

**E.G.S PILAY ENGINEERING COLLEGE (AUTONOMOUS),  
NAGAPATTINAM  
Department of Information Technology**



**Online FDP on Introduction to Deep Learning**

**Date: 27/05/2020 to 28/05/2020**

**Resource Person:**

**Dr.S.Manikandan**  
HOD/IT  
EGSPEC  
Nagapattinam



**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

E.G.S. Pillay Engineering College,  
Thiruthi. Nagore - 611 302,  
Nagapattinam (Dt.) Tamil Nadu.

IT-5

# E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

Accredited by NBA(B.E-CSE,ECE,EEE,Mech,Civil/B.Tech-IT)  
Affiliated to Anna University, Chennai | Approved by AICTE, New Delhi



Accredited by NAAC with Grade 'A'  
An ISO 9001:2015 Certified Institution | Recognised by UGC 2(f) & 12(B)

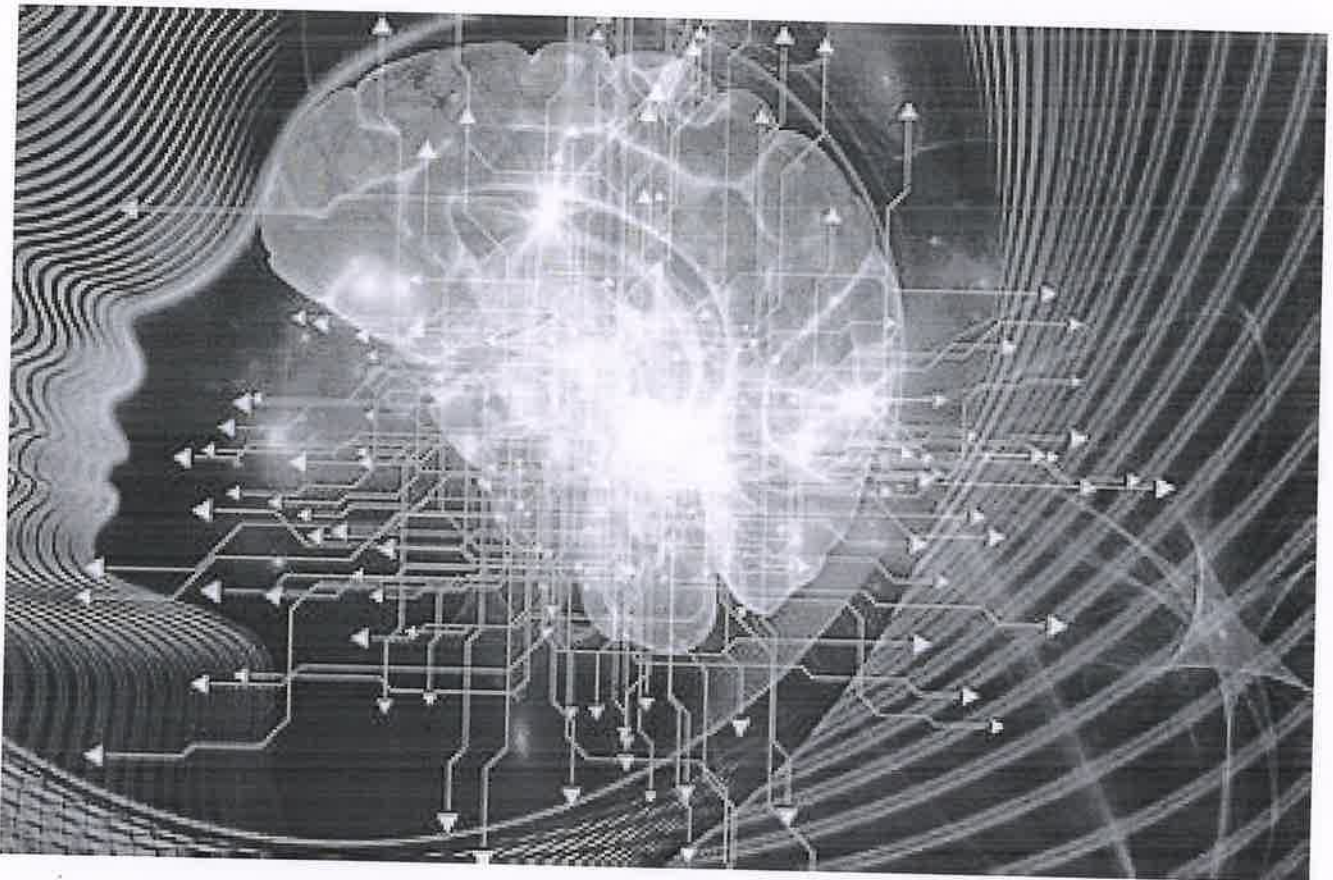
principal@egspec.org | enquires@egspec.org

