



*MIT*



*Virutchan*

**MITIANS BUSINESS UPDATES**  
(Monthly E Magazine)

Hearty Congratulations To our proud Alumni  
“ Mr. TM Jawaharlal, Mr. R. Balaji &  
Mr. C. Shanmuganathan”

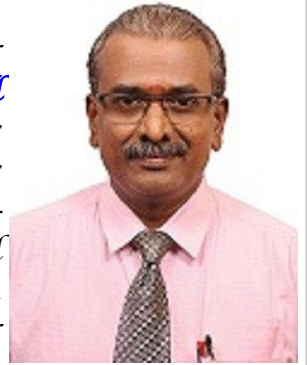
For their exemplary contributions in the Service of India ”





## Editorial

The sixth issue in the year 2022 is ready and its there now for leisure reading for all us. The issue comes on an auspicious day “**Full moon day**” the last day in the Tamil month Vaikasi. The last 30 days witnessed onset of southwest monsoon rains in all the southern states despite hot weather prevailing all over. The school children have started loading their back with their school bags after nearly two years and lets hope that the current scenario will continue without any break. The plus one and plus two students have successfully written their board exams and eagerly planning to start their promising and aspiring college courses.



### **This issue highlights:**

The MIT campus had seen celebration of individual department functions, alumni meets and good to see the students getting back to their energetic and enthusiastic days. The Flight 2022 organized by Aero Dept have invited distinguished alumni of Aero department from different parts of the country which has inspired all the budding engineers in the campus. The preparations for Platinum Jubilee celebrations from June 2023 is under discussion by the Dean of the campus and soon will be known to all. We, the proud alumni of MIT are highly indebted to the glorious institute and everyone are eager to contribute as much as one could capable of.

MIT Entrepreneurs Association ( MITEA ) have organized an event “**Investment Meet and Interactive Conclave**” for all the entrepreneurs of MIT and the speakers Mr. B. Ramakrishnan and Mr. Sivaramakrishnan gave lots of inputs and insights for Financial planning and investment. The event was organized at IIT Madras Research Park on 21st May 2022.

The issue covers a special feature on “**Know more about our alumnus**” in which the contributions made by Mr. Veluchamy, the Global Head of M&M was truly inspiring and will definitely kindle more students to aspire more research works in automobile sectors.

The highlights of the event, “**Founder’s Day, Institute Day & Alumni Day**” organized by MITAA ( MIT Alumni Association ) on 11th June 2022, Saturday at the renovated Rajam Auditorium receives a special applause from all the alumni around the globe. We wholeheartedly congratulate the awardees ; Mr. TM Jawaharlal, 16th Auto, Patron of MITAA, Mr. R. Balaji, 15th Electronics Founder MD IA Flow Systems and Mr. C. Shanmuganathan, 9th batch PT, MD of Kaliswari Group of Companies for their exemplary contributions in “ The service of India” fulfilling the motto of MIT. Outstanding awards and scholarships were also given to the students of MIT. We wish the event to be organized for many more years to come which will benefit more hardworking and dedicated students. I sincerely make an appeal to all the readers, alumni and students who are reading the E Magazine to contribute by writing your articles and comments on the contents published and how it can be improvised to make it more interesting and useful.

I would like to express my sincere thanks to all the editorial team and the readers for their motivating support and encouragement.

**Yendrum Anbudan**  
**Dr.K.Elamvazhuthi TNo 01602**  
**Founder & Chief Editor**



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( Volunteers are kindly requested to join the Editorial Team. Interested can mail to [mitvirutcham@gmail.com](mailto:mitvirutcham@gmail.com) )

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- MIT Campus, Anna University Updates: **Dr. Neelavathi Pari, Asso Prof of CSE Dept, & Head EDC cell, MIT Campus, Anna University. Mob: +91 99628 27638**
- Achievements of MITians in Academics : **Mr. Thayanithi, TNo: 2011508026, RPT Dept, presently in KTH Royal Institute of Technology, Sweden**



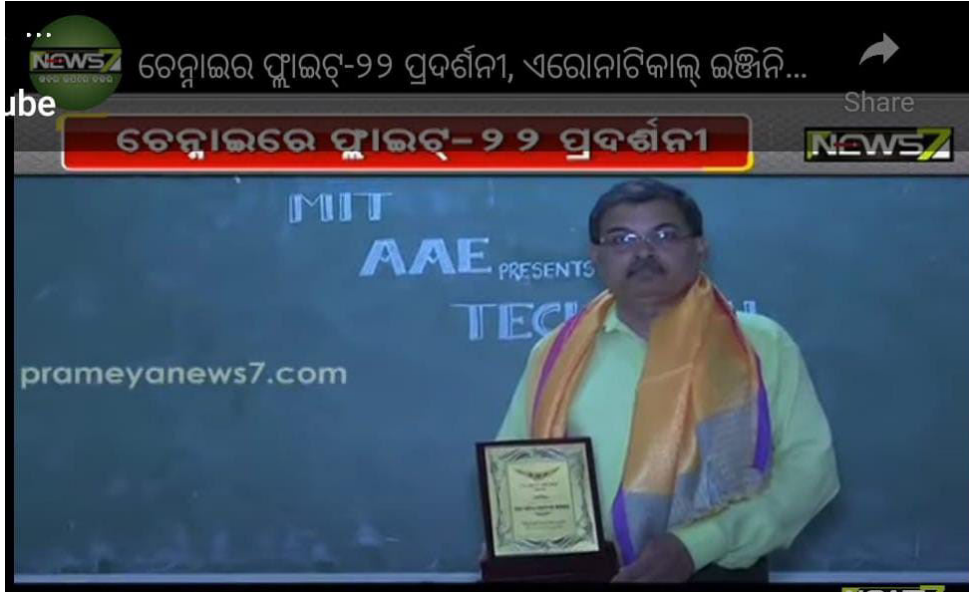
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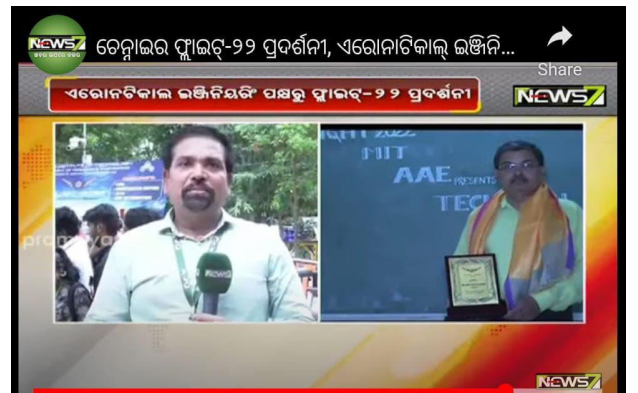
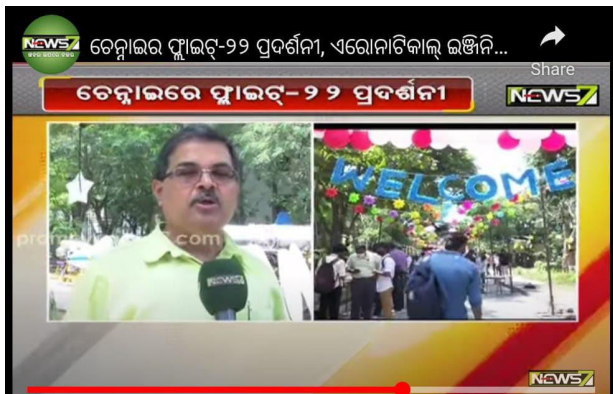




### Important News from the media.



Mr. Surya N Mishra, 31st Aero alumnus of MIT, has been felicitated during Aero Meet Flight 2022 Celebrations at MIT Campus and Orissa News7 Channel made a live coverage of the show in TV. Congratulations.







## Important News from the Press media

newindianexpress.com

# Transwoman Mayasri takes centre stage at Bharat Drone Mahotsav

BINITA JAISWAL @Chennai

“LIKE men and women, we are talented and can become pilots or CEOs. Judge us by our talent, not by our gender,” said 24-year-old Mayasri, one of the State’s first few transwomen drone pilots who trained at Anna University. Last Saturday, Mayasri stole the spotlight at the Bharat Drone Mahotsav. She addressed an audience of the drone industry’s brightest during a panel discussion. This was beyond her wildest dreams.

