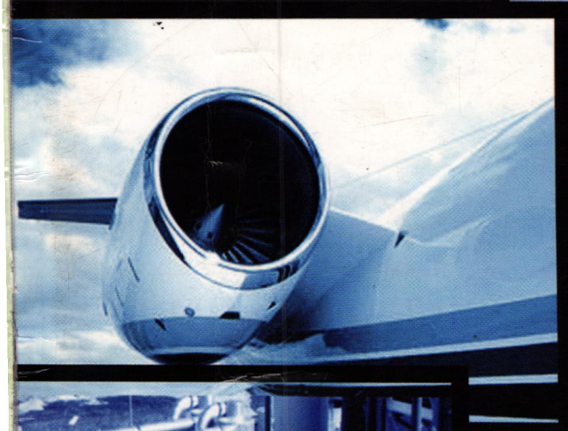
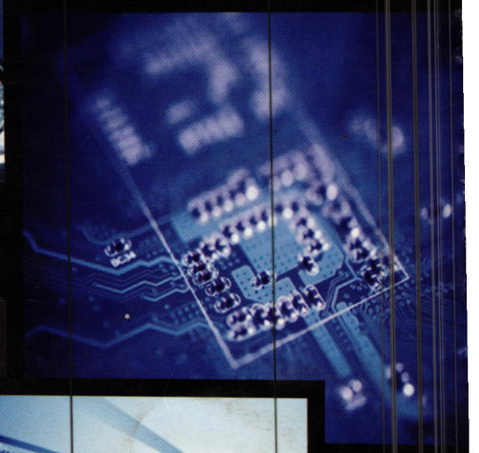
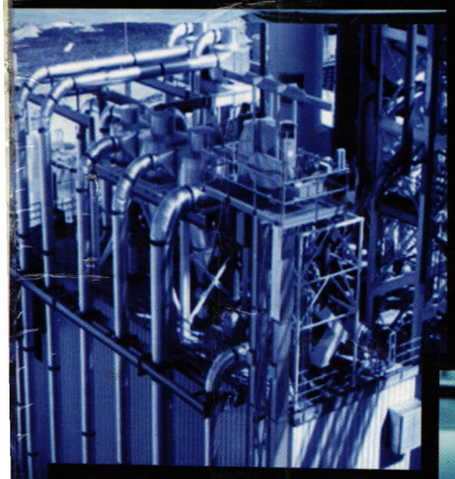
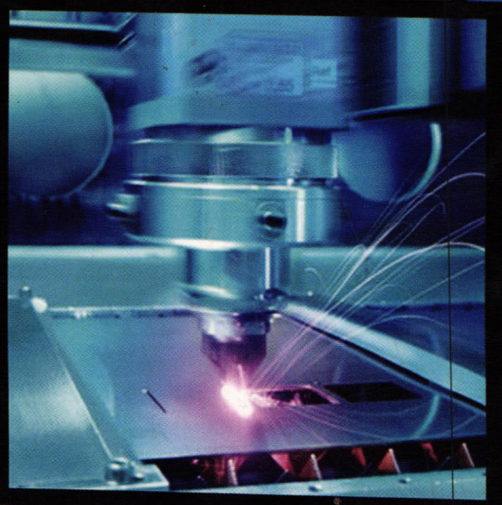
MADRAS INSTITUTE OF TECHNOLOGY

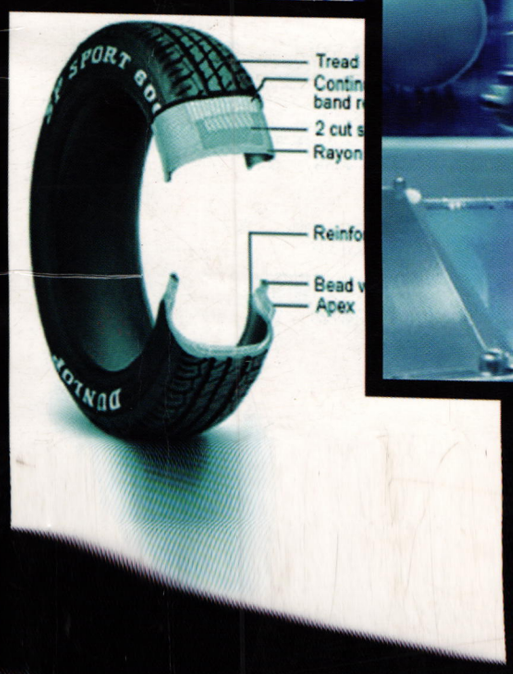
ANNA UNIVERSITY CHENNAI











INNOVATION...

MITMAG '10

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President

Dr. V. Subrahmanian

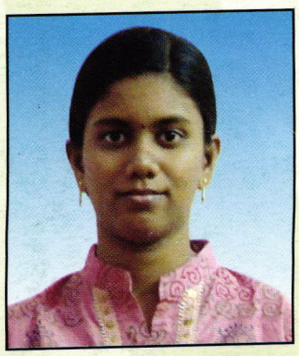
Vice - President

Dr. D. Manamalli

Vice - President

Prof. K. Elango

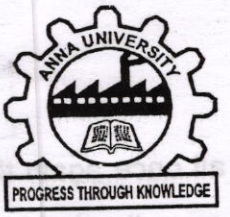
Prof. S. Gajendran



Ms. Padma

Mr. H. Srikanthan

Ms. V. Subhasri



MITMAG - 2010

MADRAS INSTITUTE OF TECHNOLOGY

ANNA UNIVERSITY CHENNAI

CHROMEPET, CHENNAI - 600 044

Editorial

The MITMAG team takes immense pleasure in meeting you all once again through MITMAG '10. We thank you all for the overwhelming response and co-ordination given for the submission of the articles for this year's edition of MITMAG. We would like to congratulate each and every contributor for bringing out MITMAG '10 successfully. Special mention to those, who couldn't make it because it is you who raised the bar which brought out the best in every MITian. The MITMAG team salutes you guys and asks you to keep contributing to the forthcoming editions as well.

Editors

P. Sathish Babu, Final PT

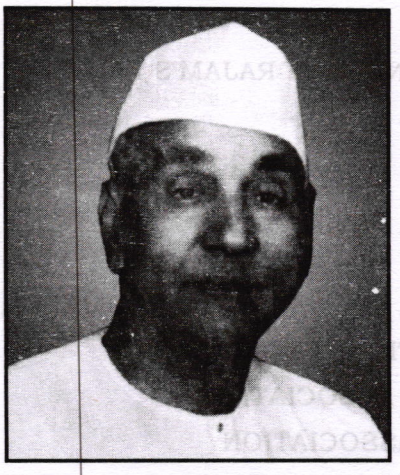
I. Aarthi, Final Aero

A. Rajalakshmi, Final ECE

Cover Page Designed by

N. Vishnu Shankar, Final ECE

A Message from the Founder C.Rajam"s Family



Dear Students,

Greetings from MIT Founder's Family. The academic year is coming to an end and some of you would be embarking on fresh career opportunities or higher studies. Others will be gearing up for yet another semester to tackle new subjects and aim for better grades. It is always the best time of the year to look back, learn from past mistakes and re-define your strategies for the coming months. Realizing one's objective is indeed a worthwhile endeavor. But while accomplishing this task it is also vital to develop a sense of social responsibility. We owe something to our community, to the land and people around us. We are making this journey of life together and self advancement is less important than the well-being of the community as a whole.

In consumerist cultures, success is often equated with material prosperity. Achievement is to be applauded only if it goes hand in hand with a broad concern for humanity. If every achiever resolves to help one disadvantaged or challenged fellow being, the world is going to be a "much better place" Although this sounds simplistic; it can work very well in practice. A socially responsible student can begin the task of "giving" in the classroom or neighborhood. Giving material assistance need not be mandatory. A little bit of time and energy, a little bit of care and concern for those not so fortunate, can go a long way in building bridges between people. Technology has made great strides since C.Rajam thought of an institution like MIT. It was his generosity and concern for the future of India which inspired him to envisage such a technological institute. We are grateful today for his philanthropic gesture for we are aware of the fact that MIT has become a world class institution. As we remember the Founder, with pride and gratitude, we wish the students all the very best and hope they turn out to be achievers as well as well adjusted humans. Good Luck!

Prema Srinivasan

CONTENTS

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ANNA UNIVERSITY CHENNAI

Chennai 600 025 | INDIA

Dr P MANNAR JAWAHAR

PhD., ME, DMIT, B.Sc., MISTE, MISME,
MISNDT, MSAE(USA), FIE, CHARTERED ENGINEER

VICE CHANCELLOR

April, 2010

MESSAGE

I am really happy to learn that Madras Institute of Technology Campus (MIT), Anna University Chennai, is releasing its annual magazine MITMAG 2010 for the academic year 2010-2011.

I am sure that this official magazine would project a professional image of MIT and provide an insider view on the culmination of all the activities carried out at MIT. In particular, the Asymptote 2009, an inter-tech festival conducted for the first time as a part of its Diamond Jubilee Celebrations at MIT, would have extended many opportunities for the students to get innovative ideas by means of arranging guest lectures from the academic and industrial fields. Even the Open House arranged for the public to know about the facilities at laboratories in MIT was laudable. I hope this would have really provided a great exposure and benefited the students and the participants at large.

In addition to these, I also sincerely believe that this yearly magazine would comprise valuable articles on academics, creative and imaginative literary skills latently hidden in staff and students. I hope that MITMAG will generate an inspiration among the readers and would stand as an attractive source of information about the institution to the users.

I convey my sincere appreciation to the publishing committee for their valuable support and all the contributors behind the venture of MITMAG 2010 and wish them all success in their future endeavors.

7/5/09

(Dr.P.Mannar Jawahar)

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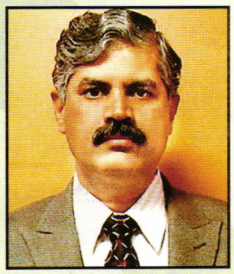
Dr. S. SHANMUGAVEL, Ph.D.,
REGISTRAR



Dated : 15.03.2010

MESSAGE

I am greatly overjoyed at the fact that Madras Institute of Technology Campus, Anna University Chennai is releasing MITMAG 2010. I hope this would be a platform for upcoming students of Madras Institute of Technology to expose their talents to this world.

Madras Institute of Technology has always been an institution where the students never restrict themselves with studies alone. I hope this magazine would definitely glorify the variety of activities that has taken place. I convey my best wishes to the team behind this venture of MITMAG 2010. I wish that this institution moulds many more amateur students to perfection and glory.

15/3/10
S.SHANMUGAVEL

ANNA UNIVERSITY CHENNAI
MADRAS INSTITUTE OF TECHNOLOGY CAMPUS
CHENNAI 600 044
2223 2403, 2251 6002, 2251 6003, 2251 6004, 2251 6005

MESSAGE

The Athenaeum of Madras Institute of Technology Campus is a student body serving to the various interests of student community. The publication of MITMAG every year is one of its activities that give scope for the young students to exhibit their writing skills. Apart from this ***MITMAG*** *is a useful magazine to get information regarding the various important events and activities held in MIT Campus in the academic year through articles and photographs.*

I would like to congratulate the student body for bringing out the ***MITMAG*** *for the year 2010 with usual zeal.*

A. JOSEPH STANLEY
DEAN, MIT Campus

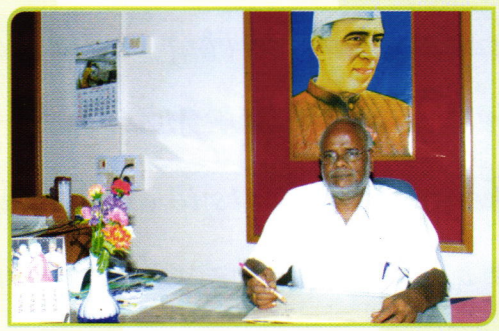
Dr. A. Joseph Stanley

Dean, MIT Campus

HEADS OF THE DEPARTMENTS

Dr. B.T.N. Sridhar

Department of Aerospace Engineering



Dr. S. Chandrasekaran

Department of Automobile Engineering

Dr. K. Bhoopathy Bagan

Department of Electronics Engineering

Dr. A. Rajadurai

Department of Production Technology

Dr. T. Thyagarajan

Department of Instrumentation Engineering

Dr. V. Vaidehi

Department of Information Technology

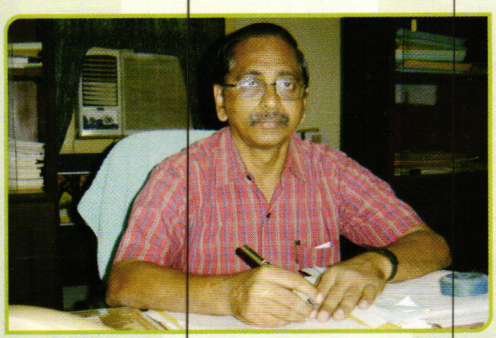
HEADS OF THE DEPARTMENTS

Dr. N. Natchimuthu
Department of Rubber & Plastics Technology

Dr. C. Sri Hari Nagore
Science & Humanities

Dr. S. Elangovan
Director, CASR

Dr. P. Manohar
AU-KBC Director & Professor In-charge of Library



Dr. B. Rajmohan
Zonal Co-ordinator

Mrs. Catherine Bina
Placement Officer & Head, Computer Centre

Mr. A. Jothilingam
Deputy Controller of Examination & Executive Warden

Department of Aerospace Engineering (UG)

ANNA UNIVERSITY CHENNAI
MIT CAMPUS : CHROMEPET, CHENNAI - 600 044

ANNUAL REPORT 2009-2010

My Annual Report seeks to highlight the important activities concerning the Academic and Research Areas, besides matters related to some of the accomplishments of our staff and students in academic and sports-related fields.

ACADEMIC ACTIVITES :

As for the student intake during this academic year, the number of students admitted at the Undergraduate level is **668** while it is **349** for undergraduate Part Time Courses and **252** for M.E./M.Phil/M.Sc. Programmes including those who come under SELF SUPPORTING SCHEME at the UG and PG Levels.

FUNDING :

MIT has received significant funding this year from various resources. **Rs.139.62 Lakhs** has been received from University General funds towards the maintenance and lab charges and Electrical/Civil Maintenance Works.

Rs. 144.17 lakhs has been received from CPDE & CIA funds for the purchase of Computers, Equipments etc.

Rs.227.8 lakhs has been received from UGC XI Plan towards the purchase of equipments and books.

All the Departments and the research centres are carrying out **research projects** in various specialized areas as follows :

Department	Name of the Project	Amount (Rs.In Lakhs)
Aero	DST-FIST	58.00
	CTDT	2.23
	RCI	9.85
Elects.	3 TCS funded project	34.25
Instn.	DIT funded – CDACCT joined project	25.00
AU-KBC	DAE	20 93
	DST-INDO SWISS	15.20
	Unilever	13.27
	DRDO	90.00
	DST	19.40
	CSIR	25.94
	DBT	55.35
	Anna University	7.00
	DIT	195.50
	DBT	18.62
	TWAS Projects funding agency	**US$ 5000**

CIVIL WORKS

MAJOR WORKS: Completed

1. Construction of II & III floor of Lecture Hall Complex at MIT Campus at a total cost of **Rs.1.48** Crores.
2. Construction of III Floor over the existing Junior Hostel at MIT Campus (fast track) at a total cost of **Rs.45** lakhs
3. Construction of New building for Girls' Hostel at MIT Campus (Cauveri Hostel) at a total cost of Rs.**2.05** Crores.
4. Construction of I Floor over the existing Non-Vegetarian Mess at MIT Campus at a total cost of **Rs.55** Lakhs
5. Construction of II & III Floor over the existing G.J. Block at MIT Campus at a total cost of **Rs.2.67** crores
6. Construction of I Floor over the existing Canteen building at MIT at a total cost of **Rs.40** lakhs.
7. Construction of Generator room at a total cost of Rs.9.90 Lakhs

WORK IN PROGRESS:

1. Construction of Boys' Hostel at MIT Annex at a total cost of **Rs.2.23** crores.
2. Construction of Girl's Hostel at MIT Campus (Cauveri Hostel II Phase) at a total cost of **Rs.3.60 c**rores.

MAINTENANCE WORK:

1. Raising the existing Compound Wall on the North & Eastern side from North East corner to Rajam Hall at MIT Campus at a total cost of Rs.24.70 Lakhs
2. Raising the existing Wall on the western side from North Gate to Zonal Office at MIT Campus at a total cost of Rs.19.90 Lakhs and the **work is in Progress**.
3. Construction of Compound Wall on the South Southern side of MIT Annexe at a total cost of Rs.9.95 Lakhs and the **work is in Progress**.
4. Diversion of drainage system from Rajam Hostel to the North-east corner of MIT Campus at a total cost of **Rs.19.60** lakhs.
5. Construction of Sumps for the following places:
   1. Ladies Hostel — Rs.3.00 Lakhs
   2. Canteen — Rs.3.00 Lakhs
   3. Boys' Hostel at MIT Annexe — Rs.3.00 Lakhs

WORK IN PROGRESS:

4. Non-Veg. mess — Rs.3.00 Lakhs
5. Rajam Hostel — Rs.3.50 Lakhs

RESEARCH ACTIVITIES:

As for as Research work is concerned, I am happy to report that 26 Scholars have been awarded Ph.D. Degree and 20 have been awarded M.S. Degree during the Academic Year. About 150 Research papers have been published in National and International Journals and 143 papers have been presented in Conferences. The number of Research Scholars currently doing Ph.D. and M.Phil/MS Programmes are 197 and 17 respectively.

The following **major equipments** have been added to the infrastructural facilities available in our Campus.

DEPT.	EQUIPMENT	(Rs.in lakhs)	(Rs.in lakhs)
Aero	Dynamic Mechanical analyzer – during June 09. to analyze all mechanical property of materials of dynamic and static conditions	33.00	**33.00**
Auto	1. Chassis Dynamometer 2. Combustion analyzer	25.00 03.00	**28.00**
Elecs.	1. Spartan Kit 2. Benchmark LAN-trainer Kit 3. DSP Image Processor Kit 4. ALTERA – FPGA Kit	01.10 01.60 02.65 01.00	**06.35**
Instn.	1. 50 KVA Diesel Generator	04.60	**04.60**
Prodn.	1. UPS System Power Pack 2. Diesel Genset 3. MAKIT Master Tool Kit	03.20 04.91 01.38	**10.49**
RPT	Monsanto ODR Rheometer – has been refurbished and put back into working condition for students use.	35.00	**35.00**
IT	Video Camera	02.62	**02.62**
AU-KBC	1. EPABX SYSTEM 2. Page 2 D System 3. Multimedia projector 4. Plasma TV 5. Lenova Computers – 14 Nos 6. Server- 2 Nos 7. CISCO Switch	01.55 01.65 01.06 01.27 05.38 01.12 01.38	**13.41**
LIBRARY	1. Installed 5 Nos of Air-Conditioners. 2.Books purchased from UGC funds	02.00 25.00	**27.00**
	Total		**160.47**

TEACHING STAFF:

As many as 27 staff members have joined MIT this year and 7 staff members have retired/retiring on superannuation.

I am very happy to report that quite a few of our faculty visited foreign countries either for sharing their expertise or for Academic updation.

VISITS ABROAD :

Dept.	Faculty	Place to visit	Duration
Aero	Dr.B.T.N.Sridhar	Germany	7 – 27th June 2009
	Dr.V.Kanagrajan	Germany	7 – 27th June 2009
	Dr.C.Senthilkumar	Japan	5 – 12th July 2009
Avionics	Dr.K.Senthilkumar	USA	14 – 18th Sep. 2009
Auto	Dr.K.Arunachalam	Japan	14 – 27th Mar. 2009
ECE	Dr.P.T.V. Bhuvaneswari	USA	13 -16th July 2009
	Dr.G.Kavitha	USA	15 - 17th May 2009
	Mrs.S.Vasuhi	Singapore	15 – 17th May 2009
E & I	Dr.S.Ramakrishnan	Germany	06th May – 3rd July'09
		South Africa	01 – 7th Oct. '09
	Dr.J.Prakash	Canada	18th May – 3rd July'09
	Dr.D.Manamalli	South Africa	30th Oct. – 8th Nov.'09
P.T	Mr.S.Gajendran	Canada	19 – 31st Mar. 2009
	Dr.R.Kesavan	Singapore	26 – 28th Feb. 2009
RPT	Dr.N. Natchimuthu	USA	13 – 15th Oct. '09
IT	Dr.S.Thamarai Selvi	Switzerland	04 – 8th May 2009
		Kuwait University	14 – 20th Nov. 2009
	Mr.Dhananjaykumar	UK	3 – 4th Sep. 2009
		Argentina	31.8.2009 – 01.09.09
	Mr.R.Gunasekaran	USA	27-29th Apr. 2009
AU-KBC	Dr.C.N.Krishnan	Paris	1 – 2nd Oct. 2009
	Mr.S. Chatterjee	USA	1 – 31st 2009

ACHIEVEMENTS OF STAFF & STUDENTS:

AERO	ANUSAT - A Microsatellite designed and developed by Anna University Chennai was successfully launched on 20th April 2009.
	MIT – Unmanned Air Vehicles (MIT-UAV) Team was awarded Rs.50,000/- Cash Prize as Winners of Stage 1 of the DRDO Golden Jubilee Competitions among the 300 institutions participated during December 2008.
	MIT-UAV Team has won a Cash prize of Rs.50,000/- and secured 3rd position of Stage II of the DRDO Golden jubilee Competitions held at Kolar, Karnataka during 8-19 June 2009
	APPRECIATION CERTIFICATE from Indian society of Wind Engineering was given to Dr.K.M.Paramasivam, Assistant Professor.
AUTO	1 staff and 20 Pre final year students have participated in BAJAJ – Asian level Race Car Design, Fabrication and Off road racing Competition held at Pithanpur, conducted by SAE.
E.C.E.	A student's team under the guidance of Dr.M.Ganesh Madhan, Asst. Professor completed a CTDT sponsored research project on Development of Efficient 3G Cellular repeaters for enhanced network coverage – 0.25 lakhs.
E & I	Dr.T.Thiyagarajan, Professor selected as Chairman, IEEE, Madras Section
P.T.	Dr.K.Kalaichelvan, Assistant Professor received project Grant from CTDT for the project titled "Seissmic Vibration Control using Shape Memory alloys"
	Mr.C.Nandakumar, Lecturer, received project Grant from CTDT for the project titled "Thrust Assisted Electric Charge Generation".
	Mr.B.Jagannathan & Mr.P.P. Srinivasan, attended Seminar on "PINNACLE 10" conducted by the Department of Mechanical Engineering, CEG, Anna University, Chennai-25 and secured I Prize.
R.P.T	Mr.R.Mahesh & Mr.K.Sujai of final year students of RPT secured II Prize in the Technical Quiz held at the Indian Institute of Technology, Kharagpur.
I.T	Innovative Faculty Projects under Research Support Scheme sanctioned Rs.50,000/- to Mr.R.Gunasekaran, Lecturer for the project titled "Efficient Resources Utilization by Solving Scheduling problems in WiMAX networks".
	Innovative students Projects under Research Support Scheme – A sum of Rs.25,000/ sanctioned to Thiru. Jamin Mohamed, Thiru S.Manikandan, Thiru P. Ram Kumar for their Project titled "Relay Selection for shadow region in IEEE 802.16j MMR networks under the guidance of Ms.P.Jayashree, Lectuer (SG).