+91-4365-251112 | +91-4365-251114

## DEPARTMENT OF INFORMATION TECHNOLOGY

### Faculty Development Programme on

### Introduction to Deep Learning



**Date: 27/05/2020 to 28/05/2020** ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. PILLAY ENGINEERING COLLEGE  
NAGAPATTINAM - 611 002.

**Programme Content:**

- Introduction to Deep Learning
- What is Deep Learning?
- Applications of Deep Learning
- How Deep Learning Works?
- Limitations Of Deep Learnings

**Resource Person**

**Dr. S.Manikandan**

**Head of The IT Department**

**EGSPEC**

**Course Coordinator**

**Mr. V.M.Suresh**

**Assistant Professor**

**EGSPEC**

**Mr. R.Anand Babu**

**Assistant Professor**

**EGSPEC**



**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,**

**PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

**E.G.S PILLAY ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**Nagapattinam - 611 002**

**Affiliated to Anna University ,Chennai**

**Approved by AICTE ,New Delhi**

**Accredited by NAAC with GRADE 'A'**

**Introduction To Deep Learningz**

**For (EEE, ECE, MECH, CSE, CSBS, IT, CIVIL, MCA, MBA)**

**On**

**Introduction to Deep Learning**



**28/04/2021- 30/04/2021**



**09:00 am to 4:30 pm**

**Organized by**

**Department of Information Technology**

**(Accredited by NBA)**



## About The Institution

E. G. S. Pillay Engineering College (Autonomous) is one of the pioneering non-grant engineering Colleges in the State. It was established by the G.S. Pillay & Sons Educational & Charitable Trust, Nagapattinam in the year 1995 with the sanction of the Government of Tamil Nadu, approval of the All-India Council for Technical Education, New Delhi and affiliated to Anna University, Chennai. The college has accredited by NAAC with 'A' Grade and all the UG programs are accredited by NBA. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non-grant engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers.

## Vison

Envisioned to transform out institution into a "Global Centre of Academic Excellence"

## Mission

- ✓ To provide world class education to the students and to bring out their inherent talents
- ✓ To establish state-of-the-art facilities and resource required to achieve excellence in teaching-learning and supplementary processes
- ✓ To recruit competent faculty and staff and to provide opportunity to upgrade their knowledge and skills
- ✓ To have regular interaction with the industries in the area of R&D and offer consultancy, training and testing services.
- ✓ To establish centers of excellence in the emerging areas of research
- ✓ To offer continuing education and non-formal vocational education program

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Nagapattinam (Dt) Tamil Nadu,  
Phone: 98421 511 002.

## Department Vision

To produce globally competent information technologist and to inculcate values of leadership and research qualities in them.

## Department Mission

- ✓ To provide a high quality education to the students by our competent faculty members, effective teaching learning process and value-added courses
- ✓ To create a centers of excellence by interacting with industries for better employability and to contribute to the society through consultancy and R& D works
- ✓ To improve the soft skills, interpersonal skills, ethical behavior and communication skill of students by involving team works and technical event.

## Objective of the FDP

The main objective of conducting FDP on Deep Learning to make faculty comfortable with tools and techniques required in handling large amounts of data assets. They will also uncover various deep learning methods in NLP, Neural Networks etc. Several libraries and datasets publicly available will be used to illustrate the application of these algorithms. This will help faculty to developing their skills.

## Course Overview

- This Deep learning is a subfield of machine learning focusing on learning data representations as successive layers of increasingly meaningful representations.
  - The program would help the participants to understand the key concepts of Deep Learning.
- Identify the Deep Learning algorithms which are more appropriate for various types of learning.

From

R.Aanad Babu & V.M.Suresh  
Assistant Professor  
Department of information Technology  
E.G.S. Pillay Engineering College

To

The principal  
E.G.S. Pillay Engineering College  
Nagapattinam

Respected Sir,

Sub: Requesting permission to conduct FDP on Deep learning

We are happy to inform you that we planned to conduct online FDP on Introduction to deep learning on 27/05/2020 & 28/-5/2020. This topic is useful for all the faculty members, kindly give permission to conduct this FDP. In this regard we want to use Computer centre III.