“Till six months ago, I was begging on the streets of Chennai and struggling to arrange two square meals a day. But, recently, I shared a stage with renowned faces of the drone industry at Delhi, addressing an august gathering at the national event inaugurated by the PM,” Mayasri, a native of Tiruchirappalli, said.

Mayasri is one among the first four transpersons who were trained and appointed as drone pilots by the Remote Pilot Training Organisation (RPTO) at the Centre for Aerospace Research (CASR), Anna University. As a part of CSR activity by Indian Oil, Mayasri and three other transpersons were identified by an NGO and were trained as drone pilots at the RPTO. Currently, she is an instructor at the RPTO and trains upcoming drone pilots.

But, the journey to the skies was turbulent. Despite having a B.Sc degree in computer science, she did not get employment due to her identity. Further, when Mayasri came out in public as a transwoman, she was disowned by her family.

“Like other transpersons, I have also been through hell and survived with the odd jobs usually done by my community. But, since November 2021, when I landed in Anna University to train as a drone pilot, my life has become sweeter. Today, I train police officers, agriculture officials. This job is not just about money but it has brought dignity and respect,” said Mayasri.

Since Mayasri, RPTO has trained at least 14 transpersons as drone pilots. Several were



Transwoman drone pilot Mayasri on stage at the Bharat Drone Mahotsav in Delhi last Saturday | EXPRESS

absorbed by Daksha, a firm under Anna University’s guidance, which operates drones with applications in surveillance, agriculture and defence.

K Senthil Kumar, director of CASR said, “Mayasri’s participation was a proud moment for the institute.”

“The batch of transpersons underwent training and they were absorbed by the Daksha for different projects based on their talent. We must give transpersons an equal opportunity to work and prove themselves,” said Daksha Unmanned Systems CEO, N Ramanathan.

## L&T to offer abridged industry-oriented courses

SPECIAL CORRESPONDENT  
CHENNAI

Larsen and Toubro’s hybrid learning platform L&T EduTech has proposed to offer abridged industry-oriented courses to Anna University’s pre-final and final year students.

The platform aims to provide live industry exposure through simulated laboratories and immersive programmes.

“L&T EduTech has created exciting applied engineering courses that draw competitive advantage from the skills it has developed over the past several decades to help learners build essential skills with real-world problems to meet the demands of an ever-evolving industry,” said Vice-Chancellor R. Velraj.

The organisation was offering courses under college connect, profes-

sional and vocational skilling with assessment and certification processes.

The College Connect vertical curates holistic, multi-disciplinary, industry-relevant courses in core engineering streams such as civil, electrical, mechanical and information technology, that are offered as interactive learning modules in blended mode.

### Familiar structure

These courses are in line with the credit system for engineering and can fit into the existing semester pattern as well.

The L&T EduTech has signed an agreement with the All India Council for Technical Education.

The Council will feature L&T EduTech’s learning modules that engineering students can access.

## பெரிய அருவி அமெரிக்காவில் உள்ள நயாகரா நீர் வீழ்ச்சி நுழைவாயிலில் பெரிய மொழி “நல் வரவு” என தமில் எழுதி வைக்கப்பட்டுள்ளது. அங்கு ஏன் தமிழ் மொழியில் எழுதி வைக்கப்பட்டு உள்ளது என்பதற்கு அவர்கள் கூறும் பதில் என்ன தெரியுமா?

உலகின் மிகப்பெரிய நீர் வீழ்ச்சி நயாகரா. அதுபோல் உலகின் மிகப்பெரிய மொழி அதாவது தொன்மையான மொழி தமிழ். அதனால் தான் உலகின் மிகப்பெரிய நீர்வீழ்ச்சியான நயாகராவில் உலகின் மிகப்பெரிய மொழியான தமிழை எழுதி வைத்துள்ளோம் என்கிறார்கள்.

பூமியை போன்று வேறு கிரகங்களிலும் மனிதர்கள் உள்ளார்களா என்பதை அறிய விஞ்ஞானிகள் தீவிர ஆராய்ச்சியில் ஈடுபட்டு வருகின்றனர். இதற்காக நாசா விண்வெளி ஆய்வு மையம் செவ்வாய் கிரகத்துக்கு அனுப்பிய சர்வேயர் விண்கலத்தில் தமிழில் பேசப்பட்ட ஆடியோ ஒலிப்பதிவு ஒன்றையும் சேர்த்து அனுப்பியதாம். தமிழ் மிகமிக தொன்மையான மொழி என்பதால் வேற்றுலக வாசிகளுக்கு ஒருவேளை அது தெரிந்திருக்கலாம் என்று கருதிய விஞ்ஞானிகள் அவ்வாறு செய்துள்ளனர். அவ்வளவு பெருமை வாய்ந்தது நம் தாய் மொழி தமிழ்.







**தினமலர்**

சென்னை | சனிக்கிழமை | 4.6.2022

# குலசேகரப்பட்டினத்தில் ராக்கெட் ஏவுதளம்

## ‘இஸ்ரோ’ முன்னாள் தலைவர் சிவன் தகவல்

மதுரை, ஜூன் 4-  
“குலசேகரப்பட்டினத்  
தில் ராக்கெட் ஏவுதளம்  
அமைக்க மண் ஆய்வு  
நடந்து வருகிறது,” என,  
இஸ்ரோ முன்னாள்  
தலைவர் சிவன்  
தெரிவித்தார்.

மதுரையில் அவர்  
கூறியதாவது:

மாணவர்களின்  
அறிவியல் முன்னேற்  
றத்திற்காக, இந்திய  
விண்வெளி ஆராய்ச்சி  
நிறுவனமான இஸ்ரோ,  
தனது பங்களிப்பை  
வழங்கி வருகிறது.  
ஆண்டிற்கு 4 - 5  
கோடி ரூபாய் வரை  
ஒதுக்கப்படுகிறது.

மாணவர்களுக்காக  
கோடை கால பயிற்சி  
வழங்கப்படுகிறது.  
போதிய விழிப்புணர்வு  
இல்லாததால்  
பயிற்சியில் குறைந்த

அளவிலேயே  
சேர்ந்து  
பயன்  
அடைகின்றனர்.

இனி வரும்  
காலங்களில்  
அதிக மாணவர்  
களை சேர்க்க  
விழிப்புணர்வு  
ஏற்படுத்தப்  
படும். தமிழக  
பள்ளி கல்வித்து  
றையிலும், இதுகுறித்து  
தெரிவிக்கப்பட்டுள்ளது.

தூத்துக்குடி  
மாவட்டம், குலசேகர  
ப்பட்டினத்தில் ராக்கெட்  
ஏவுதளம் அமைக்கும்  
பணி நடந்து வருகிறது.  
2,200 ஏக்கர் நிலம்  
தேவையாக இருந்ததில்,  
மாநில அரசு  
1,850 ஏக்கர் நிலம்  
கையகப்படுத்தி  
கொடுத்துள்ளது.  
ஏவுதளம் அமைப்



சிவன்

பதற்கான  
மண்ணின்  
தரம் குறித்த  
ஆய்வு நடக்  
கிறது. விரைவில்  
ஆய்வு முடிந்து  
பணிகள்  
துவங்கும்.

உலகள  
வில் ஒப்பீடும்  
போது, நம் நாடு  
விண்வெளி

ஆராய்ச்சியில் முன்  
னேற்றம் கண்டுள்ளது.  
இன்னும் ஒரு சிலவற்  
றில் நாம் முயற்சிக்க  
வேண்டியுள்ளது.

விண்வெளிக்கு  
மனிதனை அனுப்பு  
வதில், நாம் இன்னும்  
இலக்கை அடைய  
வில்லை. படிப்படியாக  
நாம் முன்னேறி  
வருகிறோம்.

இவ்வாறு அவர்  
கூறினார்.