	Innovative students Projects under Research Support Scheme -A sum of Rs.25,000/- sanctioned to Ms. M.Sheeba Shantha Kumari & Ms. K.Prabavathi for their project titled "Rough set based job runtime estimation and grid scheduling" under the guidance of Dr.S.Thamarai Selvi, Professor and Head.
C.C	**Community Service** – The Computer Centre conducted computer courses for government school students in and around chromepet, chitlapakkam on every Saturday and provide them with school bags and kits.
AU-KBC	Sushma Padmaja, won the Best Poster Award for the presentation entitled "Organization of Matrix/Scaffold Attachment Regions in Giardia lamblia" in the 78th Society for Biological Chemistry Meeting and Conference held in NCCS, Pune in Oct.2009.
	NRCFOSS team conducted a Teacher Training Programme at Loyola College between 8th and 13th of June 2009. This training programme was organised as a part of the process of cluster of Electives been included in their MCA stream.
	NRCFOSS conducted TTP at Trichy Region, during 29th Oct. to 3rd Nov.2009. Nearly 900 students doing Final Year MCA, MSc (CS) and MSc (IT) will be opting for FOSS elective I, from June 2010.
	MIT Library along with NRC-FOSS and MALA conducted a Workshop on Open Source Library Management Software, on 5th Dec.2009, at MIT Library, MIT Campus, and Chennai.
	One day Workshop on "Free/Open Source Software in Chemistry Teaching & Research" was conducted at AU-KBC Research Centre, on 5th Jan. 2010.
	Intellectual Ventures (Asia) has selected the following inventions for possible patenting and commercialization: *"Robust Preamble Detection in Wireless Systems"* – (S. Srikanth and A V Sarad).
	Intellectual Ventures (Asia) has selected the following inventions for possible patenting and commercialization: *"MIMO Antenna Algorithms for low power long range transmissions"* – initial value of USD 6000 (S. Srikanth and V Satish).
	"*IsecurIT*-Security Trainer Kit" – this product is being enhanced with more. features and functions as a joint activity with Benchmark Electronic Systems Pvt. Ltd. Chennai. (M Sethuraman).
	A patent application has been filed for "A Methodology to detect bacterial cells" (Jaffar Ali and K Krishnamurthy). (April 09)

	A one year Full time "Advanced Certificate Course in Clinical Trial Management (CTM)" has been started during Mar.2009 with 23 candidates jointly with Apollo Hospitals Educational Research Foundation (AHERF). Atleast two programs would be offered per year. (G.Ramesh Kumar).
	A certificate program in drug discovery and deployment through Bioinformatics was conducted during Jan. to Mar.2009 with 22 candidates. (G.Ramesh Kumar)
	NRCFOSS@AU-KBC organised and/or participated in about 20 events through out the country for the promotion of FOSS, and 4 Teacher Training Programs (TTP) are ready to be launched during May-July 2010.
	DEPARTMENT OF PHYSICAL EDUCATION: MIT won the Zone-IV – Zonal Champion for the year 2009-2010

PLACEMENT:

I am happy to inform that 394 of UG students and 28 of PG students have got placement so far through Campus interviews.

In general the Academic, Research and extra-curricular activities in the year **2009-2010** were very good.

I take this opportunity to thank all the staff and students and distinguished alumni of this Campus for their excellent involvement, participation and whole-hearted support towards achieving the above activities. I also thank our esteemed Vice-Chancellor and University authorities for their support and Guidance to carry out my duties in a smooth way.

❖❖❖

ASSOCIATION OF AERONAUTICAL ENGINEERS (AAE)
DEPARTMENT OF AEROSPACE ENGINEERING

About AAE

Association of Aeronautical Engineers, MIT was founded more than 50 years ago. It has emerged as one of the most active student organisations in the college. The 53rd academic year of the association was formally inaugurated on 20th August, 2009 by Shri.Surulirajan, Station Engineer, Gulf Air.

Members of AAE

Chairman	:	**S. Yuvarajaa**	Final year B.E
Secretary	:	**M. Shilpa**	Final year M.E
Treasurer	:	**T. Sakthivel**	Pre-final year B.E
Joint Secretary	:	**S.N. Subhash**	Second year B.E

Aeromodelling Club

Chairman	:	**K. Sivasubramani**	Final year B.E
Secretary	:	**Kalaidasan**	Final year M.E (Avionics)
Treasurer	:	**M. Ganesh Babu**	Pre-final year B.E
Joint secretary	:	**Gnanaraj**	Second year B.E

Association activities

Under the auspices of the Association of Aeronautical Engineers, lectures on special topics were conducted every Wednesday during Association hours. First in line was Dr.K.Lakshmi, Medical Officer, MIT who offered an enlightening lecture on the topic *"Prevention of Airborne Diseases"* on August 26, 2009 to educate the students about the causes and prevention of the then rampant Swine Flu. This was followed by a lecture on *"Aeroelasticity"* by Dr.S.Selvirajan, Deputy Director, WEL, SERC Campus, CSIR Labs, Taramani on September 9, 2009. Changing fields, a lecture on *"Research and Development of Wind Power in India"* was presented by Dr.S.Gomathinayagam, Executive Director, Centre for Wind Engineering Technology, Pallikaranai on September 30, 2009. Dr.K.Srinivasan, Associate Professor, Department of Mechanical Engineering, IIT Madras addressed the students on *"Jet Acoustics"* on October 28, 2009.

Several prominent figures from the international scenario were also invited to lecture the students in order to establish the wide reach of the association. Notable among them was Prof. Michael Chauvin from the Institute Superior de Aeronautics, Toulouse, France. He visited the department on October 27, 2009 for academic interaction and research collaboration in areas related to Aerospace Engineering. On February 16, 2010 Dr. Darius Modarress, Chief Technology Officer, Measurement Science Enterprises (MSE), USA conducted a presentation and demonstration on the *Mini LDV*.

In keeping up with the robust senior-junior relationship, which has been the tradition of MIT since time immemorial, the *"Welcome to the Freshers"* program was conducted on August 10, 2009 which was attended by staff and students alike. This was followed up with classes on MATLAB scripting and Basics of Aeromodelling conducted by seniors for the benefit of the juniors. The turnout for these sessions clearly reflects the enthusiasm shown by the students for the association activities.

Also, Prof.V.Kanagarajan from MIT was invited to advise the students on *"How to face an interview"* on October 7, 2009 which he addressed to a full house. The Ph.D Research Scholars Mr.Kathiresh and Mr.K.Vijayaraja briefed the students on their Research topics, *"Propellant Ageing" and "Nozzle/Jet Flows"* respectively on October 19, 2009.

An industrial visit to the *Chennai International airport* was conducted to the 5/8 students. The 6/8 students were taken on a one day visit to the *'Structures lab'* of IIT Madras.

Dr.K.Tamilmani, CEO, CEMILAC, Bangalore was invited to be the guest speaker for the commencement of the Association Activities for the New Year on January 22, 2010. A lecture on *"Telematics in Transportation"* was given by Dr.P.Tamilporai, Professor and Head, IC Engines Division, CEG on January 27, 2010. As the association includes the Department of Avionics, Dr.G.T.Manohar, Retired Professor, IIT Madras delivered a lecture titled *"Microprocessor based aircraft attitude, altitude and air speed indicator"* on February 24, 2010. A lecture on *"Introduction to Photo elasticity"* was given by Dr.K.Ramesh, Professor, Applied Mechanics Department, IIT Madras on March 3, 2010.

About Flight 2010

Flight is the national level technical symposium held every year in the month of March. More than 400 students of Aeronautical Engineering from all over India flocked to MIT to participate in this technical symposium. Through Flight, AAE hopes to bring out the best in everyone through a plethora of technical events such as quizzes, paper presentation and other interesting challenges. Students also get to interact with great researchers in the field of Aerospace Engineering.

The 2010 edition of Flight was inaugurated by Shri.P.S.Subramanyam, Director, ADA, Bangalore and the Aeromodelling workshop was inaugurated by Dr.K.Tamilmani, CEO, CEMILAC, Bangalore. The function was presided by Dr.A.Joseph Stanley, Dean, MIT and the chief guest introduction was given by Dr.S.Elangovan, Director, CASR. The key note speaker introduction was given by Dr.K.M.Parammasivam, faculty-in-charge, AAE. Flight was packed with two day Aeromodelling workshop, Turbo raft – a new water based event to encourage innovative thinking among budding minds, Project Expo, Bridge building and many other events.

The Aeromodelling workshop was organised by AAE on March 12th and 13th as a part of Flight. The workshop began with a *'ribbon cutting'* by Dr.K.Tamilmani, CEO, CEMILAC, Bangalore on March 12, 2010. The participants were taught to construct a *balsa wood model* with *0.1 Cu.i internal combustion engine*. The workshop received great response throughout the country and only 22 teams consisting of four members each were short listed to participate in the workshop.

The Flight was concluded on March 13, 2010 with the valedictory function headed by Shri.N.Rangamani, Assistant General Manager, Air India. The function was presided by Dr.K.Jayaraman, Professor of Excellence, MIT and the chief guest introduction by Dr.R.Dhanaraj, Professor of Excellence, MIT.

Dr. B.T.N. SRIDHAR
President, AAE

Dr. K.M. PARAMMASIVAM
Faculty in-charge, AAE

Mr. S. YUVARAJAA
Chairman, AAE

AUTOMOBILE ENGINEERING ASSOCIATION (AEA)
DEPARTMENT OF AUTOMOBILE ENGINEERING

AEA Activities

Automobile Engineering Association was inaugurated in the month of August 2009. Several guest lectures and events have been conducted for the past one year. Notable departmental activities are:

- ***Freshers party August 2009***

  A warm welcome was given to the freshers of the Automobile engineering department. Several staff and seniors presided over the function and gave advice to the juniors to live upto the name of Royal Auto and bring glory to themselves and the department.

- ***Prof. Garg Memorial October 2009***

  The function had notable chief guests from Ashok Leyland and several staff members from various departments paying their tribute to the Late. Prof. Garg. As a part of this memorial two students were given prizes for excelling in engineering graphics and thermodynamics

  1. P. Saravanan, Third year Automobile engineering
  2. Arun Kumar, Second year Automobile engineering

- ***SAE BAJA 2010***

  The Asian level technical fabrication and design of *All Terrain Vehicles* competition saw the students from our Automobile department. Under the guidance of Dr. G. Devaradjane and Dr. P. Senthil Kumar and all the staff members, our students have done a fantastic job of finishing in the top 50 from the 300 teams that participated.

- Several technical papers have been presented in various colleges in different domains. Notable domains in which papers were presented are as follows:

  1. Energy recovery
  2. Fuel efficiency improvement
  3. Alternate fuels
  4. Safety

❖ AUTOMEET' 10

The Grand National level technical symposium saw several innovative events. With a record participants count of 300 students, various events conducted are as follows:

1. Paper presentation
2. Auto quiz
3. General quiz
4. CAD Modelling
5. AIR CAR
6. Technical crossword
7. RC car race
8. Royal license
9. Why
10. Car sketching and several informal events

Dr. S. CHANDRASEKARAN,
Professor and Head,
Dept. of Automobile Engg.

Dr. G. DEVARADJANE,
President, AEA

Mr. A. GOUTHAM RAM,
Chairman, AEA

LOVELY TEN

Everything I need to know, I learned from Noah's Ark...

ONE : Don't miss the boat.
TWO : Remember that we are all in the same boat.
THREE : Plan ahead. It wasn't raining when Noah built the Ark.
FOUR : Stay fit. When you're 60 years old, someone may ask you to do something really big.
FIVE : Don't listen to critics; just get on with the job that needs to be done.
SIX : Build your future on high ground.
SEVEN : For safety's sake, travel in pairs.
EIGHT : Speed isn't always an advantage. The snails were on board with the cheetahs.
NINE : When you're stressed, float awhile.
TEN : Remember, the Ark was built by amateurs; the Titanic by professionals.

J. Ramya
Final Year CSE

Department of Automobile Engineering (UG)

Department of Electronics Engineering (Regular)

Department of Instrumentation Engineering (UG)

Department of Electronics Engineering (SS)

Department of Information Technology

Department of Computer Science Engineering (UG)

Department of Production Technology (UG)

Department of Rubber and Plastics Technology (UG)

Department of Aerospace Engineering (PG - Aero)

Department of Aerospace Engineering (PG - Avionics)

Department of Automobile Engineering (PG)

Department of Electronics Engineering (PG)

ELECTRONICS ENGINEERS ASSOCIATION (EEA)
DEPARTMENT OF ELECTRONICS ENGINEERING

About the Department

The Department of Electronics Engineering was started in the year 1949 and was the first in the country to offer professional training in the area of electronics. The main objective of the department has been to provide highly skilled professionals to the ever growing markets and to work along with the industry to develop new technologies. It has been achieving its goal as it can be very clearly seen from the placement records and the growing relations with other industries.

The Electronics Department has a strong back-bone of dedicated faculty and students. It has the highest student strength in MIT. Our faculties have participated in many national and international conferences and also organize workshops regularly to keep us updated on the latest technologies. In particular two faculty members, Dr. V. Vaidehi and Dr. Mala John have contributed immensely to the micro-satellite project. The satellite was launched in April 2009 and continues to function successfully.

A list of the workshops that were conducted during the academic year 2009-10 are:

1. Content Based Image Retrieval and Fusion [7th-9th August 2009]
2. High Speed Digital Design & Testing [23rd October 2009]
3. Next Generation Wireless technologies-Long term evolution [4th-5th December 2009]
4. Development of Embedded Systems using C for ARM with extensive hands on experience [7th-8th January 2010]
5. Demo of DSK6713 and Video Daughter Card [28th January 2010]

WORKSHOPS AS PART OF ELECTROFOCUS-10

1. Workshop on Cloud Computing BY IBM(19th MARCH)
2. Workshop on ASIC DESIGN by OPEN SILICON(19th MARCH)
3. Workshop on ANALOG DESIGN by TEXAS INSTRUMENTS(19th MARCH)
4. Workshop on AVR BUTTERFLY MICROCONTROLLER WORKSHOP by ATMEL(19th MARCH)
5. Workshop on 3-D animation Workshop by Professor Eddie Horn from GLASGOW CALEDONIAN UNIVERSITY, Scotland (20th MARCH).

MIT Alumni Association & Amita trust along with Electronics Engineers Association conducted Special lectures on "Latest Trends in Wired and Wireless Technologies" by BSNL on 8th September 2009.

As with any other organization the strength lies in the ability of the students. The Electronics Engineers Association [EEA] is the student body of the Department of Electronics Engineering. The association conducts special classes and mock interviews among its other activities. It is also responsible for the Intra, Inter-College fests namely Apocalypse and Electrofocus. Apocalypse'09 was held in the month of October and was a great success.

Electrofocus'10 was held in the month of March and has students from all over India participating. This event also attracted the big players of the industry who were willing to share their resources for the betterment of the students. Around 2000 students across the country participated in this technical symposium. This year also witnessed the record submission of around 630 technical papers covering myriad domains of basic science and advanced technology.

The department releases a bi-annual publication 'IMPETUS' which showcases the technical and non-technical talents of students. The magazine can be viewed as a product of the student's hard work as they take up various responsibilities along its creation process.

Madras Institute of technology has always attracted the best brains from across India. Our students have won many accolades when participating in events outside our Curriculum. Three students have received scholarships from the European Commission which would fund their 4th year of study in a European University. Two students from our department have secured among top 100 ranks in GATE-2010 amidst a fierce competition of over 1lakh students. We also have 3 students who have secured top ranks in CAT-2009 and many who have got offers from leading foreign universities to pursue their M.S studies

Dr. K. BHOOPATHY BAGAN
Professor and Head,
Dept. of Electronics Engg.

Dr. S. P. JOY VASANTHA RANI
President, EEA

Mr. P. VISHAK
Chairman, EEA

INSTRUMENTATION ENGINEERING ASSOCIATION (IEA)
DEPARTMENT OF INSTRUMENTATION ENGINEERING

Research and Development

The department produced four Ph.D scholars during 2009-2010.

S.No	Name	Supervisor	Date of viva
1	S. Lakshmi	Dr. J. Shanmugam / Dr. N. Pappa	23.4.09
2	K. Srinivasan	Dr. J. Prakash	28.8.09
3	R. Sujamani Malar	Dr. T. Thyagarajan	8.2.10
4	G. Kavitha	Dr. S. Ramakrishnan	15.2.10

Consultancy Work

Dr. T. Thyagarajan, Professor, IE and Dr. J. Prakash, Assistant Professor, IE carried out a consultancy work for validating the technical report submitted by M/s. Fulfillment and Services Pvt. Ltd, in May 2009.

Instrumentation Hub

Dr. T. Thyagarajan, Professor, IE and Dr. S. Ramakrishnan, Assistant Professor, IE are members of the committee for the establishment of Instrumentation Hub of Anna University Chennai with funding from DST.

Research Collaborations

Dr. Thania Douglas, Associate Professor in Biomedical Engineering, University of Cape Town visited Dept. of IE during Nov 2009 under the DST funded projects. Dr. Q. Henry Wu, Professor, Dept. of Electrical Engg and Electronics, University of Liverpool, UK visited in December 2009 for delivering lectures during a Workshop organized by CDAC and Dept. of IE.

Dr. S. Ramakrishnan, Professor, IE and Dr. D. Manamalli, Assistant Professor, IE visited the University of Cape town in Oct and Nov 2009 respectively to carry out collaborative research with funding from DST. Dr. S. Ramakrishnan, Professor, IE also visited RWTH, Aachen University, Germany during May-July 2009 under DAAD re-invitation. Dr. J. Prakash, Assistant Professor, IE visited University of Alberta, Canada, in May 2009 to carry out collaborative research.

Sponsored / Funded Research Projects

S. No.	Agency	Title of Project	Principal investigator	Amount in Rs.
1	DIT – CDAC (T)	Advanced Process Control Library	Dr. T. Thyagarajan, Professor, IE	25,07,000
2	UGC XI Plan	Industrial & Analytical Instruments	HOD, IE	25,00,000
3	DST-PURSE	Process Control Laboratory Machines	HOD, IE	25,00,000
4	UGC	Modeling, analysis and control of Hybrid system.	Dr .J. Prakash, Asst. Professor, IE	8,65,000
			TOTAL	83,72,000

Faculty achievements

The faculty members of Instrumentation Department have produced 22 publications in reputed international and national journals during 2009-2010. The department has conducted 5 Workshops / FDPs / Seminars during 2009-2010. 3 internationally recognized awards have been won by various faculty members of the department.

Research Papers Published in international journals : 22
Workshops/Seminars/Conferences attended by the Faculty : 7
Workshops / Seminars / Conferences conducted : 5

Workshop on Low Cost Solar Energy based Inverter	Jun 2009
IEEE 125th year meet	Aug 2009
FDP on Process Control	Nov 2009
2nd National Seminar on Automation Systems Technology	Dec 2009
Tutorial on Advanced Automation	Dec 2009

Association Activities

The Instrumentation Engineers Association activities for the year 2009-2010 was inaugurated on 11.08.2009 at 3.00 P.M by Mr. R. Pugazhendi Executive Engineer, Control & Instrumentation Division, NCTPS. Under the aegis of IEA, many special lectures, workshops, industrial visits, mock interviews have been conducted.

LIVEBEAT 2009

IEA organized an intra-college technical symposium (LIVEBEAT'09) on 23rd October 2009. Dr. V. Vaidehi inaugurated the symposium. It was a grand success with overall participation of 173 students in various events like paper presentation, technical quiz, Circuit debugging, Dumb-C design quotient and General Quiz. The event was coordinated by Dr. T. Thyagarajan, Professor, IE and Mrs. Sutha, Lecturer, IE.