Thank You

Yours Truly,

*V. M. Suresh*  
*R. Aanad Babu*

*Ramabalan*

**ATTESTED**  
*Ramabalan*  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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**E.G.S PILAY ENGINEERING COLLEGE (AUTONOMOUS),  
NAGAPATTINAM**

**Department of Information Technology**

**Online FDP on Introduction to Deep Learning**

**Date: 27/05/2020 & 28/05/2020**

**SCHEDULE**

Date	Session I (9.30am to 11.00 am)	Session II (11.30 am to 1.00pm)		Session III (1.30 pm to 3.00pm)	Session IV (3.30pm to 4.30 pm)
27/05/2020	Introduction to Deep Learning, Neural Networks Basics.	Shallow Neural Networks, Deep Neural Networks	Lunch Break	Convolutional Neural Networks (CNNs): Foundational Concepts, Models, Case Studies, and Applications.	Recurrent Neural Networks (RNNs): Foundational Concepts, Models, Case Studies, and Applications.
28/05/2020	Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization	Deep Learning Applications in Image Processing, Vision, NLP, etc.		Demonstration of Deep Learning concepts	Applications of DL

*Y.M. Jay*  
Coordinator

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NAGAPATTINAM**

**Department of Information Technology**

Online FDP on Introduction to Deep Learning

Date: 27/05/2020 to 28/05/2020

S.No	Name	Dept./Designation	27/05/2020		28/05/2020	
			FN	AN	FN	AN
1.	K Raja	IT/AP	P	P	P	P
2.	R. AnandBabu	IT/AP	P	P	P	P
3.	R.Lavanya	IT/AP	P	P	P	P
4.	V.M.Suresh	IT/AP	P	P	P	P
5.	K Nagalakshmi	IT/AP	P	P	P	P
6.	K.Manikandakumaran	IT/AP	P	A	P	P
7.	S.Praveen Kumar	CSE/AP	P	P	P	P
8.	N.Murali	CSE/ASP	P	P	P	P
9.	A Hema	MCA/AP	P	P	P	P
10.	C.Mallika	MCA/ASP	P	P	P	P
11.	K.Kalaivani	CSE/ASP	P	P	P	P
12.	P.Anandraj	CSE/ASP	P	P	A	P
13.	J NoorulAmeen	CSE/AP	P	P	P	P
14.	P.Vennila	CSE/AP	P	P	P	P
15.	T Ganesan	CSE/Professor	P	P	P	P
16.	G ArulSelvan	CSE/AP	P	P	P	P
17.	<b>ATTESTED</b> 	MCA/Professor	P	P	P	P
	<b>Dr. S. RAMABALAN, M.E., Ph.D.</b> <b>PRINCIPAL</b>	IT/AP	P	P	P	P

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19	P.Ponnaruvi	IT/AP	P	P	P	P
20	S.Selvaganapathy	MCA/AP	P	P	P	P
21	P.Vijayalakshmi	IT/Professor	P	P	P	P
22	A.Rajesh	CSE/AP	P	A	P	P
23	A.Baskar	CSE/AP	P	P	P	P
24	K.Balasubramanian	CSE/ASP	P	P	P	P
25	B.Ranjani	CSE/AP	P	P	P	P
26	S.PalaniMurugan	CSE/AP	P	P	P	P
27	E.Elakiya	CSE/ASP	P	P	P	P
28	M.Nuthal Srinivasan	ECE/AP	P	P	P	P
29	S.Chitra	ECE/AP	P	P	P	P
30	L.Ramachandran	ECE/AP	P	P	P	P
31	S.SenthilKumar	ECE/AP	P	P	A	P
32	K.SenthilKumar	ECE/AP	P	P	P	P
33	S.Jim Hawkinson	ECE/AP	P	A	P	P
34	S.Aadhirai	ECE/AP	P	P	P	P
35	C.mathuvanesan	ECE/AP	P	P	P	P

*I. N. M. Jay*

*S. S. R. R.*  
Co Ordinator's

**ATTESTED**  
*[Signature]*  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi. Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**