## Highlights of MIT Entrepreneurs Association ( MITEA )

MITEA organized the “ **Investment Meet - Full day Interactive Conclave**” at Sarabhai Hall, IIT Madras Research Park, E Block, Chennai on 21st May 2022, Saturday from 10.00 am to 05.00 pm. Some of the pictures and points discussed during the meet is being shared herewith:



**MITEA**  
MIT ENTREPRENEURS ASSOCIATION  
Regd No: 121 / 2020

# MITEA MIT ENTREPRENEURS ASSOCIATION

Reg. Off: Galaxy Communication Service Pvt Ltd, No.18, Fourth Street, Karpagam Avenue, R.A. Puram, Chennai - 600028, Tamil Nadu, India. Email id : miteachennai@gmail.com



IN THE SERVICE OF  
MIT  
INDIA

**" INVESTMENT MEET - FULL DAY INTERACTIVE CONCLAVE "**

**Session 01 : 10:00 AM**  
**Mr. B. Ramakrishnan (BRK)**  
CEO, Corporate Clinic,  
BRK Academy, Chennai.





**Session 02 : 02:00 PM**  
**Mr. R. Sivaramakrishnan**  
Managing Consultant,  
Sincere Syndication, Chennai.



Date : 21-05-2022 - Saturday | Venue : IIT Madras Research Park, E-Block, Sarabhai Hall, Chennai. | Time : 10:00 am to 05:00 pm

**EVENT SPONSOR :**



**Mr. Prateek Bhandari**  
M/S International Advisory Council,  
Chennai.

**EVENT CO-SPONSORS :**



**Mr. K. V. Seshasayee**  
M/S Auto Value Systems  
Pvt Ltd., Chennai.



**Mr. Abdul Kader**  
M/S Pranam Leathers.,  
Chennai.



**Mr. Selvakumar**  
M/S Trittech Elastomers  
Pvt Ltd., Chennai.

**Dr. K.V. Seshasayee, 14th Auto, Founder & Director Auto Value Pvt Ltd, felicitating the Guest Speaker Mr. B. Ramakrishnan, BRK Academy, Chennai.**



**Dr. M. Ramesh Prabha, President MITEA, giving memento to the Guest Speaker Mr. B. Ramakrishnan, BRK Academy, Chennai.**



**Mr. Abdul Kader, Pranam Leather is given a memento by the Guest Speaker for being one of the Co Sponsors**



**Mr. Prateek Bhandari is given a memento by the Guest Speaker for being the Main Sponsor.**



**Mr. Selvakumar, Trittech Elastomers is given a memento by the Guest Speaker for being one of the Co Sponsors**







# Highlights of MIT Entrepreneurs Association ( MITEA ).contd.



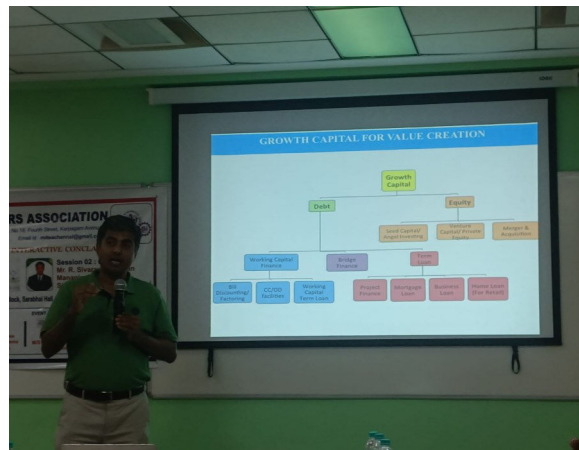
The Guest Speaker Mr. BRK is given a memento by the President and the EC team of MITEA



The Guest Speaker Mr. Sivaramakrishnan is being felicitated by Mr. BRK,



Senior Dr. K.V.Seshasayee, 14th Auto sharing his entrepreneurial venture experiences.



The Participants & MITEA EC Team with the Guest Speakers Mr. B. Ramakrishnan & Mr. Sivaramakrishnan



The Guest Speaker Mr. Sivaramakrishnan is being given memento by Mr. N. Ramachandran, MD, MELS





## Highlights of MIT Entrepreneurs Association ( MITEA )..contd.



### MIT ENTREPRENEURS ASSOCIATION

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### MITEA

Investment Meet  
Presentations  
21.05.2022  
Saturday  
( Full Day Event  
from 10.00 am)



**Shri B. Ramakrishnan**, well known in the financial circles as BRK, holds a Post Graduate Diploma in Management with specialization in Finance. After his educational qualification, he joined H C Kothari Group of companies in 1989, headed then by Late Sri. Bhadrashyam H Kothari (popularly known as Shyam Kothari) as an Executive and went on to head the finance function of the company in 1996-97. He was part of the team that floated the first private sector Mutual fund in India. After almost a decade with H C Kothari group, BRK started his own consulting firm and floated **Corporate Clinic©** during 2003.

**Corporate Clinic©**, is a well-known consulting firm based out of Nandanam, Chennai which specializes in raising debts (FCTL, INR, ECB, Commercial papers, rated bonds etc), equity (PE, VC, Incubator fund, IPO, Mutual funds, Convertible bonds etc), merger & acquisition, turn around strategies, transactional financing etc.

BRK also has an education outfit, BRK Academy ©, which floated the first Finance Lab© in the world. BRK Academy demonstrates finance to students with both finance & non-finance background, entrepreneurs, technocrats, MSME, doctors etc. BRK Academy© has been accredited by ACCA, UK and MSME, Government of India for the programs.

MITEA 's Investment Meet on 21.05.2022, Saturday





## Highlights of MIT Entrepreneurs Association ( MITEA )..contd.



### MIT ENTREPRENEURS ASSOCIATION

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### MITEA

Investment Meet  
Presentations  
21.05.2022  
Saturday  
( Full Day Event  
from 10.00 am)



### **Shri. R. Sivaramakrishnan** : A management & strategy

professional with proven experience in the functional in the functional areas of business management, finance and investment

banking. Siva has worked with large companies & start - ups in India, Indonesia & Singapore with business exposure to the geographies of India, SE Asia, Europe and the US. He has led teams of professionals from various geographies to achieve organizational goals.

He held responsible positions of Energy, Banking, Private Equity, Digital Media, FMCG, Retail Distribution, Manufacturing, Engineering and Plantations. Siva has been at the forefront of raising over Rs 5500 crores ( USD 800 million) of funds in the form of debt & equity & through mezzanine structures in India, Singapore and Indonesia. Besides, he has been of M & A transactions worth over Rs. 4200 crores. Siva's innovative out - of - box business solutions & constant endeavor to create value for the client have been a key strength of Sincere Syndication. Siva is a qualified Chartered Accountant from The Institute of Chartered Accountants of India.

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MITEA 's Investment Meet on 21.05.2022, Saturday





# Timeline of Inventions 1900 - Onwards

## TIMELINE OF INVENTIONS 1900 - ONWARDS

Energy and technological advances have changed the way we work, entertain and communicate in the modern world. This is the story of our technological age and history.