INTECHO 2010

The National level technical symposium of the Department of Instrumentation Engineering, *'INTECHO'* was held during 5th and 6th February 2010. A total of 550 students from all over South India participated in this event & made it a grand success. The theme for this year INTECHO was *"GO GREEN and GO GENIUS"*. The event was inaugurated by Dr.M.A.Atmanand, Director, NIOT. The event kicked off with a cycle rally from MIT campus to Pallavaram conducted in association with TI cycles. Fifty enthusiastic students were a part of this awareness drive to encourage *'harmony with nature'*. A mind boggling array of events like Robotics, Paper Presentation, Design Quotient, Tech Quiz, SIM IT & workshops challenged the participants with the nuances of Engineering. Events such as General Quiz, Tech Crossie & Pot Pourri also drew large crowds to this gala event. Two workshops, one on *'PLC'* by M/s.Technokart Automation and another on *'MUCON'* by M/s.AT solutions, were conducted under the aegis of INTECHO 2010, with overwhelming participation by the students. The retired staff members, namely, Prof.S.Renganathan, Mrs.Jayatulasi Nandagopal, Mr.S.Krishnamurthy and Mr.V.Selvaraj were felicitated during the INTECHO inaugural function

Industrial Visits

NOKIA, Sriperumbudur	February 2010
IGCAR, Kalpakkam	October 2009
NCTPS, Chennai	September 2009
ISRO, Bangalore	August 2009

Guest Lectures

Mr.Pugazhenthi, NCTPS	"Power Plant Instrumentation"	11.08.2009
Mrs.Malarkodi, NIOT	"Marine Instrumentation"	04.09.2009
Mr.Vijayaraghavan, Consultant	"Role of instrumentation Engineers"	07.09.2009
Mr.Kasinathan, IGCAR	"Fibre optic Sensor"	08.10.2009
Dr.S.Renganathan, Ex-Dean, MIT	"Flow Measurements"	29.01.2010
Mr.S.Ramani, VP, Avant Garde	"Power Plant Fundamentals"	05.03.2010

Dr. T. THYAGARAJAN,
Professor and Head,
Dept. of Instrumentation Engg.

Mrs. S. SUDHA
Staff Advisor, IEA

Mr. A. WILLSON AMALRAJ
Chairman, IEA

THE ASSOCIATION OF PRODUCTION ENGINEERS (TAPE)
DEPARTMENT OF PRODUCTION TECHNOLOGY

Mission

To develop technically competent, socially committed and disciplined manufacturing engineers with creative ability, innovative thinking and managerial skill to manufacture quality products for the benefit of the mankind.

History of Department

The Department of Production Technology began its venture with three year B.Tech Production Engineering Programme (for B.Sc graduates) in the year 1977 with an intake of 20 students and M.E programme in the year 1993. The Department offers B.Tech in Production Engg & ME in Manufacturing Engg, Mechatronics Engg. It also offers part time UG programs in the areas of Mechanical Engg, Production Engg & PG programme in Manufacturing Engineering. For the first time in our country a PG programme in M.E Mechatronics was started in the year 1999 with an intake of 15 students.

Infrastructure

Our department is well equipped with laboratories namely the laboratories for Material Testing, Metallurgy, Fluid Power and Automation, Mechatronics, Metrology, CAD, Robotics and CNC which provide sophisticated facilities to support the practical demonstration of the concepts learnt by our students. We have ambient classrooms and a well designed seminar hall Ponnavai.

The Association of Production Engineers (TAPE)

The Association of Production Engineers has been active in developing the skills of students from the year 1978. The TAPE continues to be a strong student organization robustly supported by our staff members. The following are the events conducted by TAPE in this academic year.

- Activities of TAPE were inaugurated on 30th July 2009 in the august presence of our honorable Professor and Head Dr.A.Rajadurai and the esteemed Chief Guest of the function Mr. Ramesh Praba, Managing Director, Galaxy Communication Service Pvt. Ltd. Mr. Ramesh Praba, one of our cherished alumni, was also felicitated for his winning of the prestigious 'Kalaimaamani' award.

- The UG freshers were given a warm welcome with the Freshers' Orientation programme on 10th August 2009.
- The P.G. freshers were given a Freshers' Orientation programme on 27th August 2009
- The Teachers' Day celebrations were conducted with great merry and enthusiasm by our students wherein our teachers participated with full zeal.
- A seminar on Fundamentals of Friction Welding was taken by Mr.N.Srirangarajalu on 07th October 2009
- Professor M.S.Selvam Memorial Lecture, held every year in fond memory of our Late Professor Dr. M.S.Selvam was conducted on 21st October 2009 in the gracious presence of the honorable Dean of MIT Dr. A. Joseph Stanley, our esteemed Chief Guest of the function Mr. J.C.David Solomon, Scientist, R&D, Centre for Wind Energy Technology, Chennai. The reminiscences of Professor Selvam were shared by his beloved students Dr.K.Chandrasekharan, Vice Principal, Vel Tech Engineering College and Mr.Sugudev Singh, Project Manager, SPIC. Meritorious students of each year of UG and PG students were awarded the Professor Selvam and Professor Peer Mohammed Memorial prizes by Mrs. Mythili Selvam
- A guest lecture on 'Embedded Systems' by Mr. Balaji Seshadri, Technologist, Zilogic systems, Chennai, was held on 29th October 2009.
- A guest lecture on 'Experimental Analysis On Phase Change Materials Based Desalination System ' by Dr. Abdul Hakim Hassabow, Research Scientist, Technical University, Munich, Germany, was held on 5th November 2009.
- A guest lecture on 'Six Sigma' by Mr. Nilakanta Srinivasan, Principal, Canopus Business Management Group was held on 16th November 2009.
- The New Year 2010 was welcomed by organizing a meeting for the staff of our department on 5th January 2010.
- The annual inter college technical festival of our department EXPRO 2010 was held on the 26th of February 2010. We had several mind boggling events this year like the Smart Engineers, Project Presentation, Paper Presentation, Mech Quiz, CAD Modeling, Management Pro, Robotics and Drafting. EXPRO 2010 was inaugurated by Thiru. K.V. Kasi Viswanathan, Associate Director, GRIP, IGCAR, Kalpakkam The valedictory address was given by our esteemed alumnus Thiru R.R. Clement IRS, Deputy Commissioner, Income Tax, Chennai and the function was felicitated by Dr.S.Venugopal, Head, Robotic In-Service Inspection and Remote Handling, IGCAR, Kalpakkam.

Regular Activities

TAPE has always been supportive in developing the technical and soft skill competency of our students. TAPE sessions are held every Wednesday wherein students spend valuable time in developing soft skills by involving themselves in activities like group discussions, solving general aptitude questionnaire and developing their technical competency solving technical questionnaire of various core companies. Apart from these sessions, the students have been regularly taken on industrial visits to get a vision of the industrial scenario. The following are the companies to which visits have been made

- Rane Engine Valve Ltd (REVL), Chennai
- Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam
- Ennore Thermal Power Station, Ennore
- Integral Coach Factory (ICF), Chennai
- Mico Bosch, Bangalore
- Guhring Tools, Bangalore
- Hindustan Machine Tools, HMT, Kochi.

Team TAPE

We present before you our Team TAPE which is supported by our enthusiastic coordinators. We are thankful to all our students and staff- both teaching and non teaching, for having been cooperative in all our activities throughout this academic year.

Patron	Dr.A.Rajadurai
President	Dr.R.Sivaramakrishnan
Vice President	Mr.M.Thirumal Azhagan
Chairman	Mr.R.Thangaraj
Treasurer	Ms.R.Aishwarya
Secretary	Mr.Stephen Samuel
Joint Secretary	Mr.Amirthalingam Yogeswaran
P.G. Representatives	Mr.K.Venugopal - Manufacturing
	Mr.V.Bharanidharan - Mechatronics

Dr. A. RAJADURAI
HOD, Production Technology

Dr. R. SIVARAMAKRISHNAN
President, TAPE

Mr.R.THANGARAJ
Chairman,TAPE

Department of Production Technology (PG - Manufacturing)

Department of Production Technology (PG - Mechatronics)

Department of Instrumentation Engineering (PG)

Department of Information Technology (PG)

SOCIETY OF PLASTICS AND RUBBER TECHNOLOGISTS (SPART)
DEPARTMENT OF RUBBER & PLASTICS TECHNOLOGY

Evolution of mankind has been the most fascinating emergence, with the leaps and bounds growth seen in any domain we name, springing up from the Stone Age, the Iron Age to today's culminating age of polymers. Be it the Fiber reinforced resin used in the aircraft wings to the soft, resilient yet tough polyurethanes in the sports shoes, 'You name it, We deliver it' is the notion of our Materials Engineers. Our lives have become more colourful in the past six or seven decades, thanks to the developments made in the Plastics Engineering & the polymeric surface coatings. While Rubber, the material that performs untiringly in lakhs of fatigue cycles as a tyre or even as a tiny seal that resists highly corrosive acidic environment, can never have a substitute in lieu of it.

Our department, Department of Rubber & Plastics Technology was started in 1988 as Department of Rubber Technology by a team of like minded people who were desperate to plug the vacuum for technocrats in this industry. Subsequently in 2000, Plastics was also integrated with the degree. The Department with its experienced faculty has been striving hard to mould each student and make him/her shine as a brilliant professional. It has been providing a perfectly sculptured educational environment for the past 20 years and continues with zeal to strengthen the bond between the institution and the industry.

The Department has sufficient infrastructure facilities in terms of equipments and machinery to impart relevant training to the students. Students are given practical training in the synthesis, characterization, processing and testing of rubber & plastics, Computer Aided Design and Designing of moulds and dies apart from six weeks of mandatory industrial training. The Department has acquired sophisticated instruments such as Thermal Analyser, Twin screw extruder, Injection Moulding Machine, Rheometer and other testing equipments.

The Department is accredited by NBA & NAAC. The Department has received funding from AICTE, UGC, AIRIA & the like. There have been number of projects from Ministry of Environment & Forests, Defense Research and development Organisation, Government of India, TN State Government carried out in the Department. Our students have also been doing projects in Industries & Research organisations like Ceat Tyres, Apollo Tyres, TVS Rubbers, IRMRA etc. The Department is proud to inform that the students are well trained & placed in core companies like MRF Ltd., Jayasree Polymers, Paragon Polymer Pvt. Ltd., Apollo Tyres, Ceat Tyres, Hi Tech Carbon, Fenner India Ltd., Murugappa Group, including the automotive OEMs like Tata Motors, TVS Motor Company, Sundaram Auto Components, Harita Seatings, Renault-Nissan. A good number of students are doing well in their higher studies with paramount rankings in GATE, GRE, TOFEL etc and few others have become successful entrepreneurs.

SPART :

Society of Plastics & Rubber Technologists (SPART), a bold and dynamic community of the staff and the students of the Department of Rubber & Plastics Technology, was formed to organize Technical, co-curricular and extra curricular activities with an aim to make each student enjoy diverse opportunities for intellectual, personal and professional growth.

ELASTOPLAZ :

Elastoplaz is an annual National level Technical Symposium organized with an aim to explore and develop newer technologies in the field of polymer science. The event helps unite young, well talented and budding technologists and helps them exhibit their technical innovations. This year Elastoplaz has seen number of sponsors from various companies which contributed to happen it in a big way. Elastoplaz promises to provide young talents with one full day of absolute excitement, intellectual challenges and in short, a memorable and satisfying experience in their life.

PLASTICS AWARENESS PROGRAMME :

This program was organized on the day of Elastoplaz to break the existing myth of "Don't use plastics, Save Environment". The program targeted to the school students, for whom the values regarding the plastics in environment were inculcated. The message of "Proper disposal of Plastics"& "No future without Plastics" reached the school students through Poster Presentations. This programme was a good beginning to start on propagating the Plastics Awareness at a greater level, which would negate the misconception of the plastics prevailing in the society.

PARTA TRUST :

Plastics and Rubber Technology-Alumini is the budding Alumini Association that took its form this academic year. As the usual trend in MIT, more customary in our Department, the Alumni have always been the biggest & the strong support. The association was formed in a motive to gather all our seniors under a single head, who are always ready to contribute back to the department. The association is legally registered and plans of great virtues have been framed to get into action the coming years.

NATIONAL WORKSHOP :

The National Workshop on "Recent Trends in Rubber Components for New Generation Vehicles" took place on 9th & 10th April, 2010 which was jointly organized by Department of Rubber & Plastics Technology and Indian Rubber Manufacturers Research Association. There were more than 20 presentations by renowned technocrats from the industry & research that made the entire conference intact. There were participants from all over the country whose numeral was over 90, which showed the reach of this workshop.

Dr. N. NATCHIMUTHU
HOD, Rubber & Plastics Technology

Dr. L.S. JAYAKUMARI
President, SPART

R.S. VINODH
Chairman, SPART

INFORMATION TECHNOLOGY ASSOCIATION (ITA)
DEPARTMENT OF INFORMATION TECHNOLOGY

Information technology, in the short span of a decade since its birth, is revolutionizing the world in ways we had never imagined. Everything from banking to education and even agriculture has been computerized.

Perhaps, after the invention of the steam engine, the most ground breaking invention is that of the computer. Computers have changed our perspectives, our day-to-day life, and even the world-as-we-knew-it! This has led to an insatiable demand for software professionals and information technologists.

We at The Department of Information Technology, MIT strive to produce world-class professionals who can compete with the industry's best brains.

"*Pursuit of success through Academic, Research and Technical Excellence*" is our motto.

INFRASTRUCTURE

LABORATORY

The computational needs of the researchers are met through well equipped laboratories. The resources in the department are continually updated with the changing industrial trends. The Advanced computing facility has been provided with the latest dual-core processors from Intel.

The department has well equipped laboratories with facilities that are vital to train the students in state-of-art software and hardware. A Digital Image Processing lab is the latest addition to this list. As a part of our expansion initiatives, a new computer lab of about 4500 sq.ft has been setup in the third floor of the IT department. A separate IT department block has also been proposed and is expected to start functioning in a couple of years.

SERVER ROOM

All lab systems have been installed with LINUX operating system. And all Personal Computers are connected with LINUX server (5.2 version)

ADVANCED COMPUTING LAB

This laboratory consists of 52 Pentium based workstations that are well equipped to meet the requirements of regular laboratory sessions that are an integral part of the undergraduate curriculum. All workstations have access to both Linux and Windows platforms.

PROGRAMMING LANGUAGES LABORATORY

This laboratory consists of 65 Pentium based workstations, well equipped to meet the requirements of regular laboratory sessions that are part of the undergraduate curriculum. All workstations have access to Linux and Windows platforms.

One digital board has been installed in this laboratory.

HARDWARE LAB

This laboratory is well equipped with 17 pentium based workstations and also equipped with digital equipments, Micro Processors 8085, 8086 and all related components.

An international conference website namely *"International Conference on Advanced Computing"* has been created in this lab.

PROJECT LABORATORY

15 latest workstations are dedicated to carryout the various Sponsored research and Consultancy projects in the many novel areas of Computer Science and Information Technology.

DEPARTMENT'S COMPUTING FACILITIES

Our Grid Computing Facility is the pride of our Department. The Lab is in collaboration with the GARUDA grid of CDAC. Full time research scholars contribute actively to this revolutionary field under the guidance of Dr. S. Thamaraiselvi, former Head of the Department, Information Technology.

DEPARTMENT LIBRARY

The Department Library is well equipped with over 800 books that cater to the needs of the faculty as well as students, both for academic and research purposes. Volumes from all leading publishers and authors are available in the library. It also has a wide range of CD/DVD collections for use by the staff and the students of the Department.

DEPARTMENT FEST

The Department of Information Technology believes that education should not be confined only to class-rooms and laboratories. Furthering this belief, the department organises workshops and seminars by experts from the industry in their research areas. Industrial visits provide an active exposure to the various concepts related to the subject and current IT trends. They also give the students a feel for the industrial work-culture.

The Department encourages the students to go in for internships to gain hands-on experience of the latest technologies.

SAMHITA, the department's annual technical fest, is organised during the even semesters by the students themselves, wherein, they host a number of contests such as programming contests, technical paper presentations, quizzes, etc.

ASSOCIATION

The Information Technology Association (ITA), established in the year 2001, comprises of the passionate students and intellectual faculty members of the Department of Information Technology, Madras Institute of Technology. The ITA is presently headed over by the Head of the Department, Dr.S.Thamarai Selvi, an ardent educationalist, who is deeply concerned with the continuous and consistent step up of the department.

Our association is home to many budding technology enthusiasts and helps them meet the challenges of an ever changing environment with an eye on all the latest technologies. We strive to empower the computer science engineers and information technologists of our institution with the guidance and tools that are needed to enhance their academic profile. The ITA is involved in the non-academic functions of the department as well for it is aware of the necessity of recreation to boost up one's spirits.

OFFICE BEARERS

The office-bearers are chosen as follows

- Staff Co-ordinator – Mr. R.Gunasekaran
- Chairman – P.Ramkumar
- Secretary – J.Prasanna Kumar
- Treasurer – M.R.Mukund babu
- Joint secretary – R.S.Tamil Selvan

ACTIVITIES

The association conducts many classes concerned with academics and placement to help the students. ITA Placement Tutelage is a placement training programme for the pre final year students of the department. This programme is analogous to the existing recruitment procedure followed by popular corporates.

A Website for ITA (http://ita.mitindia.edu) has been launched which has many features such as

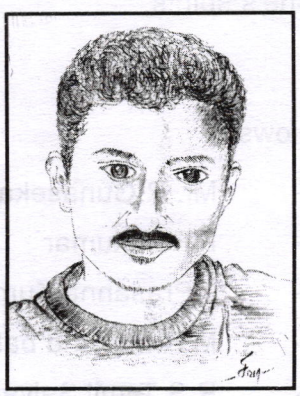
- Textual and video tutors
- Quizzes for self evaluation
- Upcoming events notifications
- Forums to express their views
- Videos related to new technologies
- Weekly algorithm puzzles
- Project ideas

and lot more to help students of the department.

Dr. V. VAIDEHI
HOD, Information Technology

Mr. R. GUNASEKARAN
Staff Co-ordinator, ITA

Mr. P. RAMKUMAR
Chairman, ITA



ATHENAEUM ANNUAL REPORT 2009-2010

Athenaeum is a student body to promote co-curricular and extra-curricular activities of student community. The word Athenaeum comes from the Greek Goddess of wisdom, ATHENE.

- ★ It is founded on the principles of transparency, accountability, Participatory and creativity. Athenaeum is entirely done by student body with elected representatives.
- ★ Athenaeum encourages students' participation in exhibiting their creativity, organizing ability, latent talents, etc. within the campus and beyond the boundaries of their academic activities.
- ★ The wisdom generated in the conduct of athenaeum activities helps the students hone their leadership qualities, entrepreneurial skills, time and people management.
- ★ The annual activities of Athenaeum are dotted with the landmark events such as SIVARANJANI, MITAFEST, and the release of MITMAG magazine.

Sivaranjani '09, the intra college cultural fest of MIT happened September 11th and 12th, 2009. The festival spread its branches to cultural, arts and literary genres. Inaugurated by 'Ilaya Bharathi' Mr. Mathivannan on September 11th in presence of Dr. A. Joseph Stanley, Dean MIT, Dr. V. Subrahmanian, Vice President, Athenaeum, Dr. D. Manamalli, Vice President, Athenaeum and Mr. V. Arumugam, Staff-in-charge of Cultural Club. The chief guest gave a truly inspiring speech making the audience spellbound.

The day witnessed the two events, MIT Super Singer and Foot Loose.

MIT Super Singer is the solo singing event where the MITians go 'Unplugged'! The event had a queue of three scores of students in all. Four finalists picked among them and winners were chosen through democratically voted by all those were patient till the end!

Foot Loose is an equally electrifying event wherein the so called 'dancers' rip off their nerves to their feet and they go in tune with the beat that's way out of control! Needless to say, the event was buzzed with awe struck audience.

Sarees and Pongal really are a delighting traditional pair that makes one's eyes and tongue alive! Athenaeum once again 'tried' to make it alive. Was a good attempt though the whole thing could have had a better laugh with the caption, 'Do not try this at home! These are performed by experts' or with 'Not for Faint hearts, Parental Guidance advised'!!

Literary events were next up after 'Pongal'! The events list reads on as,

- Extempore
- Arattai Arangam
- Shipwreck
- Kavidhai
- Quiz
- Story Writing

Quiz took the pride of the Star event. Backed up by the engrossed audience, the events had a high participation level and the number went above the average expected figures. Overall the enthusiasm of the MITians who witnessed the events went soaring up!

The Fine Arts section of Sivaranjani '09 had a warm welcome among the students too. This list comprised of,

- Rangoli
- Mehandi
- Hair Dressing
- Nail Art
- Facial Painting
- Pencil Drawing

Rangoli, Mehandi, Nail Art and Hair Dressing turned out to be Girl's section of the fest. But the healthy participation is worth applauding. Materials for Pencil Drawing, Rangoli, Nail Art and Mehandi events were taken care after the Athenaeum while the participants of the other 'Non-Sponsored' events (!) had to bring their own goodies. These events brought out many Picasos and Da Vincis to the limelight of MIT!

The events which really worth more than mentioning are the cultural ones., Choreo, Singing, Variety and Pot-Pourri. This genre saw the greatest participation and also attracted a very large crowd. The events that were held are:

- Choreo Nite
- Variety
- Ad Zap
- Short Film Making
- Pot Pourri

The Short Film event made the Rajam Hall look more like a small classroom as it pulled a real load of crowd. It featured 8 films handmade by students. The Pot Pourri event made the Rajam Hall to witness a huge crowd which it had seen never before. Finally the spotlight fell on the Mega events Variety and Choreo Nite, which turned out to be the best of events of SIVARANJANI '09.

All's well that ends well. Sivaranjani '09 saw a gracious and grand Inauguration, followed by enthusiastic and talented participation of students in challenging and entertaining events and thus an apt and satisfying treat for everyone.