# E. G. S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

DEPARTMENT OF INFORMATION TECHNOLOGY  
ONLINE FDP ON INTRODUCTION TO DEEP LEARNING

[lavanya.r@egspec.org](mailto:lavanya.r@egspec.org) Switch account



\* Required

Email \*

Your email

Name & Designation \*

Your answer

Name of the College \*

Your answer

Comments about the following : (Please tick the relevant box e.g. 5 - highest, 1 - lowest)

Your answer

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Thethi. Nagore - 611  
Nagapattinam (Dt) Tamil

Subject content \*

- 1
- 2
- 3
- 4
- 5

Coverage of syllabus \*

- 1
- 2
- 3
- 4
- 5

Course Materials Supplied \*

- 1
- 2
- 3
- 4
- 5

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**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

Tutorials \*

1

2

3

4

5

Level of Excellence and Academic Standards of FDP

Your answer

Ability to Identify, formulate and solve the problems \*

1

2

3

4

5

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*S. Ramabalan*  
**Dr. S. RAMABALAN, M.E., Ph.D.**  
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Ability to use IT techniques and Tools to Deliver content \*

1

2

3

4

5

Developed new skills / improved the ones had already \*

1

2

3

4

5

The example and case studies helped to understand \*

1

2

3

4

5

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Opinion / Suggestion / Effectiveness of the course : \*

Your answer

A copy of your responses will be emailed to the address you provided.

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Timestamp	Email Address	Name & Designation	Comments abo Subject content	Coverage of syl Course	Tutorials	Level of Excel Ability to Ide	Ability to use I
28/05/2020 15:43:28	raju@egspec.org	K.Raju	5	5	5	5 Ver good	5
28/05/2020 15:43:23	anandbabu@egspec.org	R.AnandBabu	5	5	5	5 Good	5
28/05/2020 14:45:42	lavanya.r@egspec.org	R.Lavanya	GOOD	4	4	4 Good	4
28/05/2020 15:42:28	vmuresh@egspec.org	V.M.Suresh	5	5	5	5 Excellent	5
28/05/2020 15:56:04	nagalakshmi@egspec.org	K.Nagalakshmi	5	5	5	5 Excellent	5
28/05/2020 15:43:28	manikandakumaran@egspec.org	K.Manikandakumaran	6&9	5	5	5 Very Good	5
28/05/2020 15:43:23	praveenkumar@egspec.org	S.Praveen Kumar	5	4	3	3 Good	4
28/05/2020 14:45:42	murali@egspec.org	N.Murali	5	5	5	5 excellent	5
28/05/2020 15:43:28	hema@egspec.org	A.Hema	5	4	4	3 GOOD	3
28/05/2020 15:43:23	mallica@egspec.org	C.Mallika	5	5	5	5 Good	5
28/05/2020 14:45:42	skalaivani@egspec.org	K.Kalaivani	4	4	4	4 Good	4
28/05/2020 15:42:28	Anandraj@egspec.org	P.Anandraj	5	5	4	4 Good	4
28/05/2020 15:43:28	noorulameen@egspec.org	J.NoorulAmeen	5	2	1	1 Nice	1
28/05/2020 15:43:23	vennila@egspec.org	P.Vennila	5	5	5	5	5
28/05/2020 14:45:42	ganesan@egspec.org	T.Ganesan	All the sessions	5	5	5 Good	5
28/05/2020 15:42:28	arulselvan@egspec.org	G.ArulSelvan	5	5	5	5	5
28/05/2020 15:42:28	vanitha@egspec.org	J.Vanitha	5	5	5	5	5
28/05/2020 15:43:28	gokila@egspec.org	R.G.Gokila	Excellent and v	5	5	5 Good	5
28/05/2020 15:43:23	ponnaruvi@egspec.org	P.Ponnaruvi	5	4	5	4 Very good	4
28/05/2020 14:45:42	selvaganapathy@egspec.org	S.Selvaganapathy	5	5	5	5	5
28/05/2020 15:42:28	vijayalakshmi@egspec.org	P.Vijayalakshmi	5	5	5	5	5
28/05/2020 15:43:28	rajesh@egspec.org	A.Rajesh	5	5	5	5 Good	5
28/05/2020 15:43:23	baskar@egspec.org	A.Baskar	5	4	5	5 Excellent	5
28/05/2020 14:45:42	balasubramanian@egspec.org	K.Balasubramanian	5	5	5	5	5
28/05/2020 15:42:28	ranjani@egspec.org	B.Ranjani	5	5	5	5	5
28/05/2020 14:45:42	palanimurugan@egspec.org	S.Palanimurugan	5	5	5	5 Excellence	5
28/05/2020 15:42:28	elakiya@egspec.org	E.Elakiya	5	5	5	5 Good	5
28/05/2020 15:43:28	nuthalsrinivasan@egspec.org	M.Nuthal Srinivasan	5	5	4	5	5
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28/05/2020 14:45:42	ksenthilkumar@egspec.org	K.Senthilkumar	4	4	4	4 Good	4
28/05/2020 15:42:28	jimhawkinson@egspec.org	S.Jim Hawkinson	Very informativ	5	4	4	4
28/05/2020 15:43:28	aadhira@egspec.org	S.Aadhira	Good	5	3	4 Excellent	4
28/05/2020 15:43:23	madhuvanesan@egspec.org	C.mathuvanesan	5	4	4	4 The FDP was	4