<b>1900</b> The first radio transmission is received by <b>Giuglielmo Marconi</b> across the Atlantic Ocean.	<b>1901</b> The <b>Teddy Bear</b> is invented.	<b>1902</b> <b>Crayons</b> are invented by <b>Edward Binney</b> and <b>Harold Smith</b> .	<b>1903</b> <b>Mary Anderson</b> invents windshield wipers.	<b>1903</b> <b>Orville and Wilbur Wright (The Wright Brothers)</b> invent the first successful aeroplane.	<b>1904</b> <b>Thomas Sullivan</b> invents the teabag.	<b>1905</b> 11 year old <b>Frank Eperson</b> invents the <b>Ice Lolly</b> .
<b>1905</b> <b>Albert Einstein</b> develops the <b>Theory of Relativity</b> .	<b>1907</b> <b>Leo Baekeland</b> invents 'Bakelite' an inexpensive, non-flammable, versatile plastic is the start of the modern plastics industry.	<b>1907</b> <b>Paul Cornu</b> invents the first piloted helicopter.	<b>1908</b> <b>Henry Ford's Ford T</b> is first sold.	<b>1910</b> The first talking motion picture is demonstrated by <b>Thomas Edison</b> .	<b>1910</b> <b>Georges Claude</b> displays the first neon light to the public in Paris.	
<b>1910</b> <b>Charles Franklin Kettering</b> invents the electrical ignition system for cars.	<b>1912</b> The first Tank is patented by Australian inventor <b>De La Mole</b> .	<b>1913</b> <b>Gideon Sunback</b> invents the modern zipper.	<b>1914</b> <b>Garrett A. Morgan</b> invents the Gas Mask.	<b>1916</b> <b>Ernst Alexanderson</b> unveils his tuned radio receiver, which allowed the user to change frequencies/stations.	<b>1916</b> <b>Stainless Steel</b> is invented by <b>Henry Brearley</b> .	
<b>1915</b> <b>Edwin Howard Armstrong</b> invents the <b>Superheterodyne Radio Circuit</b> . Today every radio or television uses this.	<b>1919</b> The <b>Pop Up Toaster</b> is invented by <b>Charles Strite</b> .	<b>1920</b> The <b>Tommy gun</b> is patented by <b>John T. Thompson</b> . It was capable of a high rate of fire.	<b>1920</b> <b>Band-Aid adhesive plasters</b> are invented by <b>Earle</b> .	<b>1921</b> The first <b>Robot</b> is built, artificial life begins.	<b>1922</b> The first <b>3D movie</b> 'The Power of Love' is released.	<b>1923</b> <b>Clarence Birdseye</b> invents the concept of frozen food.
<b>1925</b> The <b>mechanical television</b> is invented by <b>John Logie Baird</b> . This would 2 year later become the modern television.	<b>1926</b> <b>Robert H. Goddard</b> invents liquid fuelled rockets.	<b>1928</b> Scottish biologist <b>Alexander Fleming</b> discovers <b>Penicillin</b> which became a treatment for many serious illnesses.	<b>1924</b> The <b>dynamic Loud Speaker</b> is invented by <b>Edward W. Kellogg</b> .	<b>1928</b> <b>Bubble Gum</b> is invented by <b>Walter E. Diemer</b> .	<b>1928</b> <b>Jacob Schick</b> patents his invention, the <b>electric shaver</b> .	
<b>1928</b> <b>Paul Galvin</b> invents the <b>car radio</b> .	<b>1930</b> <b>Frank Whittle</b> and <b>Dr. Hans Von Ohain</b> invent the jet engine.	<b>1930</b> The 'differential analyzer' or <b>analog computer</b> is invented by <b>Vannevar Bush</b> . This computer can solve equations and is one of the first computing devices to be used operationally.	<b>1931</b> German <b>Max Knott</b> and <b>Ernst Ruska</b> co-invent the <b>electron microscope</b> .	<b>1932</b> <b>Polaroid Photography</b> is invented by <b>Edwin Herbert Land</b> .	<b>1933</b> <b>Stereo Records</b> are invented - more dynamic and enjoyable sound when listening to music.	
<b>1930</b> <b>Percy Shaw</b> invents <b>Cats-Eyes</b> (road reflectors) a road marking that makes driving safely.	<b>1935</b> <b>Robert Watson Watt</b> patents <b>Radar</b> - an object detection system with uses radio waves to find out where objects are and their speeds.	<b>1935</b> The first <b>canned beer</b> is made.	<b>1935</b> <b>Charles Darrow</b> invents the famous board game <b>Monopoly</b> .	<b>1935</b> <b>Wallace Carothers</b> and <b>DuPont Labs</b> invent <b>Nylon</b> which was used in women's stockings.	<b>1937</b> <b>Chester F. Carlson</b> invents the <b>photocopier</b> .	
<b>1938</b> <b>Roy J. Plunkett</b> invents <b>Teflon</b> , the non-stick coating for cookware.	<b>1941</b> <b>Kunrad Zuse's Z3</b> is the first computer to be controlled by software.	<b>1941</b> <b>Aerosol Cans</b> are invented by <b>Lyle David Goodloe</b> and <b>W.N. Sullivan</b> .	<b>1942</b> <b>John Atanasoff</b> and <b>Clifford Berry</b> build the first electronic digital computer.	<b>1943</b> <b>Richard James</b> invents the toy <b>'Slinky'</b> .	<b>1942</b> <b>Emile Bagan</b> and <b>Jacques Cousteau</b> invent the <b>'Aqua-Lung'</b> an apparatus for breathing underwater.	<b>1945</b> The <b>atomic bomb</b> is invented. America ends WWII by bombing Japan.
<b>1940</b> <b>Percy Spencer</b> invents the <b>microwave oven</b> .	<b>1947</b> <b>Bardeen, Brattain, and Shockley</b> invent the <b>transistor</b> , a fundamental building block of modern electronics.	<b>1948</b> The <b>Frisbee</b> is invented by <b>Walter Frederick Morrison</b> and <b>Warren Franscioni</b> .	<b>1948</b> <b>Velcro fastener</b> is invented by <b>George de Mestral</b> .	<b>1948</b> <b>Robert Jones</b> invented the <b>Wurlitzer Jukebox</b> .	<b>1950</b> The <b>credit card</b> is invented by <b>Ralph Schneider</b> .	<b>1952</b> The first patent for bar codes is issued by inventors <b>Joseph Woodland</b> and <b>Bernard Silver</b> .
<b>1950</b> The <b>transistor radio</b> is invented that used smaller transistor technology allowing for a more portable radio. These became the most popular communication device in history.	<b>1954</b> <b>Ray Kroc</b> opens the first <b>McDonald's</b> opens in America.	<b>1954</b> The <b>Solar Cell</b> is invented by <b>Chaplin, Fuller and Pearson</b> .	<b>1954</b> The first colour television is invented.	<b>1954</b> <b>Optical Fibre</b> is invented, allowing light/information to be transferred one end to the other and at great speed.	<b>1956</b> The first computer <b>hard drive</b> is used in a computer (the <b>IBM 305 RAMAC</b> ). This hard drive weighed 1 tonne.	
<b>1957</b> Russia launches the first satellite named <b>Sputnik</b> , into outer-space.	<b>1958</b> The <b>pacemaker</b> is invented - an electrical device that is placed onto the heart to regulate the heart-beat in people with heart conditions.	<b>1958</b> <b>Gordon Gould</b> invents the <b>laser</b> .	<b>1958</b> The <b>Hula-Hoop</b> is invented by <b>Richard Knerr</b> and <b>Arthur Melin</b> .	<b>1958</b> The <b>integrated circuit</b> is invented. An extremely compact circuit which has revolutionized the world of electronics.	<b>1959</b> The <b>Barbie Doll</b> is introduced to the American toy industry. It originally sold for \$3.	
<b>1960</b> Russian cosmonaut <b>Yuri Gagarin</b> undertakes the first <b>human spaceflight</b> and makes one orbit around the Earth in the <b>Vostok 1</b> spacecraft launched by the Soviet Union.	<b>1962</b> The first <b>videogame</b> is created called 'Spacewar'.	<b>1962</b> The <b>audio cassette</b> is invented.	<b>1965</b> <b>Contact lenses</b> are invented.	<b>1965</b> The first <b>handheld calculator</b> is invented.	<b>1968</b> The <b>computer mouse</b> is invented which used two wheels to register movements up and down.	
<b>1969</b> The <b>artificial heart</b> is invented, that is used to replace the heart during a heart transplant. This was a major medical breakthrough which is responsible for saving many lives.	<b>1969</b> NASA's <b>Apollo 11 moon landing</b> space mission is successful - <b>Neil Armstrong</b> is the first man on the Moon.	<b>1969</b> The <b>ATM (Automated Teller Machine)</b> is invented.	<b>1969</b> The <b>floppy-disk</b> is invented, a convenient way of transferring data between different computers.	<b>1969</b> The <b>barcode scanner</b> is invented. Checkout operators no longer have to painstakingly enter numbers.	<b>1971</b> <b>Dr. Martin Cooper</b> invents the first portable <b>mobile phone</b> which weighed 2.2 pounds.	
<b>1970</b> The <b>liquid-crystal display (LCD)</b> is invented by <b>James Ferguson</b> .	<b>1972</b> The iconic video game <b>'Pong'</b> is invented by <b>Nolan Bushnell</b> .	<b>1973</b> <b>Ethernet (Local Area Network)</b> is invented by <b>Robert Metcalfe</b> and <b>Karoz</b> .	<b>1973</b> <b>Post-it-notes</b> are invented by <b>Arthur Fry</b> .	<b>1975</b> The <b>Rubik's puzzle cube</b> is invented.	<b>1975</b> The first <b>digital camera</b> is invented by <b>Steve Sasson</b> of <b>Kodak</b> . The camera only had 0.01 megapixels.	
<b>1977</b> <b>Magnetic resonance imaging (MRI)</b> is invented by <b>Raymond V. Damadian</b> .	<b>1978</b> The arcade videogame <b>Space Invaders</b> is released in 1978.	<b>1979</b> <b>Sony</b> releases the <b>Walkman</b> , a portable cassette player.	<b>1981</b> <b>IBM</b> releases its first <b>PC (personal computer)</b> .	<b>1982</b> The <b>Compact Disk (CD)</b> becomes commercially available.	<b>1983</b> The first consumer <b>camcorders</b> become available.	<b>1984</b> <b>Apple</b> releases the <b>Macintosh</b> , the first computer with a graphical interface.
<b>1980</b> <b>Microsoft</b> and its founder <b>Bill Gates</b> release the first <b>Windows operating system</b> for PCs.	<b>1986</b> <b>Fuji</b> releases the first <b>disposable camera</b> .	<b>1987</b> The first <b>3D game</b> is released called <b>3D World Runner</b> .	<b>1989</b> <b>Nintendo</b> releases its portable video game system the <b>'Gameboy'</b> .	<b>1990</b> <b>Hubble Space Telescope</b> is launched, providing detailed images of space which reveal never before seen parts of our universe.	<b>1991</b> The <b>World Wide Web</b> or <b>WWW</b> is invented.	
<b>1990</b> Japanese Electronic Industries Development produces the first <b>memory card</b> .	<b>1991</b> The first <b>webcam</b> is invented at <b>Cambridge University</b> .	<b>1993</b> <b>Intel</b> releases its <b>Pentium processor</b> which made computers much faster.	<b>1995</b> Both <b>Amazon</b> and <b>eBay</b> are founded, paving the way for internet shopping.	<b>1995</b> <b>DVD</b> (Digital Versatile Discs) are released.	<b>1995</b> The first <b>cloned animal</b> is born, a female sheep named <b>Dolly</b> .	
<b>1996</b> A group of companies create <b>USB (Universal Serial Bus)</b> a truly universal connection for many electronic devices.	<b>1998</b> <b>Apple</b> a failing and unpopular computer company releases the <b>Mac personal computer</b> . Apple is now one of the most successful companies in the World.	<b>1998</b> <b>Google</b> is launched, originally starting as a research project by 2 PhD scholars. It is now one of the most powerful companies in the World, no longer just a search engine.	<b>1998</b> <b>Bluetooth</b> technology is invented, allowing transfer of files wirelessly.			
<b>2000</b> <b>GPS (Global Positioning System)</b> becomes available to regular people for the first time.	<b>2000</b> Completion of the <b>Human Genome Project</b> .	<b>2000</b> <b>YouTube</b> is created and makes video sharing online possible.	<b>2000</b> <b>Toyota</b> released the <b>Toyota Prius</b> , the first <b>hybrid car</b> available in the United States.	<b>2001</b> The first <b>iPod</b> was released and could hold up to 1,000 songs digitally rather than having to carry CD's and cassette tapes.	<b>2003</b> <b>Skype</b> was created, making it possible to speak to people all over the world for free with the use of the internet.	<b>2003</b> <b>Camera Phones</b> are invented.
<b>2000</b> The launch of <b>Google Maps</b> , changing the way people travel forever.	<b>2006</b> <b>Blu-ray Discs</b> become available, designed to supersede the DVD format.	<b>iPhone</b> It's the first of its kind - the smart phone.				





