



# TPGIT NEWS



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## FROM PRINCIPAL'S DESK

Prof. Dr. M. ARUL ARASU, M.E., Ph.D.,

It is cheering that the editorial board endeavors to bring out a newsletter to highlight the activities took place in 2013 - 14. These activities centres around the mission of technical education of Govt. of Tamilnadu, imparting technical knowledge to the students and moulding their character to be a responsible citizen who can quench the thirst of the need-based society and make the country renowned scientifically and technologically.



## COLLEGE PROGRAMMES



**22<sup>nd</sup> GRADUATION DAY- 2<sup>nd</sup> JUNE, 2013**

Chief Guest : **Dr.Sivathanu Pillai**, CEO, DRDO  
Degree conferred to 300 students



**OPENING CEREMONY OF SBI ATM MACHINE  
On 3<sup>rd</sup> December 2013**

Chief Guest : **Dr. R. Nanthagopal**, IAS,  
District Collector, Vellore.



**Pongal Day Celebration on 11.01.2013**

Chief Guest : **Kavingar Erusan**



**Issue of TANCET Hall Ticket on 06.02.2013**





### Distribution of MHRD Sponsored Aakash Tablet to PG Students

### Indian Society for Technical Education (ISTE) student's chapter Inauguration on 17<sup>th</sup> September 2013

Chief Guest : Dr. **R.K. Elangovan**, Director (Safety)  
Regional Labour Institute, Ministry of Labour  
Govt. of India



### Annual Sports Day Function on 10<sup>th</sup> April 2013

Chief Guest : Dr. **R.Thirumalaisamy**  
Former vice-chancellor  
Tamilnadu State Sports and Physical  
Education University, Chennai.

### MEDALS RECEIVED

- ♦ Women team won the bronze medal in Anna University 6<sup>th</sup> Zone Inter college Table Tennis Tournament on 16<sup>th</sup> September 2013
- ♦ Men team won the Silver medal in Anna University 6<sup>th</sup> Zone Inter college Kabbadi Tournament organized on 4<sup>th</sup> October 2013
- ♦ Mr. M.Y. Mohamed Rasheed Final Year Mechanical Engineering Won the Gold medal in 50m back stroke and 100m free style swimming competition for chief minister trophy conducted on 25<sup>th</sup> October 2013.

### PLACEMENT

Our college students were placed in the following companies during the academic year 2013 - 2014

- WIPRO Pvt. Ltd.
- CTS Pvt. Ltd.
- Accenture Pvt. Ltd.
- VVDN Technologies Pvt. Ltd.
- ZOHO Corporation Pvt. Ltd.
- CSC Pvt. Ltd.



## DEPARTMENT OF CIVIL ENGINEERING



### Association Inaugural Function on 10th October 2013

Chief Guest : Dr. **ARUL JAYACHANDRAN**  
Professor  
Department of Civil Engineering IIT Madras.

### Guest Lecture on FAST TRACK CONSTRUCTION on 10th October 2013

Presented by : Dr. **ARUL JAYACHANDRAN**  
Professor of Civil Engineering  
IIT Madras.



### Software Training Programme on STAAD Pro. (24.07.2013 to 04.08.2013)

Chief Guest : Er. **P. Kamaraj**, M.E.,  
District Environmental Engineer,  
Vellore.



### GATE 2013 Coaching Class

Organised by :  
Department of Civil Engineering TPGIT,  
Vellore.



### SURVEY CAMP

Conducted at Katupadi near Vellore  
Coordinating Staff :  
Thiru. **S. Murugan** and  
Thiru. **R. Prakash**  
No. of Students : Participated 65





## Students Achievements and University Rank Holders

- D. Rukmangadan and S. Manoj Final Year B.E Civil Engineering students have secured All India Ranks 28th and 98th respectively in the GATE 2013 Examination.
- D. Jothi Arun and S. Nandhini got second prize in the technical quiz competition (Zonal Level) conducted by Ultratech Cement.
- B. Bharanidharan and J. Gowtham Rajan got 1st and 3rd prize in Sri Ramanujam Maths Competition (Zonal Level) conducted by ISTE Delhi.