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D4  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

Developed new skill: The exampl Opinion / Suggestion / Effectiveness of the course :

5	5	Very useful session and informative
5	5	Nothing
4	4	Good
5	5	Good
5	5	Very good..
5	5	Good
4	3	Good
5	5	well organized
4	4	NIL
5	5	Nice session
4	4	Informative FDP, Try to conduct more hands on session regarding big data analytics tools.
5	5	Except more fdp
1	1	Very informative
5	5	Nil
5	5	Excellent
5	5	Very effective
5	5	Excellent program...All the sessions are informative
5	5	All are very nice. Thanks for the organizers
5	4	All or very good present
5	5	Information session
5	5	Well organized FDP
5	5	Good
5	5	Overall good
5	5	Great course and experts are good.
5	5	Very good
5	5	Good
5	5	Good ,very useful.
5	5	Very useful
4	4	Good
4	3	Nice
2	2	Please profice a drive line of the FDP resources
4	4	Effective
4	4	very informative
5	5	Session ppts and material could be shared after each session.
4	5	Good

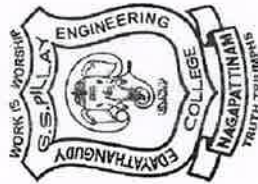
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***This certificate is presented to***

**V M SURESH**

Of his/her active and invaluable participation during the conduct of Two-day Online Faculty Development Program that was organized by the Department of Information Technology on "Introduction to Deep Learning" held on 27 - 28 May 2020.

**HoD /IT EGSPEC**



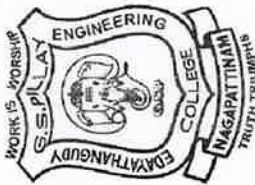
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**G ARUL SELVAN**

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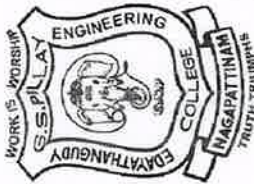
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**K BALASUBRAMANIAN**

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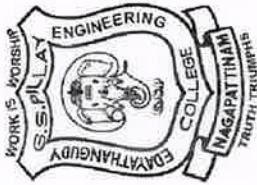


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**K MANIKANDAKUMARAN**

Of his/her active and invaluable participation during the conduct of Two-day Online Faculty Development Program that was organized by the Department of Information Technology on "Introduction to Deep Learning" held on 27 - 28 May 2020.

**HOD /IT EGSPEC**

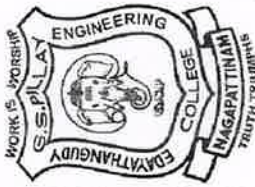


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*This certificate is presented to*

**J VANITHA**

Of his/her active and invaluable participation during the conduct of Two-day Online Faculty Development Program that was organized by the Department of Information Technology on "Introduction to Deep Learning" held on 27 - 28 May 2020.

**HOD /IT EGSPEC**



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**E.G.S PILAY ENGINEERING COLLEGE (AUTONOMOUS),  
NAGAPATTINAM**

**Department of Information Technology**

**A Report of FDP on “Introduction DEEP LEARNING”**

A Two- day Online faculty development programme on “**Introduction to Deep Learning**” was held at E.G.S. Pillay Engineering College, Department of Information Technology, from **27/05/2020 & 28/05/2020**. The FDP aimed to provide opportunities to faculty members to enrich their teaching skills. The programme also intends to develop the knowledge of participants with active and hands on learning in the field of Deep learning.