## நமது கலாச்சாரம்

நமது கலாச்சாரம்

உப்பில் இருப்பது அசுர குணம்...

தேனில் இருப்பது தேவர் குணம்...

சித்தர்கள் உப்பை பற்றி என்ன சொல்லி உள்ளார்கள் ?

இறந்தவைகளை பாதுகாக்க பயன்படுவது உப்பு...

உப்பு மனிதன் குருதியில் கலந்தவுடன் மிருக குணம் வந்து விடும் ,இது இறை நிலைக்கு எதிர் மறையான பலனை உடையது இறைவனுக்கு படைக்கும் எந்த உணவிலும் உப்பை சேர்க்க மாட்டார்கள்

இனிப்பு இல்லாமல் செய்ய மாட்டார்கள் ..

ஒரு உடல் இறந்த பின்பும் பதபடுத்த வேண்டும் என்றல் உப்பை கலந்து வைத்தால் அவை அப்படியே இருக்கும் . உப்பு மனிதர்களுக்கு நிறைய நோய்களை கொடுக்கும் .

சித்த வைத்திய முறையில் உப்பை சேர்க்காமல் உணவு உண்ண பத்தியம் உண்டு ,கைதேர்ந்த வைத்தியர்கள் இதை அறிவார்கள் ...

தேன்....

தேன் இனிப்பு சுவை உடையது என்று எல்லோருக்கும் தெரியும் . சித்தர்கள் என்ன சொல்கிறார்கள் தெரியுமா ?

தேன் தன்னுடன் சேரும் பொருளை கெடுக்காது தானும் கெடாது .. தேன் நாக்கில் மட்டும் இனிப்பை தரும் ஆனால் தொண்டை வழியே உள்ளே சென்றவுடன் இது கசப்பாக மாறிவிடும் தன்மை உடையது . இதனால் தான் தேனை கொண்டு மருந்தை கலந்து தந்தார்கள் . மேலும் தேன் உயிர் சக்திகளை தரும் பொருளை அப்படியே வைத்து இருக்கும் .

ஒரு நெல்லி கனியை தேனில் ஊரப்போட்டு அதை 50 வருட காலம் கழித்து எடுத்து சாப்பிட்டால் அதன் உயிர் சக்தி அப்படியே இருக்கும் .

இதனால் சித்த மருத்துவத்தில் தேனில் கலந்த லேகியம் தருவார்கள் ..

மனிதன் நல்ல ஆரோக்கியத்துடன் வாழ:-

1.மாதம் 2 முறையாவது 3 வேளையும் உப்பு இல்லாமல் உண்ண பழகி கொள்ளவேண்டும் .



## நமது கலாச்சாரம்...contd

2.அடிக்கடி தேன் சேர்த்து உண்ணவேண்டும் .

தேன் சர்க்கரை நோய்களை தூண்டாது .

3.தேனுடன் பால் கலந்து சாப்பிட சுண்ணாம்பு சக்தி நிறைய கிடைக்கும்

நோய்கள் உப்பின் தேக்கத்தால் வருகிறது .

உப்பு அதிகமாக உள்ள மிருக உடல்கள் (அசைவ உணவுகள் )

இவைகளை நாம் தின்று (உப்பினால் ) வரும் நோய்களை குணப்படுத்த

உப்பை வைத்து தயாரித்த மருந்துகள் தருகிறது இன்றைய மருத்துவம்(alaopathy )

இனிப்பை வைத்து வைத்யம் செய்வது homeopathi .

உப்பும் ,தேனும் தன்னுடன் எது சேர்த்தாலும் கெடுக்காது.

நல்ல தேனை ஏறும்பு தீண்டாது ,,உப்பையும் ஏறும்பு தீண்டாது

கருவாடு ,உறுகாய்,போண்டரைவைகள் உதாரணம் ...

நம் சமயத்தில் தேவ அசுர சண்டை என்பது தேனுக்கும் உப்பிற்கும் நடக்கும் சண்டையே .

தேவ அமிர்தம் என்பது தேன் ...

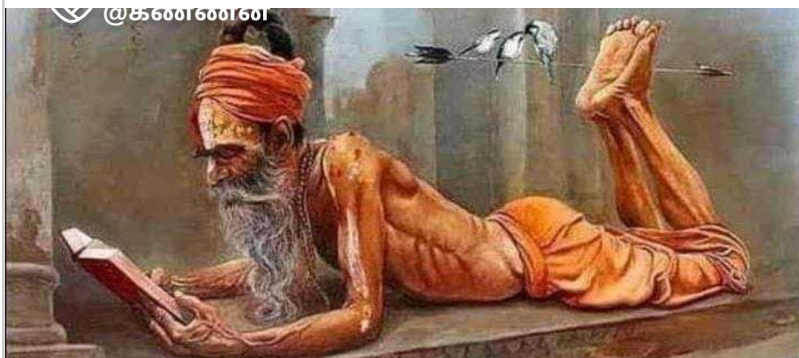
தேன் தேவகுணம் உடையது

உப்பு அசுரகுணம் உடையது

தேன் தேவர்கள் போல் நம்மை இறைவனிடத்தில் அழைத்து செல்லும்

உப்பு பூலோகத்தில் இருக்க வைக்கும் ..

இவைகள் உடல் சார்ந்த விவரம் ....



ஆகவே உப்பை குறைத்தும் ,

தேனை சேர்த்தும் சாப்பிட்டு பழகி

கொள்வோம் ...