S.No.	Name of the Students	Batch	Anna University Rank
1	Deivanai.M	2009-13	13
2	Jothiarun.D	2009-13	22
3	Kayalvizhi.K.V	2009-13	32
4	Nandhini.S	2009-13	34
5	Manoj.S	2009-13	40
6	Siva Sankari.P	2009-13	46

## Improvements of Laboratories (MODROBS)

- ❖ Modernization and removal of obsolescence in survey laboratory by Prof. G. Panneerselvam. 6.3 lakhs is being sanctioned for this work.
- ❖ Modernization of Strength of Materials Laboratory by Dr. J. Sreerambabu 14 lakhs is being sanctioned for this project.

## Ph. D., Pursuers

- ❖ Prof. G. Panneerselvam is doing Ph.D., under the guidance of Dr. S. Kandasamy, Professor, GCT
- ❖ Mr. K. Candassamy of Civil Engineering Department is pursuing Ph. D. under the guidance of Dr. J. Sreerambabu, Associate professor, TPGIT
- ❖ Mr. R. Prakash of Civil Engineering Department is pursuing Ph. D. under the guidance of Dr. R. Thenmozhi, Associate professor, GCT

## Ph.D Guiding

Dr. J. Sreerambabu of Civil Engineering Department is guiding the following candidates

1. Mr. M.K. Padmanaban, CPT, Chennai
2. Mr. K. Candassamy, TPGIT, Vellore
3. Mr. M. Kumaran, Jei Mathaji College of Engineering, Kanchipuram

## Revenue Generation

Rs.13.67 lakhs of revenue of collected through the consultancy and laboratory testing for the period of 1st January 2013 to 30th October 2013

## DEPARTMENT OF MECHANICAL ENGINEERING

### Recent Advances in Design and Manufacturing Systems (RADAMS '13) - National Conference on 18.04.2013



Chief Guest : **Dr. G. Nagarajan**  
Anna University, Chennai.

### Departmental Events

- ✘ Mechanical Engineering Association Inaugural Function was conducted on 9<sup>th</sup> September 2013. The event was presided over Dr. M. Arularasu, Principal and Inaugurated by Dr. K. Gopalakrishnan, M.E., F.I.E., Ph.D., Chairman, Institute of Engineers(India), Karnataka.
- ✘ One day national level technical symposium “MECHKRIYA '13” was conducted on 15-04-2013.
- ✘ SPEAK EASY CLASS was conducted for enhancing the communication skills for the passed out Final Year B.E. Mechanical Engineering students .
- ✘ An awareness programme on “Engineers without Borders” was conducted in September 2013. Special lectures were delivered by Th. V. Dillibabu, Scientist, DRDO, Bangalore, Th. D. Gokul, Scientist, ISRO, Sriharikota and Dr. S. Pugazhendhi, Anna University, Chennai.

### Awards Received

Awarded to  
**Tmt. M. KANTHASHOBA**, Assistant Professor  
KANNADSAN AWARD



Motivated more than 100 NSS Students to participate in the State Level Essay Writing,  
Poetry and Drawing Competition

### University Rank Holders

S.No.	Name of the Students	Batch	Anna University Rank
1	UDAYA MOORTHY.K (PG Student)	2011-13	1
2	LINGARAJ.N (UG Student)	2009-13	40



## Improvements of Laboratories (MODROBS)

- ✧ Modernization and removal of obsolescence, CIM Software by Prof.S.Nadarajan. 4.5 lakhs is being sanctioned for this work.
- ✧ Modernization and removal of obsolescence in Multi - Cylinder Petrol Engine Test Rig by Prof.S.Rajkumar 7 lakhs is being sanctioned for this project