After Valentine's Day for all those people who expected fun, the answer came out, 'MITAFEST'. The three days were packed with exciting events with students buzzing the place from across the state. The Second Night of the Fest saw the much awaited Pro-show happen. Ace singer Vijay Yesudas left the audience in a state of trance with his melodies, while Malathi (of Manmada Rasa fame) and Div(y)a got the crowds to their feet with their peppy numbers.

After the Buzz of the previous day no one had a clue what was in store next. Pumping the adrenaline rush, there came the 'Ghost Riders' backed up by Bani a.k.a Gurbani Judge, one of the sizzling VJs of M TV. It was the Pulsar Stunt Mania of M TV which ripped the Historical Hangar of MIT apart over flowing with people. 'Oooh' and 'Aaah's filled the place as the Stunters left the audience Open Mouthed! Other key events included Arattai Arangam where famed Mr.Raja left the people with an ache in the stomach due to excessive laughter and a Workshop by the National awardee, Mr. Thangarbachan, who gave a share of his experience to all those aspiring minds.

The Last day featured two mega events, the Fashion Show and the Inter-choreo. SRM divas and dudes gave a sizzling hot performance bagging the first place, followed by Loyola. Inter-choreo was a treat to the eyes in more than just one sense - what with the three happening Kollywood heroes Adhi (Eeram fame), Nithin Sathya and Vijay (Chennai 600028) adorning the already-glitzy evening!

Thus, the event which had months of brain-wracking and painstaking from the organizers and event-managers, took place with such pomp and splendor! And oh, not to forget our sponsors Basics 029, India Cements, Indian Bank and Vasanth TV.

M. Rajesh
Final, AERO
Chairman

COMPUTER SOCIETY

Computer Society, a student body of MIT Campus was inaugurated for the activities of the year 2009-2010 in the mid of August. Beginning then, sessions were held from 5 pm to 6 pm for students from all branches. There were C, Java, Algorithms, and Data Structures classes for circuit stream and CATIA classes for mechanical stream. The most sought after ones were the sessions on Linux. We conducted the aptitude tests every Thursday which we jointly organized with PDA.

Community Service is also an integrated part of our activities and we conduct computer courses for government school students in and around Chrompet, Chitlapakkam on every Saturday and provide them with school bags and kits.

An intra college monthly extravaganza, 'Juggernaut' not only test student's aptitude skills but also challenges them with the intricacies of their core knowledge.

'Enigma', an intra college technical fest was conducted in the start of October and contests like Debugging, MuPro, Circuit Designing, ConfigureIT, Networking and a special Juggernaut was organized as a part of it.

The silver lining of our activities 'CarteBlanche' , an inter college technical symposium was celebrated during the end of February in which students from all over TamilNadu participated in many events. Around 20 demos related to free and open source software(FOSS) were exhibited. Two one day workshops on 'Beagle Board' and 'Android mobile platform' were conducted in this fest. Three lectures were delivered by eminent personalities Mr.Santosh Thottingal, Python Developer on 'Indic language processing and FOSS', Mr.Ramadoss on 'Tamil Computing and FOSS'. The highlight was the teleconferencing session by the father of free software movement Dr.Richard Matthew Stallman himself. He is one of the researchers at the artificial intelligence lab in Massachusetts Institute of Technology. His talk enlightened the students about GNU and FOSS.

K. Ajay
Final, IT
Chairman

PERSONALITY DEVELOPMENT ASSOCIATION

"If you have anything really valuable to contribute to the world it will come through the expression of your own personality, that single spark of divinity that sets you off and makes you different from every other living creature." **- Bruce Barton**

Personality Development Association, a student organization of MIT, owes its genesis to the idea envisaged by five students during the academic year 1984-85. The association was formally inaugurated on 4th February 1985 with the active support of Prof. K.V. Narayanan and Dr. S. Renganathan. Ever since its dawn on this significant day, PDA has been unrelenting in its efforts to foster the consummate personality development of the students.

Our motto of "DISCOVER YOURSELF" resonates with the inspiring words of Aristotle - ***"Knowing yourself is the beginning of all wisdom".***

The PDA plays an active role in shaping the overall personality of every individual. The kind of platform that PDA renders to the students in their formative years of college life helps them stand in good stead to perform phenomenally well not only in the ***Placement activities*** but also in their quest for ***Higher studies***.

The following events of PDA exemplify its dedication to development of students.

1. Weekly aptitude tests and classes raise the pedestal of problem solving skill of MITians. The PDA team has successfully organized 16 tests so far with an average participation of 300 test takers every week. The one hour aptitude classes, conducted on Wednesdays and Fridays, have strengthened the aptitude skills of actively participating students.

2. Saturday session has been in the forefront for enhancing the communication skill of students In this academic year 8 sessions have been managed with an average participation of 50 students per session.

3. PDA library that caters to the taste of all kinds of readers. The newly renovated library near Guest House in Hostels, has a collection of 1500 books apart from dailies, weeklies and fortnightly magazines. In the current academic year, books worth Rs.15000 have been newly added to the library.

4. Smart sessions-an academic oriented programme-knocks down the barrier to learning for tamil medium students Challenging subjects on all disciplines are taken regularly by third year and final year students for the juniors on three days per week.

5. **PERSOPLUS**-the official biannual magazine of PDA-has been the pulse of MIT Two editions of Persoplus have been published and they are also available in our website for e-readers.

6. **LAUNCHPAD** - an initiative with industry connection, has helped many a student to tune to the needs of the competitive world. 15 students took part in the launch pad session conducted during this academic year.

7. **PERSOFEST '10** - The grand Finale and the Mega Fest of PDA was successfully held on 7th of March, 2010. A variety of events including Literary, Art, Oratory etc., were conducted. Some of the Notable events were the "Wake Up MIT", "Stage Craft", and "Ryt a Blog", which explored the hidden talents of the MITians. The Mega event Mr./Ms. Persofest pulled 670 students to take the prelims, and tested versatile skills of the students with its distinguished "Heptathlon" format. P. Balamurugan and S. Sindhuja of third year Electronics were crowned the Mr. & Ms. Persofest for the year 2010.

8. CAT & GRE classes- Regular classes were conducted during odd semester to train the students to crack the toughest competitive exams like CAT, GRE etc.,

9. Mock Interviews for the Current third years were conducted with the help of seniors from various companies, during second week of April, to make them prepared for the Campus recruitments.

We believe that this year activities would have edutained the students and fostered them to improve their personalities. We would wish the same to be continued and improved in the forth coming years too.

N. Muthuraman
Final, PT
Chairman

NATIONAL SPORTS ORGANISATION (NSO)

M I T Students are very active and participated in various sports events and brought many distinctions in various sports & games and earned a very good name and fame to MIT. Details of distinctions and positions captured by the students are as follows:

a. Students selected for Anna University Team 2009 - 10 and participated in the Inter University Level Tournaments.

1. **A. Sarojini Devi, Second Year - IT** took part in the **All India Inter University Swimming Championship** held at Gurunanak dev University, Amritsar, Punjab in the Month of October 2009.

   A. Sarojini Devi, Second Year, IT, received a Sports Scholarship for her best performance in Swimming (2008 - 09), to a tune of Rs. 6,600/- from Sports Authority of India in the month of January 2010.

2. **K. Vasanth, First Year – ECE**, took part in the **All India Inter University Kho-Kho Championship** held at Kakatiya University, Warangal, Andhra Pradesh during 18th to 26th September 2009.

b. Sports Achievements by MIT Students at the State, National and International Arena

1. **P. Uthra, I Year, ECE**, was a member of chess Team of India which took part in the **Asian Junior Chess Championship** held at Sri Lanka during 01-07-09 to 08-07-09 and obtained **8th Position**, also **Participated** in **Netherlands Circuit Tournament** held at Netherlands during 10-07-09 to 01-08-09, secured **5th Position** in **Asian Youth Chess Championships** held at New Delhi during 02-08-09 to 09-08-09.

   P. Uthra, I Year, ECE Obtained WOMEN FIDE MASTER title in 2009.

2. **R. Pradeep Kumar, I Year, E&I**, was a member of chess Team of India which took part in the **World youth Chess Championship** held at Kermer, Atlalya, Turkey during 01-07-09 to 23-11-09 and obtained **19th Position**, **Secured 14th position in 39th U-20 National chess Championship** held during 20-11-09 to 28-11-09, **Secured 1st Position in School Games Federation National Chess Championship** held during 13-02-09 to 17-02-09. Secured **6th position in International Fide Rating Championship** held during 11-07-09 to 21-07-2009.

3. **R. Suganya, IV Year, ECE** participated in the **All India Foot Ball (Women) Tournament** held at Neyveli in the month of February 2009 organized by Tamil Nadu Foot Ball (Women) Association, Participated in **India Senior Women Coaching Camp** at Barabati Stadium, Cuttack, Orissa during 30th September to 15th November 2009.

4. **K. Anandhi, I Year- Aero,** took part in **54th National School Athletics Champions,** organized by **School Games Federation of India** Held at Maharaja's college stadium in Kochi, Kerala in he Month of January 2009 and created a **New Meet Record** of 1.68mts in **High Jump,** secured **1st Position** in **Senior Nationals - U18** held at Bengaluru in the month of September 2008, secured **1st Position** in **Open Junior Nationals** held at Mysore in the month of November 2008.

5. **K. Vasanth, First Year – ECE**, took part in **53rd National School Games Kho-Kho Championships,** organized by **School Games Federation of India** held at Andhra Pradesh during February 2009 and secured **1st position,** also took part in **50th Tamilnadu State Kho-Kho Championships,** organized by Tamilnadu State Kho-Kho Association held at Madurai, Tamilnadu during February 2009 and secured **1st position.**

6. **J. Birundha, First Year – ECE,** took part in **2nd Junior State Sepak Takraw Championship** held at Chennai, Tamilnadu during 21-05-08 to 23-05-08 and secured **1st position,** Participated in **23rd King's Cup Sepak takraw Championship,** held at Bankok, Thailand, during 25-08-08 to 30-08-08.

7. **Sunandha Ramesh, Third year – CSE** took part in **Tamilnadu State Roller Skating Championship** held at Chennai, Tamilnadu during the month of September 2009 and secured **1st position in 300 mts** and **3rd position in 3000mts.**

8. **S. Priyadharshika, Third Year – ECE**, took part in **Anna University Inter-zonal Athletics Championships,** Organized by **Kings Engineering College, Puthukottai** held at Puthukottai, Tamilnadu during December 2009 and secured **2nd position** in **Javelin Throw** & **Heptathlon** and **3rd Position** in **Shot-put** & **Discuss Throw.**

9. **S. Ramkumar, Final Year - IT**, took part in **Anna University Inter-zonal Athletics Championships,** Organized by **Kings Engineering College, Puthukottai** held at Puthukottai, Tamilnadu during December 2009 and secured **3rd Position** in **400mts Hurdles.**

List of Medal Winning performances in Anna University - Zone IV Tournaments: -

S. No	Name of the Game	Venue	Position	Medals
I - Games				
1	Table Tennis (Women)	Andal Alagar College of Engineering	I	Gold
2	Chess (M&W)	Valliammai Engg College, Potheri	I	Gold
3	Volley Ball (Women)	Madha Engineering College, Kundrathur	I	Gold
4	Ball Badminton (W)	Krishnasamy Engineering College	II	Silver
5	Hockey (Men)	MIT, Anna University Chennai 44	II	Silver
6	Badmintcn (Men)	V.R.S College of Engg & Tech.	II	Silver
7	Table Tennis (Men)	G.K.M. College of Engineering	III	Bronze
8	Tennis (Men)	Sri Sairam Engineering College.	III	Bronze
9	Athletics (Women)	100 Mts Hurdles, High Jump, Shot Put, Discuss Throw, Javelin Throw, Hammer Throw , Long Jump, Triple Jump and 4 x 100 Mts Relay	I	12 Golds
		10,000 Mts, 400 Mts Hurdles and Hammer Throw	II	3 Silvers
		10,000 Mts, Half Marathon, Long Jump, 4 x 400 Mts Relay	III	7 Bronze
		Over All Individual Championship Won by Ms. S. Priyadharshika - III Year ECE & Ms. K. Anandhi - I Year Aero.		
		Athletics Women Team Won the **OVERALL CHAMPIONSHIP TROPHY - FIRST PLACE**		
10	Athletics (Men)	400 Mts, 110 Hurdles, 400 Hurdles, 4 x 100 Mts Relay and 4 X 400 Mts Relay.	I Place	11 Golds
		Half Marathon, 20 KM Walk, 800 Mts, Hammer Throw and 400 Mts Hurdles	II Place	5 Silvers
		10000 Mts, 5000 Mts, Hammer Throw and Decathlon Events	III Place	4 Bronzes
		Over All Individual Championship Won by Mr. S. Ram Kumar, IV Year IT, First Place		
		Athletics Men Team Won the **OVERALL CHAMPIONSHIP TROPHY - FIRST PLACE**		

List of MIT Team Members (Women) Won the Medals in Athletics: 2009-10

S. No	Name of the Student	Year / Branch	Event	Position
Women				
1	S. Priyadharshika	III ECE	Shot Put , Hammer Throw, Discuss Throw and Javelin Throw	Gold
2	K. Anandhi	I Aero	100 Hurdles, Long Jump, High Jump and Triple Jump	Gold
3	Sunanda Ramesh	III CSE	4 X 100 Mts relay	Gold
	R. Nivetha	II CSE		
	N.R. Harini	II IT		
	K. Anandhi	I Aero		
4	A. A. Sarojini Devi	II IT	10,000 Mts	Silver
5	M. Anusuya	IV ECE	Hammer Throw	Silver
			Discuss Throw	Bronze
6	N.R. Harini	II IT	400 Hurdles Long Jump	Silver Bronze
7	T. Saranya	III ECE	Half Marathon	Bronze
8	S. Priyadharshika	III ECE	4 X 400 Mts relay	Bronze
	N.R. Harini	II IT		
	A.A. Sarojini Devi	II IT		
	R. Nivetha	II CSE		

S. Priyadharshika, III ECE &
K. Anandhi, I Aero
Won the Individual Championship Trophy

Athletics Women Team Won the Over All Championship Trophy (Winners - Up)

List of MIT Team Members (Men) Won the Medals in Athletics: 2009-10

S. No	Name of the Student	Year / Branch	Event	Position
Men				
1	S. Ram Kumar	IV IT	400 Mts,110 Hurdles and 400 Hurdles	Gold
			800 Mts	Silver
2	S. Ram Kumar	IV IT	4 X 400 Mts Relay	Gold
	N. Vishnu Shankar	IV ECE		
	D.R. Rajendraa	II E&I		
	T. Gowtham Raja	II Prod.		
3	R. Ahamed Faizel	IV ECE	4 X 100 Mts Relay	Gold
	S. Ram Kumar	IV IT		
	V. Vignesh	III Auto		
	Akilesh Mathivannan	II Auto		
4	A. Prem Kumar	III Auto	20 KM Walk & Half Marathon	Silver
5	B. Santhosh	III Auto	Hammer Throw	Silver
6	T. Gowtham Raja	II Prod	400 Mts Hurdles	Silver
			400 Mts	Bronze
7	R. Madan Raj	IV Prod	Decathlon	Bronze
8	Va. Kavin	II E&I	10,000 Mts & 5000 Mts	Bronze
9	S. Balamurugan	I Auto	Hammer Throw	Bronze
S. Ram Kumar, IV Year IT, Won the Individual Championship Trophy				
Athletics Men Team Won the Over All Championship Trophy (Winners - Up)				

S. Ramkumar
Final IT, Chairman

NATIONAL SERVICE SCHEME (NSS)

NSS-MIT is functioning with the objective of developing the personality of students through community service. The motto is *'NOT ME BUT YOU'*. It underlines that the welfare of an individual is ultimately dependent on the welfare of the society as a whole.

In MIT, currently there are five units, each consist average of fifty students and each unit is motivated by one programme officer. In addition, a good number of energetic student office bearers will involve and help to perform the various activities.

INAUGURAL FUNCTION

Inaugural function was conducted on 01.09.2009 with the Chief Guests Mr.Pa.Ganeshan, Senior Vice President of Exnora. and Mr.S.Dinesh Raj, President of Evergreen Helping hands trust, Dr.A.Joseph Stanley, Dean, MIT Campus along with NSS Coordinators, Programme officers, Chairman, Secretary, Treasurer, staff members and nearly 250 students in Rajam Hall, MIT at 5.00 p.m.

NSS DAY CELEBRATION

On 28th of September 2009, at 4.30 PM, NSS day function was successfully celebrated with the Chief Guest Mr.S.Indra Kumar, President of Exnora and Dr.A.Joseph Stanley, Dean, MIT along with NSS Programme officers, Office bearers, staff members and nearly 250 students participated in NSS day celebration.

In this function, the Chief guest and Dean distributed nearly 20 prizes worth of thousand rupees to the winners of NSS day competition which was held in the regular classes before National Service Scheme day celebration. Later on, our NSS Coordinator Mr.S.Elango gave a brief lecture about NSS day. Chief Guest Mr.S.Indra Kumar, President of Exnora had a few words about solid waste management also how to keep reuse those wastes in useful manner. Finally few slides of their waste management system gave a clear idea about Exnora and their solid waste management.

REGULAR ACTIVITIES

* Regular classes were conducted to the First year NSS students where Personality Development classes and field works were organied (Cleaning the campus).

* ***Seminar About Cancer Awareness***

For the welfare of the students of MIT, NSS conducted a seminar regarding *'Tobacco causing Cancer and its awareness'* with the help of Cancer Institute, Adyar, Chennai at MIT. Dr Sareetha, Cancer Institute, Adayar, Chennai took the seminar with the presence of NSS programme officers, student office bearers and nearly 250 students for more than an hour.

* ***World AIDS Day Function***

On behalf of World AIDS day function on 1st of December 2009, we conducted many competitions for the students like Essay writing, Pencil drawing, Drawing with the topic " WORLD AIDS DAY" were held on 27'th of November 2009 in the presence of National Service Scheme Coordinators where nearly 100 students participated in this competition and nearly 10 prizes were distributed to the winners by our NSS programme officers on 1'st of December 2009.

* **WORLD'S AIDS DAY FUNCTION IN SSN COLLEGE:**

Nearly 25 best students of National Service Scheme where selected and those students taken for the WORLD'S AIDS DAY celebration with our NSS programme officers to SSN College of Engineering, where the function was organized by Anna University, Chennai and SSN College of Engineering, Chennai and nearly 100 Engineering colleges were present. There many competitions like Essay writing, Speech and many events were conducted to the NSS students of all colleges where students of our college participated and awarded with many prizes.

* **TREE PLANTATION:**

Everyone owes a great deal of responsibility in preserving and protecting our mother EARTH .As an initiative towards averting the effects of global warming, we NSS students have conducted a campaign suggesting "GO GREEN". As a part of this we organized Tree Plantation programme in MIT campus and annex which was inaugurated by the Dean of MIT Dr.Joseph Stanley, on Feb 17th ,2010 .

* **ORPHANAGE VISIT:**

To motivate awareness about the society, and impart helping tendency in the young minds we organized a visit to 'REACH KARUNAI ILLAM(orphanage)' ,located at Madampakkam ,Chennai on Feb 28th,2010. NSS Volunteers have interacted with the children in the orphanage and stressed the need and importance of education to them.

M. Munidurai
Final, PT
Chairman

WEB TEAM, MIT

"Face is the index of mind".So is a Website to any organisation. To an educational insitution, its website is the gateway for the world to know the college! To hundreds of mitians, its sites give the daily updates ! To thousands of MIT aspirants it answers all queries from where it is to what it is ! To the lakhs of technocrats across the globe its website is the one repositere of all that it has got to show the world ! This is precisely what "www.mitindia.edu" does for MIT . Web Team of MIT - An enthusiastic team of the vibrant minds was formed last year to make this possible for "mitindia.edu" .

Its activities are two fold :

'Share what you know' :

To enrich the knowledge of web designing , web hosting, everything associated with the three 'w's , the web team conducts regular classes on

- Mark up and scripting languages
- HTML, XML , JAVA SCRIPT , PHP
- Site developers like Joomla, Drupal, Wordpress.

The classes - apart from the usual theory sessions includes live demos , lab sessions, query clarifications are categorized and conducted separately for the beginners , learners and the advanced minds thus suiting every one in the web .

'Show what you know ' :

The web team of MIT maintains the following websites :

* www.mitindia.edu
* www.alumni.mitindia.edu
* www.asymptote.in
* www.mithostel.mitindia.edu
* www.webteam.mitindia.edu
* www.rotaract.mitidnia.edu

Right from the monthly mess bills of the every MITian and news on the conferences/ seminars held / to be held , to the details of every department and faculty the website hosts all information. College related websites hosted under the domain of mitindia.edu are

* www.pda.mitindia.edu
* www.rotaract.mitindia.edu
* www.ita.mitindia.edu
* www.flight.mitindia.edu
* www.csmit.org
* www.mithostel.mitindia.edu

Mohammed Yasar Arafat
Final, IT
Chairman

YOUTH RED CROSS (YRC)

-Serving people

The International Red Cross Movement is the well-known and worldwide humanitarian organization, present in almost all the countries. The fundamental principles of Red Cross Movement are

- Humanity
- Impartiality
- Neutrality
- Independence
- Voluntary Service
- Unity
- Universality

The **Youth Red Cross** is the most important constituent of its mother organization, Indian Red Cross. It is a group movement organized at the initial stages for students between 18 and 25 years of age within the colleges.