## Points to Ponder

### \* The Funniest Quotes about Ageing \*

"The older I get, the more clearly I remember things that never happened.

\*- Mark Twain\*

"First you forget names, then you forget faces, then you forget to pull your zipper up, then you forget to pull your zipper down."

\*- Leo Rosenberg\*

"At fifty, everyone has the face he deserves."

\*- George Orwell\*

"At age 20, we worry about what others think of us... at age 40, we don't care what they think of us... at age 60, we discover they haven't been thinking of us at all."

\*- Ann Lander\*

"As you get older three things happen. The first is your memory goes, and I can't remember the other two."

\*- Sir Norman Wisdom\*

"It's paradoxical that the idea of living a long life appeals to everyone, but the idea of getting old doesn't appeal to anyone."

\*- Andy Rooney\*

"Birthdays are good for you. Statistics show that the people who have the most live the longest."

\*- Larry Lorenzon\*

"I'm 59 and people call me middle-aged. How many 118-year-old men do you know?"

\*- Barry Cryer\*

"Old age isn't so bad when you consider the alternative." \*- Maurice Chevalier\*

"Grandchildren don't make a man feel old, it's the knowledge that he's married to a grandmother that does." \*- J. Norman Collie\*

"When your friends begin to flatter you on how young you look, it's a sure sign you're getting old."

\*- Mark Twain\*

"Time may be a great healer, but it's a lousy beautician."

\*- Anonymous\*

### SLEEP



#### Myth

V/S

#### Fact

Your body gets used to getting less sleep.

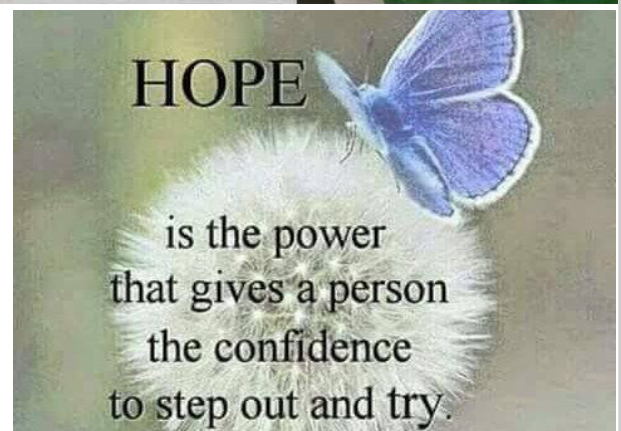
It leads to daytime drowsiness, affecting your memory, focus and performance.

Your brain shuts down during sleep.

Your brain remains active during sleep and affects your thinking, memory and emotions.

5 hours sleep is enough for adults.

6-8 hours of quality sleep is critical, for all age groups, for your body to stay healthy.



## தமிழில் உடன்பிறப்பு சொற்கள்..

\*" தமிழில் உடன்பிறப்பு சொற்கள் "

அண்ணன் தம்பியை உடன் பிறப்பு என்று சொல்லுகிறோம். அதுபோல தமிழில் சில உடன்பிறப்பு சொற்கள்.

### 1. அந்தி, சந்தி:

அந்தி : மாலை நேரத்திற்கும் , இரவுக்கும் இடையில் உள்ள பொழுது.

சந்தி: இரவு நேரத்திற்கும் , காலை நேரத்திற்கும் இடையில் உள்ள விடியல் பொழுது.

### 2. அக்குவேர் - ஆணிவேர் :

அக்குவேர் : செடியின் கீழ் உள்ள மெல்லியவேர்.

ஆணி வேர்: செடியின் கீழ் ஆழமாக செல்லும் வேர்.

### 3. அரை - குறை:

அரை : ஒரு பொருளின் சரி பாதி அளவில் உள்ளது.

குறை : அந்த சரிபாதி அளவில் குறைவாக உள்ளது.

### 4. அக்கம் - பக்கம்:

அக்கம்: தன் வீடும், தான் இருக்கும் இடமும்.

பக்கம்: பக்கத்தில் உளவீடும், பக்கத்தில் உள்ள இடமும்.

### 5. அலுப்பு - சலிப்பு :

அலுப்பு: உடலில் உண்டாகும் வலி.

சலிப்பு: உள்ளத்தில் ஏற்படும் வெறுப்பும், சோர்வும்.

### 6. ஆட்டம் - பாட்டம் :

ஆட்டம் : தாளத்திற்கு தகுந்தவாறு ஆடுவது.

பாட்டம் : ஆட்டத்திற்குப் பொருத்தமில்லாமல் பாடுவது.

### 7. இசகு - பிசகு:

இசகு: தம் இயல்பு தெரிந்து ஏமாற்றுபவர்களிடம் ஏமாறுதல்.

பிசகு: தம்முடைய அறியாமையால் ஏமாறுதல்.

### 8. இடக்கு - முடக்கு:

இடக்கு : கேளியாக நகைத்து, இகழ்ந்து பேசுதல்.

முடக்கு : கடுமையாக எதிர்த்து, தடுத்துப் பேசுதல்.

### 9. ஏட்டிக்குப் - போட்டி :

ஏட்டி: விரும்பும் பொருள் அல்லது செய்வது. ( ஏடம் : விருப்பம்) போட்டி : விரும்பும் பொருள், செயலுக்கு எதிராக வருவது.

### 10. ஒட்டு - உறவு :

ஒட்டு : இரத்த சம்பந்தம் உடையவர்கள்.

உறவு : கொடுக்கல் சம்பந்தமான வகையில், நெருக்கமானவர்கள்.

### 11. கடை - கண்ணி :

கடை: தனித் தனியாக உள்ள வியாபார நிலையம்.

கண்ணி : தொடர்ச்சியாக அமைந்த கடைகள் , கடை வீதிகள்.





## தமிழில் உடன்பிறப்பு சொற்கள்...contd

12. கார - சாரம் :

காரம் : உறைப்பு சுவையுள்ளது.

சாரம்: காரம் சார்ந்த சுவையுள்ளது.

13. காடு - கரை :

காடு : மேட்டு நிலம் (முல்லை).

கரை : வயல் நிலம் .( மருதம், நன் செய் , புன்செய்).

14.காவும் - கழனியும்:

கா : சோலை.

கழனி: வயல். (மருதம் ).

15. கிண்டலும் - கேலியும்:

கிண்டல் : ஒருவன் மறைத்த செய்தியை அவன் வாயில் இருந்து வாங்குவது.

கேலி : எள்ளி நகைப்பது.

16. குண்டக்க - மண்டக்க :

குண்டக்க : இடுப்புப்பகுதி,

மண்டக்க: தலைப் பகுதி,

சிறுவர்கள் கால் பக்கம், தலைப்பக்கம் எது எனத் தெரியாமல் தூக்குவது,

வீட்டில் அந்தந்தப் பொருள் அங்கங்கே இருக்க வேண்டிய இடத்தில் இல்லாமல் இருப்பது.

17. கூச்சல் - குழப்பம்:

கூச்சல் : துன்பத்தில் சிக்கி வாடுவோர் போடும் சத்தம். (கூ - கூவுதல்)

குழப்பம்: துன்பத்தின் மத்தியில் உண்டாகும் சத்தத்தைக் கேட்டு, வந்தவர்கள் போடும் சத்தம்.

18. சத்திரம் - சாவடி :

சத்திரம் : இலவசமாக சோறு போடும் இடம் ( விடுதி ).

சாவடி: இலவசமாகத் தங்கும் இடம்.

19.தோட்டம் துரவு - தோப்பு துரவு :

தோட்டம் : செடி, கொடி, கீரை பயிரிடப்படும் இடம்.

தோப்பு : கூட்டமாக இருக்கும் மரங்கள்.

துரவு: கிணறு.

20. நகை - நட்டு :

நகை : பெரிய அணிகலன்கள் (அட்டியல், ஒட்டியாணம்.)

நட்டு : சிறிய அணிகலன்கள்.

21. நத்தம் - புறம்போக்கு :

நத்தம் : ஊருக்குப் பொதுவான மந்தை...

புறம்போக்கு : ஆடு, மாடு மேய்வதற்கு அரசு ஒதுக்கிய நிலம்.



## தமிழில் உடன்பிறப்பு சொற்கள்...contd

22. நேரம் - காலம் :

நேரம் : ஒரு செயலைச் செய்வதற்கு நமக்கு வசதியாக அமைத்துக் கொள்வது.