### Ph. D Guiding

- ✧ Dr. M. Arularasu, Principal : 10 Scholars

### Ph.D Pursuers

- ⌚ Mr.S.Nadarajan Associate Professor is pursuing Ph. D. under the guidance Dr.T.Alwarsamy, Liaison Officer, Directorate of Technical Education, Chennai 25 in the area of Engineering Design.
- ⌚ Mr.A.Muralidhar Associate Professor of Mechanical Engineering department is pursuing Ph. D. under the guidance Dr.T.Alwarsamy, Liaison Officer, Directorate of Technical Education, Chennai 25 in the area of Industrial Engineering.
- ⌚ Mr.P.Praveen Raj Assistant Professor of Mechanical Engineering department is pursuing Ph. D. under the guidance Dr.A.Elayaperumal, Associate Professor, CEG, Guindy, Chennai-25 in the area of Machining of Composites.
- ⌚ Mrs.K.Anbukarasi Assistant Professor of Mechanical Engineering department is pursuing Ph. D. under the guidance Dr.S.Kalaiselvam in the area of Natural Fiber Reinforced PNC.
- ⌚ Mrs.T.Suja Assistant Professor of Mechanical Engineering department is pursuing Ph.D. under the guidance Dr.G.Nagarajan in the area of Homogeneous Charge combustion Ignition Engine.
- ⌚ Mrs. K.Sakunthala Assistant Professor of Mechanical Engineering department is pursuing Ph. D. under the guidance Dr.S.Iniyan in the area of Energy forecasting and Optimization for Tamil Nadu State.

### PUBLICATIONS

- ✍ Prof A.Muralidhar Associate Professor published paper in the field of "MULTI-OBJECTIVE OPTIMIZATION OF PARALLEL MACHINE SCHEDULING USING NEURAL NETWORK" in National Conference of "International Journal of Latest Trends in Engineering and Technology (IJLTET) Volume 2, Issue 2, March 2013"

## Department of ECE

### EPULZ-2K13 Symposium on 27th Feb 2013



Chief Guest :

**Dr. Thamaraiselvi**, Dean-MIT, Chennai  
and

**Ms. R. Wahidennisa**, Alumni of TPGIT,  
Manager of Jasmine Infotech, Chennai.

### ISTE Workshop on ANALOG ELECTRONICS in collaboration with IIT Kharagpur

Remote Centre Coordinator : **Dr. J. Sreerambabu**  
Workshop Coordinator : **Thiru. B. SenthilMurugan**





## INTERPERSONAL SKILLS TRAINING Under Govt. of Tamilnadu



Chief Guest : **Tmt. Karthiyayeni**  
Mayor, Vellore Corporation.

## INDUSTRIAL VISIT to ISRO Trivandrum



Coordinating Staff :  
Prof **J.Vijaya** & Dr. **Rahila Bilal**  
No. of Students participated : 110

### Departmental Events

- ✂ Department of ECE conducted a one day National Conference "NCAEC' 13" on 16th April 2013. Dr. T.K. Shanthy, Associate Professor ECE coordinated the event under the head of Prof R.Satyabama, HOD ECE. More than 70 students participated from various universities presented their paper.
- ✂ ECE Association was inaugurated by the Chief Guest Mr. Satyamoorthy, General Manager BHEL, Dr. M. ARULARASU, and Principal on 18th October 2013.

### University Rank Holders

S.No.	Name of the Students	Batch	Anna University Rank
1	Ms.Sumitha	2012 - 13(PG)	8
2	Ms.Vaishanavi T.N	2012 - 13(PG)	27
3	Ms.Gayathri S	2012 - 13(PG)	34
4	Ms. Anisha T Alex	2012 - 13(PG)	40
5	Mr. N. Hemanth Kumar	2012 - 13(UG)	26
6	Ms.S.Vishnu Priya	2012 - 13(UG)	50

### PUBLICATIONS

- ✂ Prof R. Satyabama, HOD ECE published 3 papers in the field of Image processing in National Conferences.
- ✂ Dr. T.K. Shanthy, Associate Professor published 3 papers in the area of Communication in National Conferences and 2 papers in International journals.
- ✂ Prof J. Vijaya, Associate Professor published 3 papers in the field of Cryptography in National Conferences.
- ✂ Dr. Rahila Bilal, Associate Professor published 3 papers in the area of Network Security, VLSI in National Conferences.
- ✂ Prof K. Beulah Suganthy, Associate Professor published 3 papers in the field of Bio signal processing in National Conferences
- ✂ Dr. S. Letitia, Associate Professor ECE and has published 10 papers in National Conferences and Journal and six students are pursuing Ph.D. under her guidance.



## DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS



### DEPARTMENTAL EVENTS

One day workshop on JAVA Pro was conducted on 08.03.2013. Mr. B. Karthikeyan, Elliot Technologies, Chennai inaugurated and delivered guest Lecture.