The FDP was attended by 35 participants.

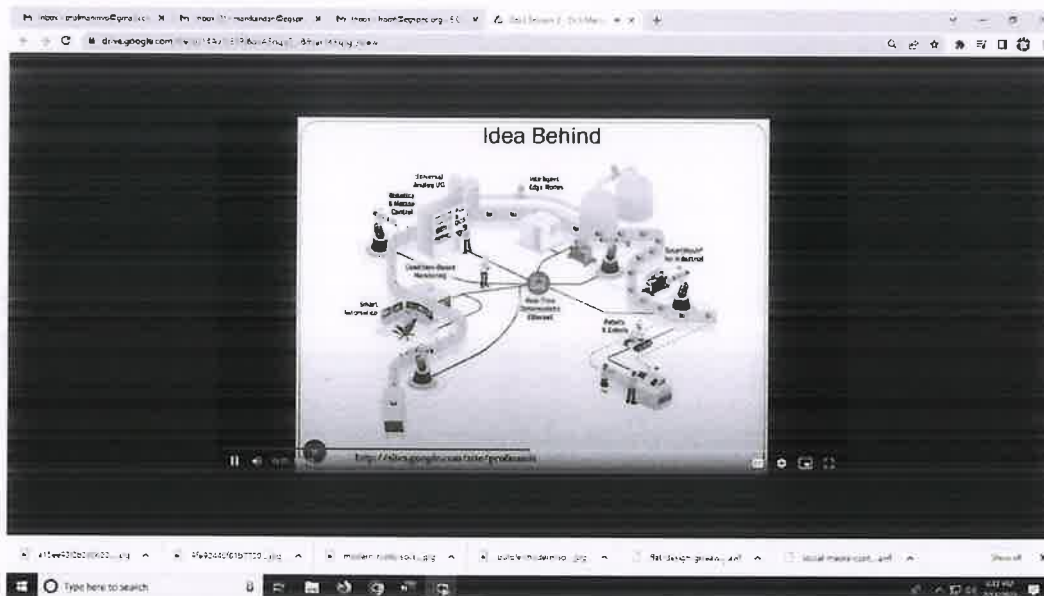
The event was coordinated by following faculties:

- ♣ Asst. Prof. V.M. Suresh, Department of Information Technology
- ♣ Asst. Prof. R. Anand Babu, Department of Information Technology.

**Resource Person:**

Prof.S. Manikandan, Head of the Department, Department of Information Technology

**Sample Photos**




**ATTESTED**  
*[Signature]*  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

Day 2 Session 3 - Dr S Mani

## Apps Development

- Mobile Application Development
  - Android,
  - iOS
  - Windows
- Social Networking
  - YouTube
  - Facebook, Twitter, Whatsapp
  - E-Commerce – Flipkart, Snapdeal





<http://sites.google.com/site/profmanit>

Day 2 Session 3 - Dr S Mani

## SCHEMA

- What is SMAC and Network, Internet
- Why we need Industry 4.0?
- Current Trends in IT / ITeS
- Services and Data Centre
- Forecasting and Predictions in ITeS
- Tools and Implementations

<http://sites.google.com/site/profmanit>

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My Inbox - profmanmp@gmail.com x | My Inbox (1) - manvamsan@engineer x | My Inbox - hod1@egpec.org - EG x | Day2 Session 5 - Dr S Man x x

drive.google.com/.../14Av1EIR8ovA5ngqT...3Pven14Xqig\_view

Concept of Cloudlet

(a) Cloudlet Concept

<http://sites.google.com/site/profmanmp>

Taskbar: a15e93f2b209c20.jpg | 9f692440f01b7732.jpg | modern-music-100.jpg | purple-modern100.jpg | flat-design-givsaaw... | social-media-cont... | 4:28 PM 2/24/2011