YRC – MIT (2009-10)

The YRC unit in MIT in the academy year 2009-10 comprises of three batches of 50 first year students each headed by Office Bearers Mr. P.Sadagopan, Mr. S.Thanigai Arasu and Ms.T.Subashri. The Office Bearers are assisted by a dynamic, devoted, energetic, enthusiastic and service-minded student body headed by Mr.Mano, Chairman and Mr.Pon Venkata Prasad, Vice Chairman. Youth Red Cross in MIT operates under the three global principles of YRC

- Protection of health and life
- Service to the sick and suffering
- Promotion of National and International friendship

FIRST AID SESSIONS

Every step taken by YRC is under the guidance of the above three principles. YRC for the year 2009-10 is **inaugurated by the head of EXNORA Chennai**, in a note to manage and take care of the lavish trees and greenery in the MIT Campus. It also signified the sound need for Solid Waste Management for a cleaner and greener MIT campus. The interests straightaway

shifted to the Health and Disaster Management system and YRC conducted **First Aid Sessions** (Certified) in Campus by trained professionals from St. John Ambulance which gave enormous awareness for students on various first aid measures ranging from ailing stomach to wounds of a Tsunami victim. It is followed by the **Road Safety programmes**, keeping in mind the vast number of day scholar students in MIT, hailing from all parts of Chennai, in whatever modes of transport available. The Road Safety Programme brought into light the various signs and rules of road use as well as the etiquette to be used in a road. YRC found the plight of the Blind in the world waiting to see their first light and conducted **Eye donation awareness session** with Dr. A.P.Irungovel from Sankara Nethralaya hospital. The session became huge popularity with large number of students and their parents coming forward to donate their eyes for the welfare of blind. The year progressed with **awareness session on Right To Information Act** the most powerful weapon against a corrupt government by common public. The stress factor that is common among students in prestigious high range universities remained as a concern and a **Stress Management session** is conducted to make the students handle their Academic pressures.

Apart from these sessions Youth Red Cross also handles the responsibility to mould the students' future and the way they see the world around them. YRC hence organised a **Visit to the Orphanage** "Child Haven" in Kaliyampoondi, Kanchipuram dist. The orphanage had a huge mental impact on the students as they visualised the children with different conditions jelling together.

Youth Red Cross – Teamwork:

The Student body of YRC plays a vital role in organising all the sessions and other events. It is the spirit and joy to serve others as a group that motivates YRC MIT to step ahead each and every year.

Team YRC 2009-10

A **Blood Donation Camp** is conducted on October 09 with huge response from all students and staffs with over 110 units donated to the Blood bank IRCS. Blood Donation is not a once in a year activity for YRC as a separate **Blood Donors Directory** is maintained to help out accident victims and all other emergency cases. Around 300 units are donated each year by the donors from MIT visiting the victim's hospital even on odd hours. The best ever activity by YRC MIT is the daily **Blind Reading session** for the Visually Challenged Persons all around Chennai. Visually Challenged nearby college come over to get helped by the volunteers in their studies.

YRC – miscellaneous activities:

YRC celebrates YRC day with competitions for first years over a week period and with prize distribution for the winners later on. Special one day camp is also conducted on behalf of IRCS for the Kancheepuram dist, for students and staffs of all engineering colleges in Kancheepuram district.

One day camp

The one day camp featured a peek into YRC history, Disaster Management and avoidance of high risk behaviour.

YRC – song and pledge:

The YRC song depicts the service to humankind concept which has to be sung before the beginning of any YRC activity.

Darthi karo nirmal karo beeda prabu hey
Jeevan karo vujval nava jyothi baro hey 2
Dukki jananki seva hum kare 2
Baththali thonko gale lagale 2
Shanthi badha shanthi kaarya shanthi varada hey!
Jeevan karo vujval nava jyothi baro hey!
Nava jyothi baro hey, nava jyothi baro hey!

YRC camp visit:

YRC organises camp visit at the end of an academic year which involves visiting a remote village camp spot and servicing the people.

Fire Fighting Demonstration in Camp Spot

The camp spot during the year 2008-09 was Oragadam village near Thirukazukundram. The seven day camp buzzed with activities – field work, fire-fighting demonstration, Medical awareness program, Medical camp, Literacy awareness program, Censes work, Rally, Tree Plantation and a visit to Irular Tribal Women Welfare Society. The Camp Visit is the suitable end to a year full with activities and marks the formation of a new student body with more vigour and energy.

M. Mano
Final, EC
Chairman

ROTARACT CLUB OF MIT

Rotaract Club of MIT is a student organisation that has been started in the year 1992 with the ultimate aim of serving to the needy part of the society and to develop social responsibility among our college students. Rotaract creates in students mind, an awareness of needy people around us and help them realize the unparalleled pleasure in helping those.

Our activities for this academic year commenced on the Independence Day 2009 and it was a memorable and enjoyable day for the kids of Chenneri Government School. We conducted literary events for the children on that day and also distributed about 170 pairs of footwear(that they did not use until then) along with the prizes for the winners in those literary events, On 2nd September , the Rotaract club of MIT was formally inaugurated for the year 2009 – 2010 with the august presence of our Dean Dr.A.Joseph Stanley, Staff Advisor Dr.K. Kalaichelvan and parent club members from Rotary club of North West Madras. Our inauguration also saw the huge participation of MITians of about 85 students signing up for the noble Eye Donation.

October 10th, Rotofest'09, a day for differently abled children to have fun and exhibit their varied talents. More than 150 students, including visually, mentally, physically challenged and hearing and speech impaired children , participated in variety of events such as carrom board, chess, drawing, creative writing,singing, craft,and others and spent time communicating with us. Breaking the different physical challenges, those students performed culturals in the day end that well reflected their self confidence.It was an unforgettable day which provided our students the introduction of differently abled children and their self confidence. Lots of Mitans were active in interacting and encouraging the differently abled kids,making the event successful.

Our volunteers had their Diwali celebrations with the Jerome home students at their home in Pallikaranai. Thus, they made the day colourful and happy for those kids.

New Year's day was special too, with celebrations in Udhavum Ullangal home, SingaperumalKoil.

On Jan 24th, a medical camp was conducted in the Udhavum Ullangal for the benefit of those children.

Jan 31st was the greatest milestone in the activities for this academic year – Sparish'10, an event of entertainment and talent show for 290 children from 8 orphanages – Seventh Star home, Reach karunai illam, Balashram, Dazzling stones, Sri Sarada Sevasram,Ramamoorthy home, Sri Atheeswarar home and Child sheltered home. The Day was made as a variety of literary events, informal events and cultural show and it was much entertaining and also revealed the talents of those kids. A well entertaining magic show has been arranged to make the kids much happy(It was the first time for most of those kids to see a live magic show). Transport and food for the children for the whole day were taken care of by us.We also gifted provisional items worth Rs. 800 for each home.

On Feb 7th, a group of Mitians took the children of Seventh Star home on a day trip to Vedanthangal bird sanctuary. It was a pleasant trip that exposed the children to the beauty of nature in the wild.

Apart from these events, the regular activities of the Rotaract club include teaching the school children at Balashram home, chromepet, and the conversion of books (English and Tamil) into audio format using software – a small aid we are able to give the visually challenged. The volunteering of the MIT students for these activities inspite of their demanding academic schedules has been very encouraging for us.

It's Time to thank to those who are behind those list of activities. We also thank all the volunteers and team members for successfully executing all our proposed activities.

Atham Muhajir
Final, RPT
Chairman

Alumni Pages :

Reminiscence from Dr. Sethuraman, Former Professor, MIT

I attended the inauguration of the MIT in 1949, when my cousin (T.No 80) joined the institution as a first batch student in the Aeronautical Engineering Faculty. Since the annual fees for the course was very high (Rs 1000!), I decided not to join MIT but then I was impressed by the staff recruited from abroad to head the various Departments. They were mostly from Germany and neighbouring countries who were de-mobilised after the Second World war; who were inspired by the devotion and the hard work put in by the promoters whose only aim was to impart quality education: Sri Rajam Iyer who sold his palatial house in Mylapore for 5 lakhs and acquired the land and the buildings at Chromepet belonging to the Defence Department. Other promoters like Sri Subbaraya Iyer, a very leading lawyer in Mylapore, gave financial support in a very large measure. They consulted leading educationists from abroad about the emerging areas in Engineering and not those already in existing in the other Institutions in India to cater to the areas likely to be most required in the future and decided on Aero, Auto, Electronics and Instrument Technologies. This itself was very new concept those days. The local authorities were not too pleased with these ideas and there was an initial resistance .These vanished when the prime minister of India, Jawaharlal Nehru then consented to inaugurate the Institution in July 1949. Looking at the enthusiasm of the founders The Hindu predicted in its editorial next day that this would to be another Massachsutes Institute of Technology in due course. Unlike the present crop of self financing promoters, they did not use the institution as a cash cow to earn very large fortune for themselves and place themselves in top administrative positions to monitor the profits from the venture. Perhaps they did a foolish thing in this as it will be seen later in this article.

At about that time I wanted to become a technical assistant in the electronics faculty and appeared before Mr Kennaqth Cleark for the position. He went through my articles and advised me qualify better and apply after that. I thought my connection had ended there and I thought of qualifying further. I went to Gujarath and did my M.Sc there and joined The Physical Research Laboratory of Dr Vikram Sarabhai for my Ph.D. and completed it. At that juncture Dr Sarabhai offered me a position there but I wanted to try my luck at the MIT once more. Incidentally he started The ISRO next year and many of those who worked with me there like Dr U R Rao (who became the third chairman of the ISRO later) took up the offer and became the

founding employees of the organisation. I took up the position of an assistant professor in the electronics faculty in November 1959. The building west of the IT faculty was the electronics faculty and the classes were held in the three sheds there. By that time the institute was in deep financial trouble and the founders had to put in very great effort to pay our salaries on the first day every month! They acquired a very large number World War II surplus and the students including Dr Abdul Kalam constructed a wind tunnel and glider under the guidance of Prof Repentin who was also responsible for the present aero building. We also converted into lab equipment from these including oscilloscopes and equipment for the various facilities. (This was the penalty the founders paid for not charging any capitation fee which was totally unknown to them!) This instilled in the confidence and a large number of them started their own manufacturing units after graduation and they flourished famously thereafter.

I indicated earlier that the driving force of the Institute in those days was the dedication of the founders, the love and affection and commitment of the teachers and the bright students who were denied admission to the engineering colleges after passing the intermediate examination, due to various reasons and were given the second chance for becoming engineers after their B.Sc. and who wanted to do their best after joining the Institute. This was the cause for their brilliant performance here and afterwards in their lives, It was a pleasure for me to be teaching them. I was the Faculty of Electronics and I recall Profs P V V S Sastry, Sitaram and K V Sastry, A Lakshminarayanan and others for the great work they put in then. We had three years undergraduate course, and were taking all the classes, seminars and project work without any complaints for a number of years, Besides, the Electronics faculty initiated Research work by getting the projects from outside agencies like the UGC,CSIR etc. The situation was the same in other faculties also. I think the first Institution in South India to initiate research wok as a part of the Academic work was the MIT at that time. However, the financial situation worsed further in spite of the great efforts at that time the founders who approached a number in leading Industries then to take over the Institute but apparently they were not successful and we were afraid the Institute would be closed down ! However, we were saved from this from an expected source.

MIT and its Alumni Association (MITAA) - a Recap of the Relationship

The relationship between MIT and the MIT Alumni Association has been a very unique bondage which has been progressing well over the last 44 years and has been a cyanosure of alumni of other Institutions around the country.

THE MADRAS INSTITUTE OF TECHNOLOGY

Thanks to the foresight of a group of luminaries, and the munficence of the founder Mr.C.Rajam, the Madras Institute of Technology was born in the year 1949. At a time when all the engineering colleges were only offering traditional subjects like Civil, Mechanical & Electrical Engineering, the founder decided to go in for four new disciplines of Engineering in Aeronautical, Automobile, Electronics and Instrumentation. This was a pioneering step, which was amply justified by the subsequent striking growth in these fields made by the country. Instrumentation as a branch was not even heard of in this country at that point of time and it was only much later that other Institutions included Instrumentation as a branch in their curriculum. A second departure was made from convention in that the courses were designed as three year courses and entry was open only to science graduates.

The founder : The Founder , Mr. Chinnaswamy Rajam (1882 - 1955) who in later years was acknowleged by the late Dr.C.P. Ramaswamy Iyer, as "a pioneer in the industrial field" made a very humble beginning, by trying his hand at various activities like running a grocery shop, canvassing orders for a tannery firm, running a leather goods showroom etc. He launched several companies, for instance, in 1918 he started the India Company carrying out various activities, started the Kumbakonam Electric Supply Corporation Limited in 1932, Nagapattinam Electric Supply Company Limited in 1933 and India Steel Rolling Mills in 1933. It was during the construction and commissioning of the steel rolling mill that Rajam felt the urgent need to develop indigenous manpower to reduce the high cost of hiring foreign manpower and that set in the process of establishing Engineering Institute in the country. In 1944 when he lost his wife he decided to reduce his personal comforts and wanted to serve society to the best of his ability. He sold two of his bungalows which at of that time fetched him rupees Five Lakhs and the entire proceeds were donated for starting of the MIT. For such a visionary, the only repayment that can be made to him would be in the form of outstanding Alumni who can carry forward his mission by contributing their mite to the country in the form of technological achievements and excellence. The later generations of the Rajam family, have also been associating themselves with all the activities and advancement of the Institute very enthusiastically. The MITAA salutes its founder and remains indebted to him for his contribution.

Mr. Rajam was ably assisted by a number of distinguished friends of his like Sir Sarvapalli Radhakrishnan, the second president of the Indian Republic, Mr. M Subbaraya Iyer (1885 - 1963), Mr. K. Srinivasan(1887 - 1959) Editor of the The Hindu, Mr. C R Srinivasan (1889 - 1962), Editor of the Swadesamitran, Dewan Bahadur L Venkatakrishna Iyer, Mr. M K Ranganathan the Founding Director of the Institute and a few others.

The first Convocation of the Institute was addressed by the First Prime Minister of India, Pandit Jawaharlal Nehru in the year 1952. The late Mr. N Srinivasan a specialist in the field of Aeronautical Engineering and a former Deputy Chief Engineer of the HAL, Bangalore, took over the reins of the Director from Mr. M K Ranganathan in 1954 who by then, by his selfless hard work had set the way for the Institute in the path of glory. Mr. Srinivasan further developed the Faculty of Aeronautical Engineering and he was responsible for the establishment of the MIT Athenaeum, a student organisation for extra curricular activities. Professor K Srinivasan Acting Director of the IISc. took over as the third director in 1960 and continued to be the director till 1971. During his tenure he was responsible for starting PG courses in Aeronautics and Electronics. The implementation of the recommendations of the Reviewing Committee of the GOI in 1963 and obtaining financial agreements took place during his tenure. In 1971 Prof. T.Krishnan, a specialist in the field of Radio Astronomy took over as the fourth Director. In February 1975 the Silver Jubliee celebrations of the Institute were Inaugurated by the then Prime Minister of India, Mrs. Indira Gandhi, Prof. S.P.Hore was the director then having taken over from Prof. Krishnan. The Union Finance Minister, Mr.C.Subramanian inaugurated the Alumni guest house which was handed over by the President of the MITAA to the Institute. Prof. Hore was largely responsible for the successful completion of the silver Jubilee activites by forming a well knit team of the Alumni, staff and students and consistently guiding them.

By 1980 the Institute came under the management of the Anna University and has seen a lot of progress all round. It is one of the four premier campuses of the University the other three being the College of Engineering Guindy,AC Tech and the School of Architecture.Many deans of the Institute have served with distinction in various senior positions at the University and the present Vice Chancellor, Dr.Mannar Jawahar and the registrar are former professors of the Institute.A number of new courses, Graduate and Post Graduate were added. The intake of students progressively increased from about hundred a year to about a thousand plus now. There are enhanced opportunities for carrying out resaerch work at the Insttitute. The Institute which was awarding a Diploma for the graduates has started awarding B.Tech. degrees since 1980.

The MITAA was born in Chennai, in 1966 thanks to the unstinted efforts and foresight of stalwarts like Prof. M.V. Radhakrishnamurthy, Mr. T.A.S. Balagopal (I Batch), Mr.S.Ramaswamy, Mr.B.Venkatraman, Mr. P.Krishnaswamy (late) and others. The first committee was headed by Mr. V.Gopalan (I Batch) (President), Prof. C.J.G. Chandra (I Batch) (V.P.), Mr.P.S.Subramanian (late) (6th Batch) (Secretary) and Mr.B.Venkatraman(late) (4th Batch Treasurer). Prof. K.Srinivasan was the Dean of the Institute at that time.

Since its inception the association has come a long way and many chapters were also started.The Bombay chapter was started in 1968 and the other chapters in places such as Neyveli Hyderabad,Calcutta ,Bangalore ,New Delhi, Trichy, Kochy. Singapore, Kuwait and Abu Dhabi. Most of the chapters continue to function and a few of them who have discontinued their activities are in the process of being revived. The model and functioning of the association has earned a lot of encomiums from outsiders and some of them have emulated the same in forming their respective alumni associations with success.

The association has been assisting the Institute in organising Seminars, campus interviews and the like, so that the students are benefitted. During the Founder's day held in March every year an alumnus of a particular batch is selected as an outstanding alumnus of the batch and presented with a citation acknowledging his / her achievements in his field. The chosen awardee delivers the Sri. C.Rajam memorial Endowment lecture on a subject of his / her choice. This year ,2010, Mr.Ramkumar of 26th Batch Instrumentation was selected as the outstanding alumnus and he delivered the lecture at the Institute on 2nd of April.The association also organises get togethers amongst its members,with the final year students and encourages wards of members in promoting their talents in their chosen line; a couple of wards who have done very well for themselves in the music field include Mr.Sanjay Subramanian, son of Mr.S.Sankaran of 12th Batch Electronics and Mrs.Anuradha Sriram daughter of Mr.Mohan of 14th batch electronics.

The silver jubilee of the Association was held in February 1991. A three day programme of lectures, seminars and Vision 2001, an Industrial Exhibition marked the occasion. His Excellency Dr.A.P.J. Abdul Kalaam, India's revered President, an alumnus of the Institute delivered the eighth C.Rajam Memorial Lecture on this occasion. A trust named The AMITA trust was formed to help students and entrepreneurs using the expertise of the senior MITIANS, and to raise funds for the Institute.

Since 2008 the trust decided to embark on an ambitious scholarship programme to help needy students and set on the task of approaching it members for contributions.Contrary to initial apprehensions the scheme has been very well received by its alumni and the initial target of a corpus fund of Rs.70 Lakhs was reached by around January 2010 and the trust is confident

of meeting its target of providing scholarships to 32 students (4 students from each of the eight faculties) of Rs 15000 each from the academic year 2011.The next goal is to continue the collections in order to try to increase the individual amount and / or increase the number of scholarships.The co-operation of the members has been very heart warming and contributions have been pouring in from individuals,and groups of batches alike with some individuals having contributed in terms of lakhs of rupees. A special mention needs to be made herein of the contributions of Mr.P.M.S.Prasad of 23rd batch, Executive Director Reliance Industries Limited (Rs.10 lakhs),Mr.Varadarajan of 23rd Batch, GM, BSNL through BSNL (10 Lakhs), and the present President Mr.Balaji of 15th Batch,individual contribution of Rs 4 lakhs and a host of others ranging from Rs.10000 to 2 lakhs & above.The contributions have cut across faculty and the batch spectrum and even recently passed out youngsters have thrown in their weight to a very large extent . The large heartedness of all is very commendable.The trust managers deserve to be complemented for their unflinching commitment to the cause.

Additionally last year the association, thanks to the efforts of Mrs. Balaji & Mr. N.Ramachandran of 21st Batch, past president, arranged for 27 scholarships of Rs 21000 each through an US organisation,Foundation For Excellence.

On the occasion of the Golden Jubilee of the Institute in 1999 the association assisted the Institute by collecting and donating a tidy sum of money. A souvenir was brought out by the association to mark the occasion. Mr.K.B. Chandrasekar of the 32nd Batch an NRI, donated Rupees One Crore and the KBC center for Information Technology was formed at the Institute.

The association continues in its path towards achieving the goals set during the inception and solicits the co-operation of all its members in the form of active participation and suggestions for improvements. The founding fathers set the trend of promoting harmony and friendship amongst the members and with the co-opeartion of the Institute and under the able guidance of its patrons Mr.T.A.S.Balagopal (I batch),Mr.T.S.Dhanapalan (9th Batch) and Mr.T.M.Jawaharlal (14th Batch), the AA continues in its chosen path.

The almamater over the years has been very co-operative with the association and has been providing all the assistance needed in maintaining and building upon the relationships.The students at the Institute need to associate themselves more with the MITAA and strengthen the existing bonds so that the same grows leaps and bounds.

Long live the MIT and its AA. Jai Hind.

The Rise and Descent of Mohini

MIT created in the students, a passion for knowledge and pursue it with sky as the limit. Mr. Naidu literally carried that out. We bring you his experience.

N.S.P. Naidu
T. No.: 48

It was a cool morning as I was in my room preparing for the next lecture, there was a knock on the door and a bright young man entered. This was my first encounter with Mohan Vedadri.

Mohan introduced himself as a Glider instructor at the IAF station in Tambaram. He talked about his assignment there and that he normally resided in Bangalore. His enthusiasm for gliding was self-evident and I was impressed by his extensive knowledge of flying sailplanes. He had heard of a sailplane that had been designed and built in MIT and was curious about it.

The sailplane was designed and built in the Aeronautical Engineering Department as a C.S.I.R. project under the guidance of Dr. Ing. Walter Repenthin, Investigator-in-charge and chief designer. All material used for construction was indigenous, except the metal fittings that were fabricated from salvaged airplane parts, obtained from Air Force surplus. Needless to say, a lot of hard work and ingenuity was involved in the design and construction of this vehicle. The team of workmen led by the foreman Pani did a superb job taking into account their lack of any similar experience of this type.