One Day workshop on Network Security was inaugurated by Dr. D. Arivudainambi, Associate Professor, Department of Mathematics, Anna University Chennai on 09.04.2012.

## DEPARTMENT OF SCIENCE AND HUMANITIES

### Science Association Inaugural Function on 21.11.2013



Chief Guest : **Dr. S. SUNDAR**  
Professor of Mathematics IIT Madras

### Science Club Function on 28.11.2013



Resource Person :  
**T.K. Sabu**, SEBI, Chennai.

### Technical Symposium PRAGYAN13 on 13<sup>th</sup> April 2013



Chief Guest :  
**Dr. J. Daniel Chellappa**,  
BARC, Mumbai.

### PUBLICATIONS

- ◆ M. Thamilselvan, K. Gopalakrishnan, C. Ramesh, M. Elango "Optical and Magnetic studies on Cu<sub>2</sub>O/PANI Nano composite prepared by chemical polymerization method", Materials Science ISRN Materials Science, Volume 2014, Article ID 567927, 7 pages, <http://dx.doi.org/10.1155/2014/567927>
- ◆ M. Thamilselvan, K. Jeyadheepan, Kyunghae Kim, Junsin Yi, C. Sanjeeviraja "R-F magnetron sputtered cadmium tin oxide (Cd<sub>2</sub>SnO<sub>4</sub>) thin films for transparent passive electrode applications". Journal of Materials Science 02/2013.
- ◆ M. Thamilselvan, K. Gopalakrishnan, "Catalytic-assisted synthesis, characterization and low frequency AC conduction of nanostructured conducting polyaniline", Iranian Polymer Journal., Vol. 22 P.No 43-52, 2013.



- ◆ Crystal structure of methyl 2- [2,4-bis (4-fluorophenyl) -3-azabicyclo[3.3.1] nonan-9-yl idene] hydrazinecarboxylate S. Murugavel A. Kamaraj, R. Rajkumar and K. Krishnasamy *Acta Cryst.* (2014). E70, 145 - 147
- ◆ Crystal structure of methyl 6-methoxy-11-(4-methoxyphenyl) - 16-methyl-14-phenyl-8, 12 - dioxo-14, 15-diazatetracyclo [8.7.0.0<sup>2,7</sup>.0<sup>13,17</sup>] heptadeca-2 (7),3,5,13(17), 15 - pentaene-10 - carboxylate S. Murugavel, V.Vinayagam, M. Bakthadoss and N. Manikandan *Acta Cryst.* (2014). E70, 127-129
- ◆ Crystal structure of (*Z*)-3-(3,4 - Dimethoxybenzyl)-1, 5-benzothiazepin - 4(5*H*) - one S. Murugavel, R.Selvakumar, M. Bakthadoss and S. Vijayakumar *Acta Cryst.* (2013). E69, o708
- ◆ Crystal structure of (6'*R*<sup>\*</sup>,7'*R*<sup>\*</sup>)-7' - (1,3,-Diphenyl-1*H*-pyrazol-4-yl)-1,2,5',6',7',7a',3'',4''-octa hydro 1'*H*,2''*H*-dispiro [acenaphthylene-1,5' - pyrrolo [1,2-*c*] [1,3] thiazole-6',3''- [1] benzopyran] -2,4'' -dione S.Murugavel, J. Murugan, J. Haribabu, B. S. R. Reddy and G. Rajarajan *Acta Cryst.* (2013). E69, o493-o494
- ◆ Crystal structure of (*Z*)-3-(3,4 - Dimethoxybenzylidene)-2, 3-dihydro-1, 5-benzothiazepin-4(5*H*) - one S.Murugavel, M. Bakthadoss, R. Selvakumar and N. Manikandan *Acta Cryst.* (2013). E69, o562-o563
- ◆ Crystal structure of (*Z*)-3 - (2,4-Dichlorobenzyl) -1, 5-benzothiazepin - 4 (5*H*) - one S. Murugavel, N.Manikandan, R. Selvakumar and M. Bakthadoss *Acta Cryst.* (2013). E69, o564
- ◆ Crystal structure of 3-(4-Methoxybenzyl)-1, 5-benzothiazepin-4(5*H*)-one S.Murugavel, R.Selvakumar, M.Bakthadoss, and S. Vijayakumar *Acta Cryst.* (2013). E69, o693