*S. N. M. Jay*  
*S. K. S. R. S.*

**Coordinators**

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*[Signature]*  
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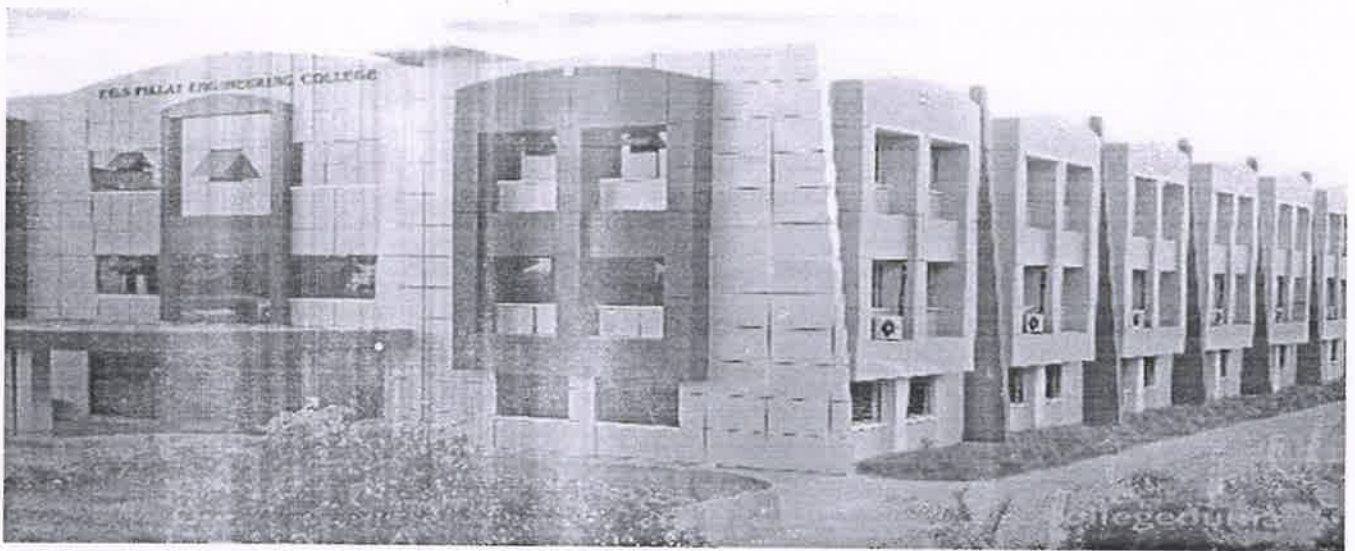
*(Accredited by NBA)*



**TWO DAYS SEMINAR**

**ON**

**HYBRID ELECTRIC VEHICLE (HEV)**



**Date: 28.01.2020 & 29.01.2020**

**Venue: Conference Hall**

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

**E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**A REPORT ON TWO DAYS SEMINAR**

**ON**

**Hybrid Electric Vehicle (HEV)**

**TABLE OF CONTENT**

<b>S.NO</b>	<b>PARTICULARS</b>
1.	Report
2.	Approval letter to Principal
3.	Proposed budget.
4.	Circular
5.	Attendance
6.	Course material
7.	Photos
8.	Feedback form from participants

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**IQAC**

**A REPORT ON TWO DAYS SEMINAR**

**ON**

**Hybrid Electric Vehicle (HEV)**

Initially, the Department of EEE, E.G.S. Pillay Engineering College, Nagapattinam is planned to organize a technical seminar for Teaching faculty members of E.G.S. Pillay group of institutions and through discussions it was coined as "Hybrid Electric Vehicle (HEV)". The program was jointly organized by Internal Quality Assurance Cell (IQAC). The coordinators identified for this workshop are Prof.K.Nandakumar, Prof P.J.Sureshbabu of EEE department.

External Expert Dr.S.Jeevananthan, Professor/EEE/ PEC and Internal Experts Dr.V.Mohan, Professor / HOD/ EEE, Dr.P.Palanivel, Professor / EEE and Dr.T.Suresh Padmanabhan, Professor/EEE as fixed to handle the sessions. The session was inaugurated by the Hon'ble Secretary of the Institution Shri.S.Pamesvaran, and Principal Dr.S.Ramabalan. Prof P.J.Sureshbabu welcomed the gathering and followed by inaugural speech by Dr.V.Mohan, HOD/EEE

The session was started by the External Expert Dr.S.Jeevananthan with the lecture "Insight on Hybrid Electric Vehicle" which is followed with the lecture by Dr. T.Suresh Padmanabhan on "Recent trends in Electrical Vehicle". Dr.P.Palanivel, started the next day morning session with the lecture on "Challenges in Design of Hybrid Electric Vehicle". The final session was handled by Dr. V.Mohan with the lecture on "Battery Management". The entire session created an impact and awareness about need of Hybrid Electric vehicle and its benefits.