When I joined MIT in 1958, the project was near completion and was ready when Dr. Repenthin retired and left for Germany. He was disappointed that he did not have the opportunity to see his creation take to the air. The sailplane designated MIT G2 sat in the hangar as a static display. Then Mohan arrived at the scene.

One look at the sailplane and he entered the cockpit and tried out the controls. He was thrilled to realize that this machine was built here. He was used to training gliders that were built in UK and it was unique to have a closed cockpit side by side seater for training cadets. He had learnt of my flight testing experience in UK and insisted that we flight test this sailplane.

The Director Mr. Srinivasan was understandably reluctant as it was a risky venture and any incident would be a detriment to the reputation of the Institute. However, he gave us the go ahead, not taking responsibility for any mishaps during the tests.

And now came the problems. We had to transport the sailplane to Meenambakkam Airport. With a wing span of 75 ft. the sailplane was quite large and despite the detachable wings the fuselage was too large to be towed on the road to Meenambakkam at considerable distance. So we hired a bullock cart and loaded the components on it.

It was indeed an incongruous sight as we walked by its side all the way to Meenambakkam where there was an empty hangar we could use for reassembling. In the meantime Mohan had arranged with the IAF in Tambaram for their assistance, which was readily given.

Our first test consisted of checking the sailplane's ground handling ability. For this I had the use of a Military surplus truck that the Automobile Engineering Department generously allowed us to use. Tow cable was borrowed from the IAF. We hooked a length of cable from the sailplane to the truck and were permitted to use the main runway for our tests.

We proceeded to check out the ground handling with me driving the truck to a calculated speed that would not exceed the stalling speed. We conducted a few ground runs and Mohan reported no adverse handling problems. After the last ground-run Mohan indicated that the craft tended to lift off and suggested that I increase the truck speed a bit. I watched the rear view mirror as I accelerated; the plane lifted off and was gliding smoothly behind me. Mohan later told me the plane was tending to climb up more and he had to hold her back. There was a tremendous cheer as our Aero students and mechanics saw what had transpired. We had short debriefing session and decided to take it one step further. I started to tug the plane with the complete length of the cable approximately 500 ft. As I accelerated, the plane climbed up and was way above me trying to get ahead of my racing truck. Here is where we hit a snag. The nose cable release hook, a release device in the plane jammed and would not release the cable. This is a serious situation. I was worried as I could not slow down the truck without the sailplane nosing over. Fortunately, Mohan had a screwdriver with him, which enabled him to disentangle himself by prying open the release lever. I sighed with relief when the cable dropped off ahead of me on the truck as the plane glided and landed way ahead of me.

This is when we abandoned the truck tow and decided to borrow the motorized winch from IAF, much to my relief. We also borrowed a belly hook assembly from the IAF which Pani and his assistants installed the very evening using all his ingenuity.

In the days that followed, Mohan completed a series of tests that were required by the Civil Aviation Department for a Prototype Glider Certification, Doc T.N. 36. During these tests I had the opportunity to use my 8mm movie camera to record its flight and manoeuveres, by flying on a chase IAF training glider. I also flew with Mohan as an observer and as his first passenger. Despite the extra weight the craft performed gracefully and we stayed aloft for about 40 minutes. Mohan continued with the tests and prepared the certification report. The sailplane was dismantled and brought back to MIT and for some reason that still eludes me, was parked in the hangar. Mohan and the IAF requested that we hand over the craft to them for use in their training. But the thought of giving away the craft did not seem right.

Sadly, soon after Mohan returned home to Bangalore, he was involved in a motorcycle accident that took his life. It was in his memory we named the sailplane Mohini.

I remember going back to MIT in 1973 and found the craft languishing in the hangar. It brought a flood of memories of its graceful flight and its superior performance that remains a compliment to the design and construction by a dedicated group of members of the Aeronautical Engineering faculty.

It would have been a fitting tribute to Dr. Repenthin and Mohan Vedadri if the glider were still in use in training future fliers.

Of Clouds and Crowds...

One of the phrases that most commonly heard by us today are "The future is upon us!" or a slightly different one "Embrace the future!" It is entirely justifiable to say that these phrases are more than watch words; they are inevitable truths. And every one of us will eventually 'fall in line' with them, that is, we will adapt to the latest technologies available, understandably so for our very own 'self-centered', 'egotistical' and 'greedy' reasons such as employability, job safety etc.

Thus, as a common platform has been established it is appropriate to say that, "The future is of marked importance to all humankind". This essentially means that very few things are stable or remain unchanged for a sizeable amount of time. In fact, we may even have to modify this statement because a few years from now even our beloved pets may be using the latest forms of technology. But the interesting thing about technology is that it is totally self-contradicting and even worse self-defeating at times. Thus, whatever has just been established until now may become totally meaningless very soon.

But let's assume that the world is a nice place and turn our attention to two recent inventions that are promising to change our lives forever. Even though the previous line sounds like a line from a Hollywood Doomsday flick it seems to be irrefutable. And it is poetic justice that they are named after two things that most of us are not too unfamiliar with- 'Clouds' and 'Crowds'.

- **Sky is the limit, or is it ? - Cloud Computing:**

Most of us, at some point of time have been told to "Stop dreaming!"or to "Don't float in the clouds!" But it so happens that we may be doing just that very soon. This refers not to life in clouds or on the moon but something very close. In the so-called "Information Age", one thing that is most essential for our existence as much as water or food is our 'data'. We talk of larger Hard Disk Drives (HDD's) and more recently the more robust Solid State Drives (SSD's) but no matter how much space is on offer it seems to become insufficient in the blink of an eye. But necessity being the mother of invention like all mothers do has come up with a pretty ingenious solution.

'Cloud computing' promises to be the solution to all of our woes regarding lack of data. It is a pretty recent technology or a style of computing in which dynamically scalable and often virtualized resources are provided as a service over the Internet. Meaning that users need not have knowledge of, expertise in, or control over the technology infrastructure in the "cloud" that supports them.

Before we get lost in the technicality of the previous set of statements, let's see what this means on 'ground-zero'. It may mean that memory as we know it today may become extinct! But this is not an occasion to be mourned unless you work for a giant Multi-National that survives on the sales of these very memory devices whose eulogy is about to be delivered. On the contrary this is a momentous occasion that we must all rejoice. This could actually mean a world of 'endless possibilities'. With seemingly no limits on memory capacity or space we could actually save and manage an infinite amount of information at a very low cost. The impact is 'epoch-making' and would mark the dawn of a new era. 'Cloud Gaming' is already a rage in the pro-gaming circuits. It won't be long before every piece of data available in the electronic form will be but a click away. No more anxious moments of searching for that last minute project abstract submission or data for a tomorrow's presentation, etc.

Like most of the recent technologies to have been developed like Wi-Max, this will make even greater sense in the developing world where access to a computer is scarce. It could set people and organizations especially educational institutions and commercial establishments free from the problem of storing large amounts of information.

So, in a short time from now, all our lecture notes and study material may be available on the cloud. Nothing will remain out of reach or problematic to retrieve. We can literally sit in the comfort of our homes or offices and obtain information about 'remote' Antarctic islands or even 'inter-galactic' events. Of course appropriate measures to safeguard sensitive, classified and proprietary information must and will obviously be taken. Just thinking of such a world would force a wide grin across most of us tech enthusiasts' mouths I am sure.

- **Many hands make light work - Crowdsourcing :**

Most Indians, including me aren't very pleased to hear that our country is one of the most 'heavily-populated' nations in the world today. In fact, even though we may not be as 'densely- populated' as say a 'Singapore' or a 'Hong Kong' we are not too far behind. Old sayings are supposed to teach us that crowds are generally not very intelligent and hence the terms the Mad Mob or the Thoughtless Masses. This is believed to be because the collective brains of a group of individuals average out as only a few among them are really extraordinary and the rest are just mediocre. But like all things old, this adage will also undergo sweeping changes in the foreseeable future. And this can be attributed to another equally old maxim, "Many hands make light work!" Most of us will be familiar with the terms "multiprocessing" which is analogous to Fred of Scooby Doo's fame's cry of "Lets split up gang!". Professors will speak hours on end when asked to vouch for the advantages of the 'top-down' and 'object-oriented' approaches of problem solving.

The current generation has grown hearing that one day our population will come of great use that is we will find development through our numbers. That day is nearer than any of us can imagine. It is indeed ironic that, this new technology's name refers to a phenomenon that most innovations try to avoid - 'crowds'. Be it online banking, online ticket reservation etc are aimed at 'reducing crowds' at counters and offices. But it is this 'humble crowd' that is at the forefront of a revolution.

Crowd sourcing promises to really give us all 'A piece of the pie!' or so to speak. It involves around eight steps including - problem identification by the organization, the organization broadcasting the problem, calls for solutions from the crowd, rewarding best among the submitted solutions and the organization buying over the solutions and using it for their growth and profit.

There are many living examples such as the ever so popular 'Wikipedia' which has been often cited as an example one of the greatest successes of 'crowd sourcing'. In fact collaboration is nothing new to mathematicians and scientists, they have been at it from time immemorial. Many of the world's greatest problems in many fields ranging from recognizable free body physics to intricate nuclear physics, etc have been solved through a smaller but equally powerful version of crowd sourcing.

In fact, tasks such as translation, writing news articles, and those that involve large amounts of computation are as we speak being solved by millions across the world, cracking minute parts and then putting them together. Distributed computing is a recent ancestor of crowd sourcing. Many distributed computing projects have already yielded astonishing results and numerous others are on the verge of doing so.

As a direct consequence of this, we are not far from the day when we can actually put our abnormally large population to our advantage. There are the delicate issues of 'authenticity' and 'censorship'. But unlike the crowds of yore, today's crowds have a propensity to be self-censoring and true for the most part. And these are minor blemishes on an otherwise immaculate concept and will be sorted in the most prompt of manners.

Therefore, we can with the slightest hint of hesitation say that "Team work really does work!" But we MITians are actually no strangers to this concept as most our assignments and projects are based on the collective contributions of a group of individuals. It can even give a new dimension to the phrase 'combined study' which will come in handy especially, during times of examinations.

Thus, in conclusion, it can be confidently said that we can't afford to and it would be irrational to, ignore the future and the diverse technologies that it has to offer. It truly is time to 'Embrace the Future'! Whether we do this with our 'head in the clouds' or 'from amongst the crowds', is but a mere matter of choice!

Madhusudan .S
20073727

DARE NOT TO THINK OF A CIVILIZATION SANS THE USE OF PLASTICS

Civilization which is defined as a system of social advancement would be unrecognizable if it is deprived of plastics. If plastic is going to be a fairy tale word, make yourself ready to return to the ages of stone, iron and bronze. Even beyond the ancient civilization of Egypt and Babylonia because even the mother of Moses had hid her son in ark of bulrushes and covered them with slime (similar to bitumen) and pitch thus forming one equivalent to modern fiber reinforced plastic boat. A civilization sans plastics can never provide comfort in man's inanimate possessions his garments, home, haulage, communiqué, entertainment to health care. The ball pen, the notebook cover, the radio, the TV, the computer, fan, car, aero plane everywhere plastic is used. Every equipment, every machine, every household item cannot be completed without a plastic part in it.

Invention of plastic is a mile stone in human civilization. Giving up plastic means you are going back to the period of savage. Plastic brings us comfort, joy, style and it also gives us new lease of life. Yes, those who are at the verge of death, due to heart failure being implanted with artificial heart valves are made of plastic. In fact, a life without plastic is unimaginable. Some critics say plastic is hazardous to environment, which is not true, and on the contrary it protects the environment. Had plastic not been invented, the men would have cut all the woods on the earth, for their housing and furniture requirement. It is only a miniscule portion of plastic industry involved in making plastic bags which is less than 20 microns thickness, its use and disposal requires lot of discipline. Instead educating the wrong doer, painting the whole plastic society with same brush is a crime against science.

Some people have the myth registered in their minds that plastics are the most hazardous components contributing a major role to pollution and campaigning for alternatives. Let me throw some light on the so called substitutes the paper, cotton and jute. About 10 to 17 trees are slashed to get one meter of paper, which cannot be recycled more than four times. And recycling does not come free of toxics; it consumes lot of energy and uses chemicals for bleaching and de-inking. Plastic grocery bags use up 40% less energy and provide 80% less solid waste than paper. Cotton which is one of the most chemical intensive crops uses all kinds of fertilizers and pesticides, undergoes bleaching dyeing with auxiliary agents. So wearing cotton comes along with wearing toxics. Similar is the case with jute. Therefore, I request the folks who mislead the public by protesting that plastics are dangerous, first ban paper, cotton and jute which impose heavy burden on environment and then turn their heads to the less intensive plastics.

Coming to the transportation sector, at present a modern average car has more than 20% plastic parts in it and the focus of various leading automobile industries is to increase this percent as it leads to less weight and less fuel consumption with reduction of CO_2 emission. Eliminating the plastics would mean to increase the weight which has a direct impact on mileage, polluting the environment, and safety can never be compromised without bumpers made up of reinforced plastics whose energy absorbing property cannot be matched by any other metal. Were in any case if the eminent scientists around the world succeed in inventing one such with zero percent of plastics and sans having any impact on the environment am sure it will be booked only for the millionaires.

The success of any flying machine lies in its lift to weight ratio. Less the weight more efficient the machine is. So the airplane industry constantly does research on these lines. Having three divisions, viz.,

(a) Advance composite division
(b) Fiber reinforced plastic division
(c) Material science division at National aerospace laboratory, Bangalore

For the above purpose is a live testimony. So you cannot imagine an aero plane without the use of plastic and a society without aero plane means it is going back to hundred year of civilization. Plastic is also used extensively in space vehicles.

On the economic front there will be a huge pit in the GDP of the countries, for the reason that the tremendous growth of plastics technology has paved way for the rising of 'n' number of industries from cottage to multinational. The consumption of plastics which was almost zero in the starting of the 20th century has become more than 150 million tons per year today as they proffer a lucrative alternative Thousands of employees will go jobless if the plastics industries are removed. The developments in each and every technology that have come into the world are only due to the advent of plastics. Plastics processing units play a key role in the progress of the national economy, besides major contribution to the treasury of government.

Plastics have been doing yeomen service in the field of medicine and helping mankind with splendid inventions like plastic surgery which changes the identity of a man, heart valves disposable syringes, contact lenses, artificial cornea, prosthesis, optical and dental products .all the above healthcare sans plastics will remain a "never come true" dream because no other material can match its exceptional barrier properties, light weight, low cost, durability, transparency and compatibility.

Has there been any material invented equivalent to plastics for the insulation of electric wires, conductors, and capacitors and for the making of printed circuit boards and computers? The answer is simply NO!!! Can you imagine the weird case of having an iron monitor, glasss/ wooden keyboard, mouse and all other interiors of a computer? If the civilization is going to forbid the use of plastics it would require a concrete structure in your living rooms to accommodate a mass of metal, wood and glass.

If the world gets dispossessed with plastics, conservation of resources, fight against pollution and an improved quality of life which are the parameters by which a good civilization is defined would become questionable. The American civilization will have to once again cry for a plastic straw as the paper ones are soggy.

Hence, it can be conveniently concluded that as long as human being on the earth call themselves civilized and till the last drop of hydrocarbon is available the plastic will stay foot and rule the world.

Sindhu.K.P
20073614

ANGLE SIDE SIDE

Introduction

There are 4 existing rule to prove the congruence of the triangles mine is the fifth one. It is an extension of SAS rule. I have used the basic concepts alone in this proof as I created it while studying Ninth Standard.

Inspiration

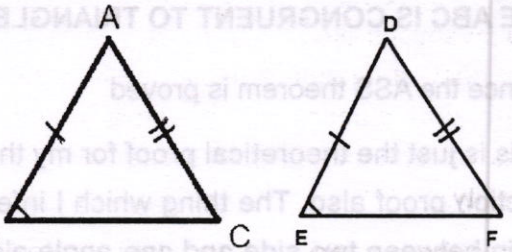
The inspiration for the possibility of this theorem struck me only when I made a mistake In my exam where a said two triangles can be congruent if two sides and any one angle is given. Then my teacher pointed my mistake but now I have proved it right.

Theorem

If two sides of a triangle and an excluded angle of one triangle are equal to the corresponding sides and the excluded angle of another triangle, then the two triangles are congruent.

To Prove

Triangles ABC and DEF are congruent.



Given

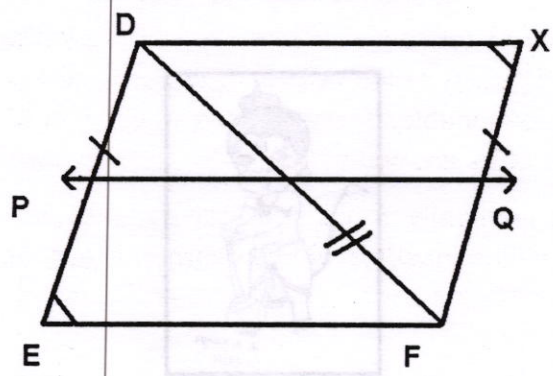
AB=DE

AC=DF

Angle ABC=Angle DEF

Construction

Construct a triangle XYZ congruent to ABC on the side DF such that the side equal to AC lies on DF. Therefore, the points Y & Z coincides with the points D & F.



Proof

After construction we get the above figure. Now in the fig the mid points of DE and XF are joined. Therefore **DP/EP=1=XQ/FQ** (as DP=EP,XQ=FQ)

So the three lines DX,PQ,EF are parallel to each other.
(by equal intercepts property)

Hence **angle XDF = angle EFD** (alternate angles)
Already angle DEF = angle DXF
So **angle EDF = angle XFD**

Side BC is common to both the triangle so the two triangles are congruent by ASA rule.

Therefore **Triangle DEF is congruent to Triangle XYZ**

But by construction XYZ is congruent to ABC so

TRIANGLE ABC IS CONGRUENT TO TRIANGLE DEF

Hence the ASS theorem is proved

This is just the theoretical proof for my theorem I have formulated an ideology proof and a construction proof also. The thing which I infer from this is that it is possible to formulate an relationship between two side and one angle alone and we don't need all the three sides as in the case of cosine formula. I am working on it presently and the reason why I am giving this open idea is because I hope someone will be able to establish the relationship soon.

MATH RULES THE WORLD

N.Venkatesh
2009504055
ECE(R) I Year

Dept of rubber and plastics technology
A Tribute to Production Engineers

Competence and commitment is their mission
Knowing massive structures to nuclear fission
Creativity and innovation are their skills
Squeezing their brains to the last drop in quill

They talk to the lathe and drilling machines
To make sense out of a billet that's alien
From its vision to value they play a role
With all of their mind, body, heart and soul

Mechanics to Robotics and Nanotechnology
Casting to Machining until Quality
Materials to Management they learn them all
And consider this boon a gift of God

They bring ideas and designs to life
Be it a flight, a ship or a hybrid bike
Past or future let the clocks unwind
They remain.. In humble service of mankind

Suri Balaje Ramakrishnan
2009606115
M.E. Manufacturing Engineering
Department of Production Technology

இயற்கை

இயற்கையே! உன் அமைதியைக்
கண்டு மகிழ்ந்தேன்
உன் ஆவேசத்தைக் கண்டு வியந்தேன்
உன்னில் இருக்கும்போது
என் சோகத்தை மறந்தேன்
ஏன் என்னைக் கூட மறந்தேன்
பலவகை அணிகலன்களைப் பூண்டு
அவற்றை விற்று எங்களை
வாழவைக்கிறாய், இந்தப்
பண்பு எவரிடம் வரும்?
உன்னை ரசித்திருந்தால், என்
வருடம் கூட வினாடி ஆகிறது.
இத்தகைய இயற்கையாய் பிறக்கவில்லையே
என்று ஒவ்வொரு கணமும் ஏங்குகிறேன்!

R. Saravana Priya
20084864
(I year ECE (R))

ANNA UNIVERSITY CHENNAI : MIT CAMPUS
CHROMEPET, CHENNAI - 600 044

LIST OF SCHOLARSHIPS

1. BC / MBC / DNC Scholarship.
2. SC / ST Scholarship.
3. SC / ST Loan Scholarship.
4. CM Award for SC / ST Students.
5. Bank of Tokyo Scholarship.
6. MGR & Quaid-E-Milleth Scholarship.
7. Merit Cum Means based Minority Welfare Scholarship
8. Central Sector Scheme - MHRD Scholarship.
9. Founder's Family Loan - 1 No. for First Year.
10. Alumni Scholarship.
    - I. AMITA Scholarship
    - II. Foundation for Excellence
    - III. 32nd Batch Scholarship
    - IV. 50th Batch Scholarship
    - V. Rangachariar Scholarship
11. Prize Money Award (One time Payment after completing the degree for SC / ST Students only)

அம்மா

ஓடினேன் ஓடினேன்
எங்கும் இறைவனைத் தேடி
அவன் தூணிலும் இருப்பான்
துரும்பிலும் இருப்பான்
என்பதை நம்பி !
கோவிலில் தேடினேன்!
ஏமாற்றம் அடைந்தேன்!
தேவாலயத்தில் தேடினேன்!
ஏமாற்றம் அடைந்தேன்!
மசூதியில் தேடினேன்!
ஏமாற்றம் அடைந்தேன்!
சோர்வுற்று வீட்டிற்கு வந்தேன்
என் தாயைக் கண்டேன்
இறைவன் சிரிக்கிறார், அட மடையா!
இதோ, நான் இங்கே இருக்கிறேன் என்று!