### CITATIONS

- ❖ Dr. M. Thamilselvan's research publications has been cited in the following journals
- ❖ Antibacterial activity of CuO nanoparticles on e.coli synthesized from tridax procumbens leaf extract and surface coating with polyaniline, Digest Journal of Nanomaterials and Biostructures volume 7, issue 2, year 2012, pp. 833 839. Has been cited in the Journal Applied Surface Science, volume 286, issue, year 2013, pp. 149 155.
- ❖ Mixed SnO/TiO included with carbon nanotubes for gas-sensing application J.Physica E: Low-dimensional Systems and Nanostructures volume 41, issue 2, year 2008, pp. 258 263 has been cited in Sensors and Actuators B: Chemical volume 189, issue, year 2013, pp. 251 - 259
- ❖ Structure, optical and DC conduction mechanism of amorphous GaSe thin films Materials Science in Semiconductor Processing, volume 7, issue 1-2, year 2004, pp. 69 75 has been cited in Thin Solid Films volume 542, issue , year 2013, pp. 119 122
- ❖ Effect of substrate temperature on ac conduction properties of amorphous and polycrystalline GaSe thin films, Vol.39,issue 12, 2004, pp.1849-1859 has been cited in Journal of Materials Science & Technology, vol.29, issue 12, 2013, pp.1151-1155.

### CONFERENCES

- Thamilselvan M. Priyadharsini, N. Elango M. "Wet Chemical Grown of Mn doped CdS Nanoparticles : Synthesis and Characterization" International Conference on Nanomaterials for Frontier Applications (ICNFA 2013) and Indo-Norwegian Workshop for Solar Cell Applications 10 12, July 2013, Coimbatore Institute of Technology, Coimbatore, India
- M. Thamilselvan, A. Nizarul Hazeen, V. Ranjith Kumar, S. Vairam, "Synthesis And Characterization of A Cadmium Doped Organo-Metallic Non Linear Optical Crystal" National Conference on Advanced Materials and Applications(NCAMA 2013), National Institute of Technology, Tiruchirapalli,Tamilnadu,04-05 April 2013
- Thamilselvan. M. Elango. M. Priyadharsini. N. Ranjith kumar. V, "Physical and Photocatalytic Studies on Cd<sub>1-x</sub> Ni<sub>x</sub>S Nanoparticles", International Conference on Emerging Technologies Micro to Nano-2013, BITS, Pilani-K. K.Birla Goa Campus, India.(February 23-24) 2013.
- M. Thamilselvan A. Nizarul Hazeen V. Ranjith Kumar, N. Priyadharsini S. Vairam, "Synthesis And Characterization Of A Novel Organo-Metallic Non Linear Optical Crystal" - International? Conference on Biological Inorganic Chemistry (ICBIC-201?3), Periyar University, Salem, Tamilnadu, 20-22 February 2013



**Principal Congratulated  
Dr. S. Murugavel, Asst. Professor for getting Dr. Radhakrishnan Gold Medal Award**



Presented By Global Economic Progress &  
Research Association [GEPRA],  
Tamilnadu for Outstanding Individual Contribution  
In Education & Research On 19.10.2013

**CITATION INDEX H-INDEX 3**

**Ph. D Pursuing**

Mr. J. Rex Martin Sahayaraj, Asso. Professor / Mathematics  
Mr. D. Babu, Asst. Professor / Mathematics  
Mr. V. Veteri Velan, Asst. Professor / Physics

**Ph. D Guiding**

Dr. M. Thamil Selvan, Asso. Professor / Physics : 9 Scholars  
Dr. P. Manivel, Asso. Professor / Chemistry : 2 Scholars  
Dr. S. Murugavel, Asst. Professor / Physics : 11 Scholars

**TPGITians Alumni meet on 16.02.2014**



Honouring the Patron & Principal



An alumnus shares his views and experiences

**TPGITians Alumni meet on 17.02.2013**



Deliberation of the dignitaries



A view of the gathering



# TPGIT TEAM

