This effort paved the way for the establishment of Muslim women institutions in Tiruchirappalli.