T. Shyamala
20063129

பொதுவாழ்வில் இளைஞர்கள்

தபால்காரனின் குரல் கேட்டு கதிரவன் சட்டென திரும்பிப் பார்த்தார். ஓய்வு பெற்ற தமிழாசிரியரான அவர், தனது ஓய்வு நேரங்களை பழங்காவியங்களிலும் செந்தமிழ் இலக்கியங்களிலும் கழித்து வந்தார். அவரது மகன் சூரியாதான் எழுதியிருந்தான். சென்னையில் உள்ள அரசு சட்டக் கல்லூரியில் படித்து வரும் அவன், பெயருக்கேற்றது போலவே தன் கருத்துகளை நெருப்பாக வெளியிடுவான். இவர்கள் இருவரின் கடிதப் பரிமாற்றங்கள் நாட்டு நடப்பினைப் பற்றித்தான் அதிகம் இருக்கும். ஆனால் அவர் இன்று இக்கடிதத்தை எதிர்பார்க்கவில்லை. அக்கடிதத்தின் செய்தி இது தான்,

"அரசியல் அழுக்கு என்று ஒதுங்கியிருப்பதை நாங்கள் எங்கள் ஆண்மைக்கு இழுக்காகக் கருதுகிறோம். ஆகவே நானும் எனது நண்பர்களும் அரசியலில் எங்களை ஈடுபடுத்திக் கொள்வது என முடிவு செய்துள்ளோம். வருகிற பொதுத் தேர்தலில் தற்பொழுது உள்ள கட்சிகளுக்கு மாற்றாக புதியதொரு அணியாக எங்களைக் காணப் போகிறீர்கள்"

இக்கடிதத்தைப் படித்தபின் அவரது மனம் பல உணர்ச்சிகளின் சங்கமமாக மாறியது. அவரே தனது கல்லூரிக் காலத்தில் இந்தி எதிர்ப்பில் தீவிரமாக பங்குகொண்டு சிறை சென்றவர் தான். இதனால் தன் தந்தையுடன் கருத்து வேறுபாடு ஏற்பட்டு வீட்டை விட்டு வெளியேறினார். ஆட்சிக்கு வந்தபின் அவர்களது செயல்களில் மாற்றங்கள் தெரிந்ததால் அவர்களிடம் இருந்து விலகினார்.

தற்போது அவர் தன் மகனுக்கு என்ன பதில் எழுதுவது என்றறியாமல் திகைத்தார். அவனுக்கு உள்ள சமூக அக்கறையை எண்ணி உவகை கொண்ட அவர் அதேசமயம் அவனுக்கும் தன் நிலை ஏற்படுமோ என ஐயங்கொண்டார். தடுத்து நிறுத்துவது தவறு ; தடுக்காமல் விடுவது அறிவீனம் ; இக்குழப்பத்தில் பதில் எழுதாமலே விட்டுவிட்டார்.

சில நாட்களில் சூர்யாவிடம் இருந்தே கடிதம் வந்தது. அதில்,

09-10-1989
சென்னை

அன்புள்ள அப்பா,

இங்கு நான் நலம் ; தாங்களும் நலம் என்றே கருதுகிறேன். என் கடிதத்திற்கு தங்களிடம் இருந்து பதிலே இல்லை. நீங்கள் என்ன எழுதியிருந்தாலும் அன்றைய நிலையில் என்னைத் தடுத்திருக்க முடியாது. ஆனால் தற்போது நான் மாறிவிட்டேன் ; இல்லை மாற்றி விட்டார்கள். இது தொடர்பாக நான் என் நண்பர்களோடு பேசினேன். அவர்கள் சொன்ன சமாதானங்களைக் கேட்டபின் இவ்வளவு நாள் அவர்களை இளைஞர்கள் என்று எண்ணியதற்காகவே வெட்கப்படுகிறேன்.

'சூரியா நமக்கேன் இந்த வீண் வம்பு ; அரசியல் நமக்கு ஏற்றது அல்ல ; அதற்காகவே பலர் உள்ளனர்; நாம் நம் வேலையைப் பார்ப்போம்; அவர்களோடெல்லாம் போட்டியிட நிறையப் பணம் வேண்டும்; அப்பா விட மாட்டார் ; அம்மா விட மாட்டார் ; இப்படிப் பல பதில்கள். இவற்றைக் கேட்கும் போதே நெஞ்சுக் கொதிக்கிறது. இவர்கள் இப்படி என்றால் பெண்கள் ஒருபடி மேல். எல்லாவற்றிலும் ஆணுக்கு பெண் சரி நிகர் சமம் எனக்கூறும் பெண்கள், அரசியலை மட்டும் எங்களைப் பார்த்துக் கொள்ளச் சொல்கிறார்கள். இதற்கெல்லாம் மேல் கல்லூரி நிர்வாகமும் மிரட்டுகிறது. இதையெல்லாம் மீறி மிஞ்சியது மிகச் சிலரே. ஆகவே தேர்தலில் போட்டியிடும் எண்ணத்தை விட்டுவிட்டு, இப்பிரச்சனைகளை களைவதைப் பற்றி சிந்தித்து வருகிறோம். எங்களை (இளைஞர்களை) இந்தியாவின் தூண்கள் என்று தலைவர்கள் கூறினர் ; ஆனால் தூண்கள் துருப்பிடித்துப் பல ஆண்டுகள் ஆகிவிட்டன.

இப்படிக்கு
க. சூரியா

இக்கடிதத்தைப் படித்தபிறகு தன் மகனை எண்ணி பெருமையாகவும் இருந்தது. எதிர்கால இந்தியாவைப் பற்றி ஒருவித ஜயமும் உண்டானது. பின்"ஆயிரம் இளைஞர்களை என்னிடம் அனுப்புங்கள், நான் இந்தியாவை மாற்றிக் காட்டுகிறேன்" என்ற விவேகானந்தரின் வாக்கு அவரது நினைவுக்கு வந்தது.

அ. சந்திரசேரன்
20073006

வரம் பெற்ற சாபம்

முகிலின் ஊர்வலம் பார்த்ததுண்டு ;
நட்சத்திரங்களோடு கண்சிமிட்டியதும் உண்டு ;
கொள்ளை கொள்ளும் அடிவான சூரியனை
தழுவிக்கொள்ள ஆசை கொண்டதுமுண்டு ;
நிறமில்லா நிழலைக் கண்டு பயந்ததும் உண்டு ;
அதே நிழலைத் துரத்திப் பிடிக்க ஓடியதும் உண்டு;
குளத்தில் பூத்த அல்லியை
கிள்ளிப் பார்க்க துடித்ததுமுண்டு ;
ஜன்னல் வழிப் பசுமையில் தொலைந்த
நினைவுகளை தேடியதும் உண்டு ;
வளர்ந்து தேய்ந்த வெண்ணிலாவின்
மீதியைத் தேடி வாடியதுண்டு ;
மேகத்தின் வண்ணம் கண்டு
ஆச்சர்யத்தில் ஒரு கணம் தொலைந்ததுண்டு ;
பிறரைக் காட்டிலும் என்னை மட்டுமே
வெகுநேரம் ரசித்ததுண்டு ;
காணாதவற்றைக் கண்டதை வைத்து
கற்பனையில் அதிகமாகக் கண்டதுண்டு ;
அப்போதெல்லாம் நினைத்ததில்லை .....
கற்பனை இருளில்தான்
இனி உலகைத் தேட நேருமென்று ;
ஒரு நாள் .....
சில நொடிகள் என்னைத் தழுவிய விபத்தில்
கருமை தெரிந்தது கண்ணெதிரில் ;
வலிகளோடு உணர்ந்துகொண்டேன்
கருமை கலைக்க நினைத்தேன்
கலையாத நிலையில் கலங்கி நின்றேன் ;
வண்ணங்களின் வர்ணனை
பிரதிபலித்தது உள்ளத்தில் ;
இருளை மட்டும்
உணர்ந்துகொண்டு இருக்கையில்
வலிகளோடு உணர்ந்துகொண்டேன்
பார்வை என்ற வரத்தின் பலனை :
வாழும்போதே வரம் முடியும்
சாபம் பெற்றதனால் ;
வலி கூற வழியில்லை, விழிகூட
என் துணையில்லை .....

S. Shareefa Begam
20080798

அழுகை

ஆறாய் ஓடிய அவள்,
இன்று பனியாய் உரைந்து
படர இயலாமல் தவிக்கிறாள்
அழும்போது ஆறுதல் சொல்லமறந்த
உறவுகள் - அழுதுமுடித்ததும் உரைத்தன
அவளின் குறைபாடுகளை!!! - இல்லை
அவர்களுக்கு அவள்மேலுள்ள கோபத்தை..
இன்றும் அவள் அழுகிறாள்
அவளுக்காக அல்ல! அவளின் உறவுகளுக்காக!
எப்படியும் அவள் அழுகை ஓய்ந்தபாடில்லை!
அது ஓயப்போவதுமில்லை .....

P. Kaviyarasi
20080760
II EYear ECE (SS-1)

மழையே !.... நீ வா !!!.....

பெண்களே !
நீர்த்துளிகளாய் பிறந்து
மேகம் எனும் வீட்டில் வளர்ந்து
மழை எனும் திருமணத்தினால்
பூமி எனும் புகுந்த வீட்டிற்கு
வந்தாய் .....
புகுந்த வீட்டில்
உங்களில் ஒருசிலரைத்தான்
மரியாதையாக அழைத்தனரோ?
மற்றவர்கள் ஏன் வெளியே?
நீங்கள்
ஆறு எனும் பாதையில்சென்று
அணை எனும் பாதுகாப்பு விடுதியில் தங்கி
மற்றவர்களுக்கு உதவலாமே !
ஏன்?
அப்பாதையிலே சென்று
கடல் எனும் பாதாளத்தில்
விழுகிறீர்கள்
உங்களின் கண்ணீரால் தான்
கடல் நீரும் உப்பானதோ!
உங்களில் சிலர்
மீண்டும் பிறந்தவீட்டிற்கு
உருமாறி சென்றாலும்
உங்களை மீண்டும்
அனுப்பினர் புகுந்தவீட்டிற்கு,
அன்று
அறியாமையால்
வருடத்திற்கு மூன்று முறை
அனுப்பி வைத்தனர் உங்களை
இன்று
அவர்களும் கற்றறிந்து விட்டனரோ?
உங்களை
புகுந்தவீட்டிற்கு அனுப்பவில்லையே!
உங்களை தொலைத்து
மங்களம், செல்வம் இல்லாமல்
மங்கிய நிலையில் உள்ளது
நீ புகுந்த வீடு!
ஒரு பெண்ணிற்கு
புகுந்த வீடென்பது முக்கியமில்லையா
அந்த வீட்டின் நன்மைக்கு
நீ வரமாட்டாயா ?
உன்னை வரவேற்க அவர்கள்
காத்திருக்கும் போது
நீ ஏன் வர மறுக்கிறாய்?
உன் கோபம் இன்னும் தீரவில்லையா ?
உனக்கு உதவின
உன் நண்பர்களையும்
அழித்து விட்டார்கள்.
உனக்கு உதவ
நான் இருக்கிறேன்
மரமாய் .....
நீ வா .....
என் தோழியே !!!

த. கோகிலா
20073428

தொழில்நுட்ப இந்தியா 2020

முன்னுரை :

" பாரில் எல்லா தேசங்களிலும்
எங்கள் தேசம் உயர்தேசம் "

என்ற பெருமைக்குரியது நம் தாய்நாடு இந்தியா. 21ம் நூற்றாண்டில் அடியெடுத்திருக்கும் இந்தியா அறிவியல், தத்துவம், ஆன்மீகம், கல்வி, விவசாயம், வேலைவாய்ப்பு, தொழில் துறை, மனிதவளம் உள்ளிட்ட அனைத்து துறைகளிலும் அபரிமிதமான மேம்பாடு மற்றும் முன்னேறிக்கொண்டிருக்கின்றது. உலகளவில் வேறெந்த நாட்டிலும் இல்லாத அளவிற்கு 120 கோடி மக்கள் தொகையைக் கொண்டும், மிகப்பெரிய ஜனநாயக அரசியலமைப்பைக் கொண்டும் எந்தத் துறையிலும், எந்த நாட்டோடும் போட்டியிடக்கூடிய வல்லமை கொண்ட நாடாக இந்தியா திகழ்கின்றது. இவ்வளர்ச்சிக்கு காரணம் தொழில்நுட்பம் என்றால் அது மிகையில்லை!

பன்னாட்டு உறவு, உள்நாட்டு பாதுகாப்பு, ராணுவ தளவாடங்கள், விண்வெளி ஆய்வு, ஏவுகணை போன்ற நம் நாட்டின் முக்கிய துறைகளில் மாபெரும் முன்னேற்றத்திற்கும், தன்னிறைவுக்கும் கூட வளர்ந்து வரும் தொழில்நுட்பமே பெரிதும் காரணமாகும். இந்தியா வல்லரசா? என்று கேட்பவர்களுக்கு மத்தியில் இந்தியா இன்று மட்டுமல்ல அன்றும், இன்றும் ஏன் என்றுமே கூட இந்தியா வல்லரசுதான்.

இந்தியாவின் நேற்றைய வல்லரசுக்குப் பண்பாடும், கலாச்சாரமும், "வேற்றுமையில் ஒற்றுமை" எனும் வேதாந்தமும், "யாதும் ஊரே யாவரும் கேளிர்" என்ற மனிதநேயமே காரணம். ஆனால் இன்றைய, நாளைய வல்லரசுக்கு காரணம் நவீன தொழில்நுட்பமே! அந்த வகையில் 2020ஆம் ஆண்டு தொழில்நுட்ப இந்தியா பற்றி வரைவதே இதன் நோக்கம்.

தொழில்நுட்பம்

அறிவியல் உலகம் முந்திக் கொண்டது. விஞ்ஞானத்திற்கு பெயர் அறிவுஇயல் என்ற பெயரை வைப்பதில் மனிதம் அறிவைத் தேட விழைந்ததின் காரணமாக புதுப்புது கண்டுபிடிப்புகளும், யுத்திகளும் கிடைத்தன. அனைத்துப் பாடங்களுமே அறிவு சார்ந்ததாய் இருந்தாலும் அறிவியல் மட்டுமே தனித்து நிற்கின்றது. கற்காலம், முற்காலம், இடைக்காலம், பிற்காலம் என்ற காலநோக்கில் பிரித்துப் பார்த்தாலும் கூட அறிவியலால் ஏற்பட்ட மாற்றமே பெரும் மாற்றமாகும். அறிவியல் மாற்றத்திற்கு பெரிதும் காரணம் தேடலினால் விளைந்த புது யுத்திகளே ஆகும். மாற்றத்திற்கு தேவையான யுத்திகளையே தொழில்நுட்பம் என்கின்றோம் !

ஆதிமனிதன் ஆடையில்லாதிருந்தான் இன்று பல்வேறு ஆடைகளை காலத்திற்கு ஏற்ப, பருவத்திற்கு ஏற்ப அணிந்து மகிழ்கின்றான். விஞ்ஞான வளர்ச்சியும், தொழில்நுட்பமுமே இந்த மாற்றத்திற்கு பெரிதும் காரணம்!

மாட்டு வண்டிகளில் பிரயாணித்தவன் சொகுசுப் பேருந்திலும், தொடர்வண்டியிலும், விமானத்திலும், மோட்டார் வாகனத்திலுமேறி அதிவேகமாய் பறக்கிறான். கால் கடுக்க நடந்தவன் சொகுசாய் பயணிக்கிறான். தொலைதூரம் செல்வதை தவிர்க்க அதேசமயம் தொடர்புகொள்ள கடித தொடர்பை மட்டுமே நம்பியிருந்தவன், இன்று தொலைபேசி, அலைபேசி, மின்னணு வழி அஞ்சல் என்று ஒரு நொடியில் உலகினில் யாரோடும் தொடர்பு கொள்கின்றான்.

நாற்று நட்டவுடன் காளைகளைக் கட்டி ஏர் உழுதாலே வயல் விளையும் என்ற நிலையும் மாறிப் போனது. விளைந்த கதிர்களை வயற்காட்டிலேயே அறுவடை செய்யவும், கதிர் அடிக்கவும், கரும்பு வெட்டவும் கண்முன்னே இயந்திரங்கள் ஏகமாய் இருக்கின்றது. உழவு, இது மாட்டிற்கே கூட இன்று மறந்து போயிருக்கும்.

சுவடிகளாய் இருந்த ராமாயணமும், மகாபாரதமும், விவிலியமும், திருக்குர்ஆனும், தேவாரமும், திருவாசகமும், புத்தகங்களாய் மாறி இறு குறுமென்தகடுகளாய் வலம் வந்துகொண்டிருக்கின்றது.

அரசு நிர்வாகமே இன்று ஆமை ஊர்கின்ற காலம் போய் மான்போல் வேகமாய் பறக்கின்றது. ஆவணங்கள் காகிதங்களாய் கட்டிப் போடப்பட்ட காலம்போய் கணிப்பொறிக்குள் அடுக்குகளாய் இருக்கின்றது. "தகவல் தொடர்பு" தாமதம் என்ற வார்த்தைக்கே அவசியமில்லாது ஆக்கிவிட்டது. மானிட உலகின் இந்த மாபெரும் மாற்றத்திற்கு பெரிதும் காரணம் நவீன தொழில்நுட்பமே! உலகளவில் பெரிதும் வரவேற்பைப் பெற்ற வளர்ந்து கொண்டிருக்கும் தொழில்நுட்பம் 2020ல் இந்தியாவில் எப்படி இருக்கும்? இருக்கலாம் ! இருக்கவேண்டும் !!

விவசாயத் துறையில் தொழில்நுட்பம் 2020 :

"இந்தியப் பொருளாதாரமே கிராமங்களில் உள்ளது" என்றார் மகாத்மா! கிராமங்கள் இன்றளவும் விவசாயம் சார்ந்த தொழில்களையே நம்பியுள்ளது. மிகப்பெரிய மக்கள் தொகை, மிகப்பெரிய விவசாயம், நவீன தொழில்நுட்பம் மூன்றும் கலந்த புது "மக்களுக்கான தொழில்நுட்ப விவசாயம்" மட்டுமே இனி பயன்தரும்!

கால விரயத்தை தவிர்க்கவும், போக்குவரத்து சிரமங்களை தவிர்க்கவும் மட்டுமே விவசாயத் துறையில் பயன்பட்ட தொழில்நுட்ப இயந்திரங்கள், இனி குறைந்த இடம், குறைந்த காலம், குறைந்த வசதி, அதிக உற்பத்தி ஆகியவைகளை புகுத்துவதாய் இருக்க வேண்டும். குறைவான நிலப்பரப்பில்

குறைவான மாதங்களில் பயன்தரும் விவசாயத் தொழில்கள் ; நீர்வளம், காற்றோட்டம் போன்றவைகளை குறைவானதாகக் கொண்டு அதிக லாபம் ஈட்டக்கூடியவைகளாய் இருத்தல் வேண்டும்! ஆம் 150 நாட்களில் விளையக்கூடிய உயர்ரக சம்பா இனி 100 நாட்களிலும், 12 மாதங்களில் பயன்தரும் வாழைகள் 6 மாதங்களில் பயன்தருவதாய் புதுப்புது வீரிய ரகங்கள் கண்டுபிடித்தல் வேண்டும். காலம் குறைய நமக்கு வசதிகள் அதிகம் தேவையிருக்காது.

நம் நாட்டில் உள்ள நதிகள் அனைத்தையும் இணைப்பதன் மூலமாக நம் தாய்நாடு 2020ல் விவசாயத்துறையில் அபரிமிதமான வளர்ச்சிப் பெற்று சரித்திர சாதனை பெறும் என்பதில் சந்தேகம் கிடையாது.

கல்வித்துறையில் 2020 :

கல்வித்துறையில் 2020–ல் மாபெரும் சரித்திர மாற்றம் காணத்தான் வேண்டும். கணித சாஸ்திரம், வானவியல் சாஸ்திரம், மனையடி சாஸ்திரம் போன்றவைகளை உலகிற்கே அறிமுகம் செய்தவர்கள் நாம். 2020ல் இந்தியா கல்வித்துறையில் வேறெந்த நாடும் நெருங்க முடியா நிலைக்கு எட்டப்படல் வேண்டும். கல்வி அனைவருக்கும் கட்டாயமாக்கி உயர்கல்வித்துறையை அரசாங்கமே ஊக்குவித்தல் வேண்டும். எந்தப் பாடமானாலும், எந்த துறையானாலும் இதை அமுல்படுத்தல் வேண்டும்.

பாடங்கள் அனைத்தும் நேர்முறை விளக்கம், செயல்முறை விளக்கம் என்பதோடு மட்டுமல்லாமல் கணிணி வழி பாடமும் கட்டாயமாக்கல் வேண்டும். எந்த பாடமும் இதில் அடங்கவேண்டும். இந்தியாவில் உள்ள மாநிலங்களில் உள்ள கல்வி நிறுவனங்கள், உயராய்வு மையங்கள் ஒருங்கிணைக்கப்படல் வேண்டும்.

மாநில பல்கலைக்கழகங்கள் ஒரே மையமாகவும், பல மாநில கல்வி மையங்கள் ஒரே பேரமைவாகவும் ஒருங்கிணைத்தல் வேண்டும்.

நேர்வழிக் கல்விமுறையும், தொலைநிலைக் கல்வி முறையும் ஒரே தரமாய் ஆக்கப்படல் வேண்டும். எந்தத் துறையிலும் எந்த மாணவனும், எந்த நேரமும் தெளிவு காணும் வகையில் "கல்வித் தொலைக்காட்சி தெளிவு மையம்" உருவாதல் அவசியம். இது எந்த மாணவனுக்கும் இலவசமாய் வழங்க அரசு ஆவண செய்திடல் வேண்டும்.