காலம் : ஒரு செயலைச் செய்வதற்கு பஞ்சாங்க அடிப்படையில் செய்ய முற்படும் கால அளவு.

23. நொண்டி - நொடம் :

நொண்டி : காலில் அடிபட்டோ, குறையால் இருப்பவர்.

நொடம் : கை, கால் செயலற்று இருப்பவர்.

24. பற்று - பாசம் :

பற்று : நெருக்கமாக உறவு கொண்டுள்ளவர்கள்.

பாசம் : பிரிவில்லாமல் மரணம் வரை சேர்ந்து இருப்பது...

25. பழக்கம் - வழக்கம் :

பழக்கம் : ஒருவர் ஒரே செயலைப் பல காலமாகச் செய்வது.

வழக்கம் : பலர் ஒரு செயலைப் பலகாலம் (மரபுவழியாக ) கடைப்பிடித்துச் செய்வது.

26. பட்டி - தொட்டி :

பட்டி : கால்நடைகள் (ஆடுகள்) வளர்க்கும் இடம் (ஊர்).

தொட்டி : மாடுகள் அதிமாக வளர்க்கும் இடம்.

27. பேரும் - புகழும் :

பேர் : வாழ்ந்து கொண்டிருக்கும் காலத்தில் உண்டாகும் சிறப்பு பெருமை.

புகழ் : வாழ்விற்குப் பிறகும் நிலை பெற்றிருக்கும் பெருமை.

28. பழி - பாவம் :

பழி : நமக்குத் தேவையில்லாத , பொருத்தமில்லாத செயலைச் செய்தால் இக்காலத்தில் உண்டாகும் அபச் சொல்.

பாவம் : தீயவை செய்து மறுபிறப்பில் நாம் அனுபவிக்கும் நிகழ்ச்சி.

29. பங்கு - பாகம் :

பங்கு : கையிருப்பு. பணம், நகை, பாத்திரம்.( அசையும் சொத்து).

பாகம் : வீடு, நிலம். அசையாச் சொத்து.

30. பிள்ளை - குட்டி :

பிள்ளை : பெதுவாக ஆண் குழந்தையைக் குறிக்கும்.

குட்டி : பெண் குழந்தையைக் குறிக்கும்.

31. வாட்டம் - சாட்டம் :

வாட்டம் : வளமான தோற்றம், வாளிப்பான உடல்.

சாட்டம் : வளமுள்ள தோற்றம், தோற்றப்பொலிவு.





## New Registered members of MITEA... Joined from 15th May 2022 to 14th June 2022



**Mrs. Sushmitha,**

**D/O of Mr. Anbuselvan  
2012– 2016 : E &I alumnus of MIT  
CEO  
M/S Eco Charm Pvt Ltd., Chennai  
Mob: +91 7299017119  
Life Member of MITEA : wef 24.05. 2022**



**Mr. Anbuselvan**

**T No : 35402  
Founder & MD - Indsat Corpn  
Chennai  
Mob: +91 98412 77119  
Life Member of MITEA : wef 24.05. 2022**



**Mr. Muthu Ganapathy  
Subramanian  
T No: 19512**

**Founder & MD  
Radiare Software Solutions Pvt Ltd., Chennai  
Life Member of MITEA : wef 26.05.2022**

**MIT Entrepreneurs Association  
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- Network with more than 150 MIT Alumni Entrepreneurs,
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**Membership Fees:**

Regular Member	- Rs. 5000/-
Life Member	- Rs. 25,000/-
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Pay membership Fees via  
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Name: MIT Entrepreneurs Association  
Bank: Axis Bank, Anna Salai, Chennai  
Ac Number: 921010031516818  
IFSC Code : UTIB0000168

Please visit our website at [www.mitea.in](http://www.mitea.in) for more details





## Management related...

### Creative Writing Contest for the Readers.

**Topic:** “Lack of outdoor games and activities in schools and colleges are curtailing the creativity and leadership skills of the children...” give your comments for and against.

The Best article will be published in Volume 02 - 7th Publish ( 14th July 2022 ), of the E Magazine. Their company's one page advertisement will be published free in the issue.

The article has to be sent to :  
[mitvirutcham@gmail.com](mailto:mitvirutcham@gmail.com)



#### Dutch startup unveils ₹2 crore solar car that can run for months without charging

Dutch startup Lightyear has unveiled its first solar-powered electric car, which it claims can be driven for up to seven months without charging. Dubbed 'Lightyear 0', the car features 53.8 sq ft of curved solar panels across its hood and roof and is priced at €250,000 (over ₹2 crore). The startup claims it is the world's first production-ready solar car.

<https://www.bbc.com/news/technology-57187110>

Now Startup companies can sell their offerings upto 50 lakhs without any tender directly to relevant Government of TamilNadu departments and StartupTN (TANSIM) will facilitate the interaction.

We are planning for series of Startup 2 Government (S2G) events focused on one specific department in one event. The first in the series will be for Social Defence ( the department that takes care of deprived children) and the same will be conducted at SIDCO building, Guindy. Thanks to all the media for spreading the good news.

For further details and registration:

[https://lnkd.in/dQES2r\\_9](https://lnkd.in/dQES2r_9)

Last Date to Submit Your Solutions: June 12th, 2022.



THE HINDU

THE HINDU

Tamil Nadu Startup and Innovation Mission rolls out 'S2G Buy Day'

Finally! We can get out, meet our friends and socialize!



A pretty lady in restaurant just asked me “Are you single?”



I happily replied “Yes” ... and she took away the Extra chair in front of me





## Unforgettable moments ...

**\* MITEA members Mr. K. Saravanan, Preipolar Engineering Pvt Ltd., Chennai, Mr. S. Saravanan, Purple Pond Investment solutions Pvt Ltd., and Mr. Edhayachandran, Crowntech Surface Treatment, attended TiE Chennai “ Personal Transformation Summit” on 14th May 2022 at Chennai.**



**Dr. K. Elamvazhuthi, Founder & Secretary MITEA addressing the PG students & PhD Research Scholars on 7th June, 2022 @ Prof. KVN Seminar Hall, MIT Campus**



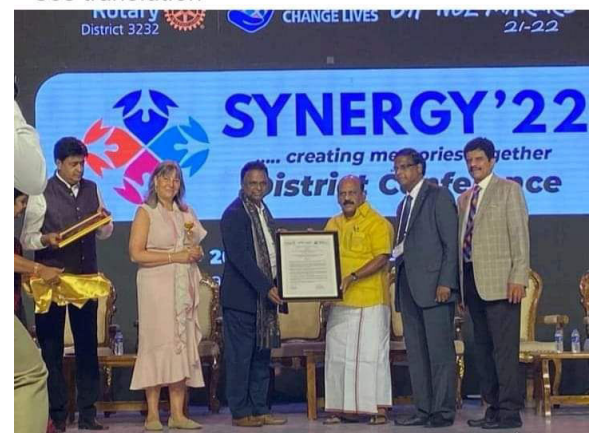
**Velusamy Ramasamy**

21m · 🧑

Thank you Rotary International District -Chennai for recognising 25 yrs of contribution in Auto Industry. Thank you Honourable Minister Mr.Anbarasan , MSME and Rural Industries , TN for giving away the award.

Thank You Sridhar , CEO , Magal Tech and Niki Scott.

See translation







# Unforgettable moments ...contd.

**\* Prof. Dr. R. Velraj, VC of Anna University as the Chief Guest for the Annual Sports Day celebration in MIT campus on 30th May 2022. Prof. Dr. J. Prakash, Dean MIT Campus is also seen. After a gap of two years, all the out door events were conducted to bring out the physical talents of MIT students.**



Chennai, Tamil Nadu, India



**TN drones to hog the limelight at 1st drone fest in Delhi**

EXPRESS NEWS SERVICE @ Chennai

DRONES from Tamil Nadu will be showcased at the Bharat Drone Mahotsav 2022, which will be inaugurated by Prime Minister Narendra Modi on Pragati Maidan in New Delhi on Friday. The first-of-its-kind event is being organised by the Centre to boost the country's drone industry.