2020 இந்தியா கல்வித்துறையில் வீடுகள் தோறும் கல்வியறிவும், கல்வி நிலையத்தோடு ஒன்றினைந்த மாணவர்களுமே நிறைந்த இந்தியா உருவாதல் வேண்டும். மொத்தத்தில் உலகப் பட்டதாரிகளில் 6–ல் ஒருவர் இந்தியராய் இருத்தல் வேண்டும். பட்டதாரிகளின் எண்ணிக்கையில் பொறியாளர்கள், மருத்துவர்கள், உயர்கல்வி பெற்றவர்கள், அறிவியல் விஞ்ஞானிகள் ஆகியோரில் எண்ணிக்கையில் நம் தாய்நாடு முதலிடம் பிடித்தல் வேண்டும்.

தொழில்துறையில் தொழில்நுட்பம் 2020

வளர்ந்து வரும் தொழில்நுட்பம், இந்தியாவின் மக்கள் பெருக்கம் இரண்டுங்கலந்து மக்களின் வாழ்வுக்கு ஊறு விளைவித்திடாதபடி தொழில்நுட்பத்தையே இந்தியா 2020-ல் கையாள வேண்டும்.

"வேலைக்கு உணவு" திட்டங்கள் என்பது அர்த்தமானதாய் ஆக்கல் வேண்டும். கனரக இயந்திரம் செய்கின்ற வேலைகளை மனிதனை செய்யவைத்து "மனிதத்தை" அவமானம் செய்யக்கூடாது. மனிதம் வாழ மாற்று வழிகள் உபாயம் தேடிட வேண்டும்! காலத்தைக் குறைத்து உற்பத்திப் பெருக்கிட இயந்திரங்களை மட்டுமே பயன்படுத்த முடியும்! அதற்கு நவீன தொழில் நுட்பங்கள் இன்னும் கூட வளர வேண்டும்.

2020-ல் மாற்றம் எரிசக்தி தொழில்நுட்பமே

உலகின் அதிக மோட்டார் வாகனங்கள் உள்ள நாடுகளில் இந்தியாவும் ஒன்று! அதுமட்டுமல்லாது உலகின் மிகப்பெரிய நீண்ட தொடர்வண்டி போக்குவரத்து கொண்ட நாடும் இந்தியாவே! போக்குவரத்திற்கு தேவைப்படும் எரிபொருள்களான கச்சாப் பொருள்களை பெருமளவில் இன்றளவும் வெளிநாடுகளில் இருந்தே இறக்குமதி செய்கின்றோம். இதன் காரணமாக இந்தியாவின் பொருளாதாரத்தில் பெரும்பங்கு செலவாகின்றது.

அதேசமயம் இந்தியாவின் ஏழை பாமரன் முதல் மிகப்பெரிய தொழிலதிபர்கள் வரை பெட்ரோலியப் பொருட்களை நாடியே தீர வேண்டியுள்ளது. அதிலும் உலகப் பெட்ரோலிய நாடுகளின் கட்டுப்பாட்டிற்கினங்க அவ்வப்போது ஏற்படும் விலைமாற்றங்கள் ஒரு நாட்டின் பொருளாதார ஸ்திரத்தன்மையை ஆட்டம் காண வைக்கின்றது. இந்தியாவும் கூட இதற்கு விதிவிலக்கல்ல!

எனவேதான் வருங்கால இந்தியாவின் பொருளாதார ஸ்திரத்தன்மையை நிலைநாட்டும் பொருட்டு பெட்ரோலியப் பொருட்களை நாடுவதினின்று விரைவில் விலகிவரல் வேண்டும்! இதுவே 2020 இந்தியாவின் தொழில்நுட்பத்திற்கு அடைய வேண்டிய இலக்காய் இருக்க வேண்டும். ஆம் ! இந்தியத் தொழில்நுட்பம் ஒன்றினைந்து ஒருசேர திட்டமிட்டு பெட்ரோலியத்திற்கு "மாற்று" காண வேண்டும். 2020ல் அத்தொழில்நுட்ப இலக்கை அடைந்திருக்க வேண்டும். எரிசக்தி தொழில்நுட்பமே எதிர்கால இந்தியாவின் தொழில்நுட்பம்.

மரபுசாரா எரிசக்தியால் மாபெரும் தொழில்நுட்பம்

எரிபொருளுக்கு மாற்றாக மரபுசாரா எரிசக்தியை பயன்படுத்தி வருகின்றோம். எரிபொருளுக்கு மாற்றாக மின்சக்தியை பெறுவதற்காக இந்தியாவின் இன்னொரு வழியாக மரபுசாரா எரிசக்தியினை பயன்படுத்தி வருகின்றோம்! ஆனால், மிகக் குறைந்தளவே அதன் பயனை அடைந்து வருகின்றோம்.

நீர் மின்சக்தி, அணுமின்சக்தி, அனல் மின்சக்தி மாத்திரமே நாட்டின் தேவைகளை பூர்த்தி செய்திராது. அந்த வகையில் தேவைக்கு அதிகமாகவும், எரிசக்தியைப் பெற மரபுசாரா எரிசக்தியை பயன்படுத்தி மாபெரும் தொழில்நுட்பம் கண்டு சூரியாற்றலை பெரிதும் பயன்படுத்தியும், காற்றாலைகளை பெருமளவில் நிறுவியும் மாபெரும் மின்னுற்பத்தி திட்டத்தை வெற்றி பெறச் செய்து மின்சக்தியில் தன்னிறைவு அடைவதோடு, எரிபொருளுக்கு மாற்றாய் மின்னாற்றலையே பயன்படுத்த வழிகாண வேணும்! ஆகவே நமது மாபெரும் இலக்காய் தொழில்நுட்பத்தில் இருக்கவேண்டும்.

தத் -வ-மஸி சார்ந்ததன் வண்ணமாதல்

தத்துவத் துறையில் ஆம்! எத்துனை நுட்பங்களும், யுக்திகளும் கண்டுபிடிப்புகளும் நிகழ்ந்தாலும் கூட அவை நம் தாய்நாட்டின் தன்மையை சார்ந்தே இருக்க வேணும். இந்தியாவிற்கு என்று இலக்கணமுண்டு. 120 கோடி மக்கள் தொகை, ஒரே பண்பாடு, ஒரே கலாச்சாரம், பலமொழிகள், பல்வேறு பழக்கவழக்கங்கள், உயர்ந்த மலைகள், தாழ்ந்த பள்ளத்தாக்குகள், பீடபூமிகள், பாலைவனங்கள், வண்டல் பிரதேசங்கள், வறண்ட நிலங்கள் இத்தனையுமடங்கியுள்ளது. இந்தியாவிற்குள் இனிவரும் எந்த தொழில்நுட்பமும் இந்த இந்தியாவிற்குதான் பயன்படும். எனவே தான் ஒட்டுமொத்த இந்தியாவும் பயன்பெறும் வகையில் இந்தியாவின் தன்மையைச் சார்ந்த தொழில் நுட்பமாய் மட்டுமே இருத்தல் வேண்டும்! இதுதான் இந்தியாவை கூட்டிக் காக்கும்.

தொழில்நுட்ப வளர்ச்சி 2020

இந்தியா பல இயற்கை செல்வங்களை உடைய செழிப்பான நாடு. தண்ணீரும் பலவித உலோகங்களும் ஏகமாய் கிடைக்கின்றன. மேலும் நீண்ட கடற்கரையும் கடலிலுள்ள உலோக, உயிரின வகைகளும் மற்றொரு பெருஞ்செல்வம். இந்திய மக்களின் தொழிற்திறனும், அறிவுத்திறனும் உலகின் பல்வேறு நாடுகளிலும் முன்பட்டு இருக்கிறது. தற்போது நம் இந்தியநாடு மின்னியல், மின்னணுவியல், கருவியியல், கணிப்பொறியியல், தகவல் தொடர்பியல், தொலைத்தொடர்பியல், இயந்திரவியல் மற்றும் பல பொறியியல் துறைகளிலும், மருத்துவத் துறையிலும், ஆய்வுத்துறையிலும், அணு ஆராய்ச்சித்துறையிலும் மிகச்சிறந்த நாடாகத் திகழ்கின்றது. இதன் மூலம் 2020ல் நம்முடைய இந்தியாவை அபரிமிதமான "தொழில்நுட்ப வளர்ச்சி கொண்ட நாடாக" மாற்ற முடியும்.

நாட்டுக்கு இலட்சியமும் தொலைநோக்கும் இன்றியமையாதன. கூட்டு முயற்சி முன்னேற்றம் தரும். "ஒன்றுபட்டால் உண்டு வாழ்வு" எனவே மனித இனம் மாண்புடன் முன்னேற தொழில்நுட்பம் வளர்ச்சி பெற வேண்டும். தொழில்நுட்பத்தின் மூலம் பல்வேறு விதமான வளர்ச்சி பெற்று "வளரும் நாடு" என்ற நிலையிலிருந்து "வளர்ந்த நாடு" என்ற நிலைக்கு கொண்டு செல்ல வேண்டும்.

முடிவுரை :

அறிவியல் எளிது. தனிமனிதனின் அறிவு நுட்பம் சார்ந்தது. தொழில்நுட்பமோ தனிப்பட்ட அறிவாற்றலால் மட்டும் அல்ல. பலரின் கூட்டுமுயற்சியால் பலரின் கூட்டு உழைப்பினால் கிடைக்கும் பலன். கல்வியால் ஏற்றது அறிவியல்! கடமையால் ஆற்றியது தொழில்நுட்பம். இனி மனித நேயத்தால் வழங்குவது பயன்பாடு. இந்த "அறிவியல் – தொழில்நுட்பம் – பயன்பாடு" ஆகிய மூன்று நிலைகளே இன்றைய நவீன உலகின் முப்பால்.

எந்த தொழில்நுட்பமும், கண்டுபிடிப்புகளும் நாட்டின் வளர்ச்சிக்காகவும், மனிதம் வாழ்வதற்காகவும் மனித வளத்திற்கு பெருமை சேர்ப்பதாய் மட்டுமே இருக்க வேண்டும். அதே வகையில் எந்த ஒரு தொழில்நுட்பமும் தவறாக பயன்படக்கூடாது என்பதில் எல்லோரும் ஓரணியில் இருக்கவேண்டும்!

"நல்லவைகளுக்காகவே நம் தொழில்நுட்பம்" என்ற சிறந்த மனப்பான்மை கொண்டு, நம்முடைய நாட்டின் வளர்ச்சிக்கு தேவையான சிறந்ததொரு தொழில்நுட்பத்தையே கையாள வேண்டும்.

"வளர்க பாரதம் ! ஓங்குக அதன் பெருமை"

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கடல் மேல் சில அலைகள்

அலைகள் மிக அழகானவை. கடற்கரையின் மணலில் கால் பரப்பி புதைந்திருக்கும் ஒரு பார்வையாளனுக்கு அவை அப்படித்தான் தெரியும். கடலில் முதன்முறையாக வெள்ளோட்டம் விடப்பட்ட ஒரு படகுக்குத்தான் அலைகளின் வீரியம் புரியும். மதகைகள் பின்தள்ளும் கடல் நீரின் அளவை ஒரு ஓட்டப்பந்தய வீரனின் உழைப்பை ஒத்தது.

தன் முதல் படத்தை இயக்கிக் கொண்டிருக்கும் இயக்குநராக நான் பரந்த கடலின்முன் நின்றிருந்தேன். இன்று ஷூட்டிங் செய்யப் போவது படத்தின் மிக முக்கிய காட்சி. நாயகன் மணல் கரையோரம் நாயகியுடன் ஆடப்போவதல்ல. காதல் ரசங்கள் வழியும் நீச்சல் காட்சியல்ல. இது என்னுடைய வாழ்க்கை போன்றது.

நல்ல இயக்குநர்களின் கனவாக இருக்கும் 'ஃபீரியாடிக் ஃபிலீம்' என் முதல் படமாக கிடைத்தது. கதைத்தளம் 1890களில் அமைந்தது. இலங்கையின் தேயிலை தோட்டத்திற்கு ஆட்களை ஏற்றிக் கொண்டு ஒரு ஆங்கிலேயக் கப்பல் ராமேஷ்வரத்திலிருந்து கிளம்புகிறது. காலனிய ஆதிக்கத்தின் கீழ் இருந்த தமிழ் பேசும் மக்கள் கூட்டமாக அந்தக் கப்பலில் ஏற்றப்படுகிறார்கள். கப்பலின் கொள்ளளவை விட இரண்டு மடங்காக அது நிரப்பப்படுகிறது. கடலின் நடுவே புயல் வீசி கப்பல் உடைகிறது. இறந்த பிணங்கள் தீவுகளைப் போன்ற மணல் திட்டுகளில் கரை ஒதுங்குகின்றன. அதில் இந்தக் கதையின் நாயகன் துரதிஷ்டவசமாக உயிர் பிழைக்கிறான். சுற்றிலும் பிணங்கள் கரைகளில் மிதக்க உயிர் உள்ள ஒரு துணையைத் தேடுகிறான். பரந்த கடலும் அலைகளும் மட்டுமே அவனது துணையாய் மிஞ்சுகின்றன. இத்தகைய ஒரு கட்டத்தில் அலைகளைத் தாண்டி ஒரு மரப்பலகை மிதக்கிறது. அதை நோக்கி அவன் நீந்துகிறான்.

இந்தக் காட்சியைப் படம்பிடிப்பதற்காக அனைத்தும் தயாராக இருக்கின்றன. இதற்கு முன் இங்கு பள்ளி வயதில் வந்து போயிருக்கிறேன். அப்பொழுது இருந்த வாழ்க்கை அவ்வளவு கஷ்டமில்லை. அது முதன்முறையாக நான் கடல் பார்த்தது. அதன்பின் ஒளிந்திருக்கும் பிரம்மாண்டம் அந்த வயதில் நான் அறியாதது. கரை பரப்பில் நானும் எனது அக்காவும் கட்டிய மணல் வீடுகள்தான் எனக்கு மிகப்பெரிய பிரம்மாண்டமாக தோன்றியது. இப்போது அதெல்லாம் மாறிப்போய் விட்டது. காலத்தின் முன் ஒவ்வொன்றின் இலக்கணமும் மாறுகிறது.

இந்த சினிமா மணல் வீடு கட்டுவதைப் போல் எளிதானதல்ல. சுயமரியாதையுடன் இருந்துகொண்டு துணை இயக்குனராக இருந்ததெல்லாம் கோடம்பாக்கத்து மேன்ஷன்களுக்குத் தெரியும். துணை இயக்குநராக இருக்கும் என் சக மேன்ஷன்வாசி கடல் அலையின் படத்தை சுவற்றில்

ஓட்டியிருப்பான் " You can't swim when the wave is on your side " இதுவரை இருபது படங்களில் வேலை செய்தாயிற்று. ஸ்டுடியோக்கள் தரும் உணவுக்காக வரிசையில் நின்ற நாட்கள் பர, ஒரு தட்டு இறைச்சி பிரியாணிக்காக என் கதை விலை போயிருக்கிறது. கரை நோச்கி துரத்தும் அலையில் சிக்கிய என் நாயகனைப் போல. அலை எதிர்த்து மணல் முட்டிய அவமானங்கள் எனக்கும் உண்டு. "உன் கதையை கூவத்தில் தூக்கிப் போடு" என்றிருக்கான் ஒரு ஹீரோ.

"இந்தக் கதைய எடுத்தா அது போடற தியேட்டர் எல்லாத்தையும் மண்டபமா மாத்திருவ" அந்த தயாரிப்பாளர் சொன்ன வகை படங்களைப் பார்த்திருந்தால் நான் இயக்குனராகவே நினைத்திருக்க மாட்டேன். என் கனவு அவமானங்களால் மூடப்படுவது போல் தோன்றியது.

எனது நாயகன் இப்பொழுது அலைகளை எதிர்த்து நீந்திக் கொண்டிருக்கிறான். கரை மணலிலிருந்து கிரேன் மூலம் ஒரு கேமராவும், பாய்மர படகில் ஒரு கேமராவும், நாயகன் பார்வையில் அலைகளைத்தாண்டி தெரியும் பலகையைக் காட்டியது.

"சார் ரொம்ப வேவியா இருக்குது, இன்னிக்கு கண்டிப்பா ஷூட் போகணுமா"

"அதுதான் நமக்கு தேவை, அத்தனையும் தாண்டி இலக்கை எட்டறதுதான் இந்த சீன்... என்ன ஹீரோ... டேக் போகலாமா? கேமரா இன் பொசிஸன்" என் இரண்டு வருட சினிமா அனுபவத்தில் நான் என் கனவை நோக்கி நீந்திக் கொண்டிருந்தேன். என் அப்பா அப்பொழுதுதான் தவறிப்போனார். பெரியப்பா இனி குடும்ப பொறுப்பு உன் மேல்தான் என்றார்.

"சினிமாலாம் மறந்துறு... என்ஜினியரிங் படிச்சிருக்க. என் ப்ரெண்ட் ஒருத்தன்கிட்ட சொல்லியிருக்கேன்.. நாளைக்குப் போய் பாரு"

திரைக்கதைத் தாள்களை பெட்டியில் பூட்டிவிட்டு டிகிரி சர்டிபிகேட் எடுத்து வைக்கும்போது அம்மா சொன்னாள். "இங்கப்பாருடா.... உங்கப்பா ஒரு தடவை நீ எழுதின கதையை படிச்சிட்டு ராத்திரி முழுக்க அழுதிட்டே இருந்தாரு. நம்ம பையனுக்கு தப்பான பாதையைக் காட்டிட்டுமேனு வருத்தப்பட்டாரு. இன்ஜினியரிங் அவரோட ஆசைதான். ஆனா நீ நல்ல டைரக்டரா வந்தாதான் நான் பெருமைப்படுவேன்னாரு. உன் கனவை நோக்கி நீ திரும்பி போடா"

முட்டிய அலைகள் என் ஹீரோவை அடுத்த வரிசையில் கடலை நோக்கி இழுத்தது. அவன் அடுத்த அலை வருவதற்குள் இன்னும் நீந்த எத்தனித்தான்.

"நம்ம சினிமா ஹீட் ஆகறத நான் பாத்துக்கிறன். மனசுக்கு நிறைவா நல்ல படம் தந்தோமுன்னு இருக்கணும். ஐ வாண்ட் ஹார்ட்லி சாட்டிஸிபிகேஷன்" என் தயாரிப்பாளர் எனக்கான அட்வான்ஸை தந்தபோது மரப்பலகை கொஞ்சம் கிட்டே தெரிந்தது.

"கடல்ல இருக்கிறமாதிரி ஸீன் வரும் அந்த காலத்திய கப்பல் செட் வேணும்" " இத்தனை வருஷமா ஆர்ட் டைரக்டரா பீல்டுல இருந்திருக்கேன். நான் பண்ற முதல் சினிமா சார் இது"

இப்பொழுது ஒரு பெரிய அலை மட்டும்தான் அதைத்தாண்டி விட்டால் என் நாயகன் அந்த பலகையைப் பிடித்துவிடுவான். கேமரா அந்த பெரிய அலையை மட்டும் படம்பிடித்துக் கொண்டது. நாயகன் அந்த மரப்பலகையை ஒட்டி இறக்கிவிடப்பட்டான். அவன் தன் கடைசி மூச்சினை இழுத்துக் கொண்டு நீந்தி பலகையை பிடித்து பெருமூச்சு வாங்கினான். இப்படியாக அந்த காட்சி எடுத்தாயிற்று.

நானும் பெருமூச்சு வாங்கினேன். நானும் கிட்டத்தட்ட அந்த பலகையைப் பிடித்துவிட்டேன். அலைகளை தாண்டிய அந்த சினிமா என்ற பலகை. இதுவரை நீந்தி தள்ளிய நீரின் அளவை என் உழைப்பை ஒத்தது.

என்முன்னே இப்போது பரந்த அமைதியான கடல் தெரிகிறது. அதன்பின் ஒளிந்திருக்கும் பிரம்மாண்டமும் அமைதியும் என்னுள் பயம் கொள்ளச் செய்கிறது. ஆனாலும் அலை தாண்டிய ஊக்கம் மனதில் இருக்க, நான் தாண்டுவேன் அந்த பிரம்மாண்டத்தை. என் கதை இன்னும் நீள்கிறது. தன் தேசம் தேடிச் செல்லும் என் நாயகனைப் போல.

❖❖❖

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மகிழ்ச்சியின்போது மாண்டு விடுகிறாய்
என்னுள் இருக்கும் கவிஞனே
அதனால்தான் நீ என்னுள் மட்டும் இருக்கிறாயோ
இந்த உலகிலுள்ள எவருக்கும் தெரியாமல்

ந. சத்யா,
(20063259)

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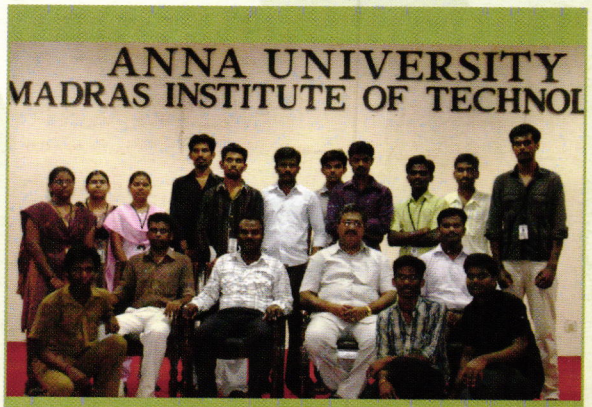

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