Two drones developed by Anna University and the prototype of a drone taxi built by e-Plane, an IIT-M incubated company, will be among the star

One of the drones is a pesticide sprayer and the other is a tethered drone built for use in VIP security. The latter, a hexacopter, will be showcased for the first time before the prime minister. It has a cable facilitating power and data transfer and a stabilised zoom camera. It can fly for 24 hours continuously and is best suited for VIP security surveillance, said Kumar. "The event is a congregation of all stakeholders from the drone industry and we will definitely get orders in bulk for our products," he added.



On the eve of #WorldTelecommunicationsDay, Indian telecom equipment manufacturers showcased cutting edge indigenous 4G & 5G products and solutions.

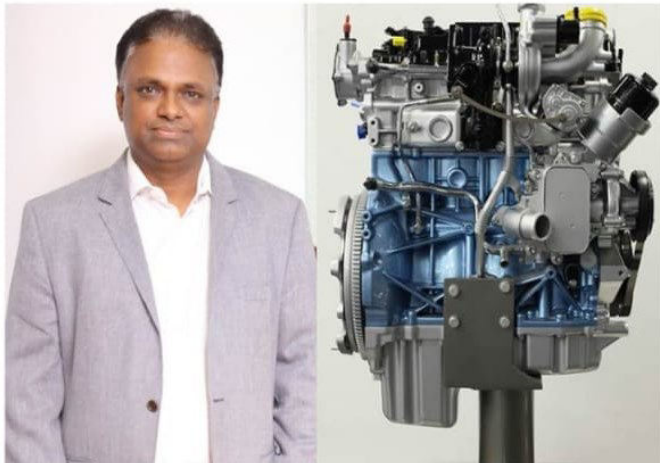
**Congratulations to Mr. Murugavel, TNO: 48414, Founder CEO, Cosgrid Networks - showcased their 4G & 5G products to the ministry of Telecommunications.**





## Lets know more about our alumnus Mr. Veluchamy, T No: 44230

**Chief of Global Product Development  
(Automotive), Mahindra & Mahindra.**



R Velusamy, Chief of Global Product Development (Automotive). M&M; the all-new 190hp 2.0-litre direct-injection turbo-petrol engine revealed at Auto Expo 2020.

**A true-blue engineer who could not fulfil his dream of completing his PhD in one of the engineering domains from the US, R Velusamy has come a long way from the early days of being part of Mahindra & Mahindra's hugely successful Scorpio project.**

"I had a dream of doing my PhD after my two-year stint as a GET (graduate engineer trainee) at Mahindra & Mahindra (M&M), but I got inducted into the Scorpio project and couldn't get out for the next five years!" remarked Velusamy. He has rightfully

earned the role of being the Chief of Global Product Development (Automotive) at M&M, having scores of breakthrough models and engines including Mahindra's highly revered 'mHawk' diesel family under his belt.

In an online freewheeling conversation with *Renuka Kirpalani*, executive editor, *Video, Autocar India*, Velusamy shared his knowledge and guidance for students and young engineering undergraduates wanting to make their career in the automotive industry.

Taking cognisance of the fast-paced world and the rate of change of technology, Velusamy said, "Not just change but 'accelerating change' is a constant in today's world, driving work for people in R&D."

He added that in the present day, innovation is all about the interplay of various engineering disciplines and not just one form of education. "We are moving from intra-disciplinary innovation to inter-disciplinary innovation."

"While the concepts of physics, material science and mathematics will continue to form the core of one's knowledge, some



## Lets know more about our alumnus Mr. Veluchamy, T No: 44230 ....contd

additional qualifications also need to be undertaken in the present scenario," said Velusamy .

"Hybrid and electric vehicle technology is also an amalgamation of mechanical, digital and electronics and these are the new forms of understanding that one must acquire."

"Today, there is a blur and fusion in various engineering disciplines. Also, one needs to follow their passion and work in teams to produce innovation," he said.

However, Velusamy added that more than the technical skills, it is cognitive and social skills that are important in an engineering environment and are the prerequisites that are stressed upon for graduates applying to work at M&M.

"Integrity, honesty and the ability to work within teams are some of the qualities we look for in a candidate seeking a role at M&M. One's social skills are more useful in motivating a team and to deliver products. More than IQ, it is the EQ that is much more powerful in a team play," pointed out Velusamy.

He guided students by suggesting them to seek a role in R&D if they are more passionate about applying fundamentals of science to solve customer problems and delivering required products, while those having a passion for marketing and sales, should plan on doing an MBA after engineering and choose a leadership role and focus on that area.

"Inspired employees deliver 2.25 times than the satisfied employees."

"One needs to have excellent relationships. If a person enjoys excellent relationships among teams, then the final product can be improved. People, cognitive and imaginative skills will be the enablers to one's success in the industry," he said.

### **EVs the way forward**

With the world of automotive bringing in a whole new element of applied electronics into the field mostly considered a mechanical engineer's domain, Velusamy said that, "Machine learning and deep learning will be the differentiating technologies of the future, while the core of mechanical and material science will always form the foundation."





## Lets know more about our alumnus Mr. Veluchamy, T No: 44230

....contd

“Rapidly increasing cognitive and logical power of chips will redefine automobiles and turn them into intelligent devices, those which will be able to talk to their users in real time,” he added.

However, with the coronavirus pandemic, Velusamy believes that the speed of arrivals of EVs would be dampened by a bit. “EVs will certainly come, but how fast, is still questionable,” he said.

While vehicles designed to function as pure EVs will be first adopted in the fleet for their better utilisation and RoI, platforms supporting multiple powertrains including EVs and ICE will be used in cases where up to 85 percent of the vehicle’s volumes are expected to still come from ICE.

“The born-electric platforms will first arrive in the fleet. Having said that, we would only go ahead and develop a modular platform supporting multiple powertrains when the bulk of the ICE volumes can offset the development cost of an electric module powering it,” he said.

### **Covid-driven localisation**

With the coronavirus crisis giving a major setback to the automotive industry which works in a highly intertwined fashion of multi-geography supply chain, Velusamy said that going forward the localisation efforts will double or triple.

“We have seen the effects of the shutdown leading in to cascading impacts on supply chains and development of various new programmes. It is a chain of events that starts with one place and end at another. Companies will try and restrict their critical activities that determine the flow of work to the local geography for where the product is meant for,” said M&M’s Chief of Global Product Development.

As regards India rising up to seize the opportunity to be able to develop new technologies and be self-reliant in domains such as vehicle electronics, Velusamy said, “The tipping point in India has arrived in terms of connected car technology with many start-ups in Bangalore and Pune already having developed a lot of these modern-day systems. IIT Delhi, for instance, has developed new connected car systems.”



## Lets know more about our alumnus Mr. Veluchamy, T No: 44230 ...Contd

"We have talent who are willing to be entrepreneurs. We now just need to pick up the scale."

### **BS VI an accomplished challenge**

With the Indian automotive industry being tasked to do the unthinkable, the engineer fraternity is the one to be lauded for their diligent efforts over the last three years. On April 1 this year, India switched over to cleaner BS VI emission norms in betterment of the environment, and powertrain engineers, especially, had a tough task at hand to leapfrog an entire generation from BS IV in a record three-year timeframe.

While many OEMs including India's largest carmaker Maruti Suzuki have so far pulled out from the diesel engine segment as the cost to upgrade diesels to BS VI is understood to be a costly affair, M&M, on the other hand, which has a fairly elaborative diesel engine portfolio, has stuck to offer what its customers demand.

"We have migrated to BS VI which is a very clean technology with RDE being regulated by the government. People stick to diesel to conserve the energy and get more fuel efficiency. Diesel engines are already 25

percent more efficient than gasoline. If we are able to provide affordable diesel technology to customers, we will continue to do that," said Velusamy.

"It was the biggest challenge. The powertrain team at M&M didn't have weekends or family events for the last two years. We had to shift 11 powertrains to BS VI and the government inspired us to move into the direction of sustainability. The Indian automotive industry responded to the government's call and we really did make it happen."

Now, as the entire world struggles to find semblance to resume life in a post-Covid scenario, engineering, product development and manufacturing inside automobile companies is going to see a massive change as well.

"Post-Covid is going to change everything and it will be like a shift from silicon-based computing to quantum-based computing. It will be an unparalleled change," signed off Velusamy.





## Its all in the Game...



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-  SolarCity 2006
-  Hyperloop 2013
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-  Neuralink 2016
-  The Boring Company 2016
-  Twitter 2022



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**DON'T UNDERSTAND**  
it yourself.

Albert Einstein

Theoretical physicist, 1879 - 1955





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