Finally, certificates were distributed to all the participants, and a vote of thanks was proposed by one of the program coordinators Prof. K. Nandakumar of the department of EEE.

  
**COORDINATORS**

(Mr.K.Nandakumar & Mr. P.J.Sureshbabu)

  
**HOD/EEE**

(Dr.V.Mohan)

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

From

20.01.2020

Dr.V.Mohan,  
Professor & Head - EEE,  
Dept. of Electrical and Electronics Engineering,  
E.G.S.Pillay Engineering College,  
Nagapattinam.

To

The Principal,  
E.G.S.Pillay Engineering College,  
Nagapattinam.

Respected Sir,

Sub: Requesting permission to conduct two days seminar on “Hybrid Electric Vehicle (HVE)” on 28<sup>th</sup> & 29<sup>th</sup> January 2020 – Reg.,


In association with IQAC, we are planning to organize a two days Seminar on “Hybrid Electric Vehicle (HVE)” on the 28<sup>th</sup> & 29<sup>th</sup> January 2020 for all Teaching staff. In this regard Internal resource persons & External resource person have been confirmed to handle the sessions. To organize this lecture, we seek your permission and we need an amount of **Rs. 6,200/- (Rupees Six thousand and two hundred only)** for organizing this workshop successfully. So, kindly approve the above said fund for this seminar.

Thanking You.

Encl Details:

1. Schedule of the Course.
2. Estimated Budget.

Yours sincerely,



(Dr.V.Mohan)



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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

(iii) Estimated Budget

Sl.No	Items Description	Quantity Required	Amount in Rs.	Estimated Amount In Rs.
1.	Tea ,Snacks & Lunch ((2 days )	40	100	4000
2.	Flex	1	300	300
3.	Media	-	600 (2 Daily Magazine)	600
4.	Invitation & report preparation	-	300	300
5.	Certificate	40	10	400
6.	Workshop Kit	40	15	600
<b>Total Amount</b>				<b>6200</b>

Resource Person	Convener	Program Coordinators
Dr.S.Jeevananthan,Professor/EEE/ PEC Dr.V.Mohan. Professor / HOD/ EEE Dr.P.Palanivel. Professor / EEE Dr.T.Suresh Dr.T.Padmanabhan Professor / EEE	Dr.V.Mohan, Professor & Head - EEE	Mr.K.Nandakumar, AP/EEE Mr.P.J.Sureshabu, AP/EEE

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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu,

(i) Schedule:

Date	Time	Session details	Resource Person
28.01.2020	9.30am - 10.00am	Inauguration	-
	10.00am - 11.15am	Insight on Hybrid Electric Vehicle	Dr.S. Jeevananthan
	11.15am - 11.30pm	Tea break	-
	11.30am - 12.30pm	Insight on Hybrid Electric Vehicle	Dr.S. Jeevananthan
	12.30 pm - 01.15pm	Lunch break	-
	01.15 pm - 03.00pm	Hybrid Electric Vehicle	Dr. T.Suresh Padmanabhan
	03.00 pm - 03.15pm	Tea break	-
	03.15 pm - 04.45pm	Hybrid Electric Vehicle	Dr. T.Suresh Padmanabhan
29.01.2020	09.30am - 11.15am	Challenges in Design of Hybrid Electric Vehicle	Dr.P.Palanivel
	11.15am - 11.30pm	Tea break	-
	11.30am - 12.30pm	Challenges in Design of Hybrid Electric Vehicle	Dr.P.Palanivel
	12.30 pm - 01.15pm	Lunch break	-
	01.15 pm - 03.00pm	Battery Management	Dr. V.Mohan
	03.00 pm - 03.15pm	Tea break	-
	03.15 pm - 04.15pm	Battery Management	Dr. V.Mohan
	04.15pm - 4.45pm	Vote of Thanks, Feedback & Certificate distribution	-

(ii) Participants details:

Participants details	Maximum Number of participants
All Teaching staff	40

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**IQAC**

**CIRCULAR**

Date: 22-01-2020.

We are happy to announce that a two days Seminar on "Hybrid Electric Vehicle (HEV)" is going to be organized by the department of EEE in association with IQAC on 28<sup>th</sup> & 29<sup>th</sup> January 2020 for Teaching staff of our Institution. All Supporting staff and also interested faculty members are requested to register their names to Mr.K.Nandakumar and Mr.P.J.Sureshababu, AP/EEE on or before 24.01.2020.

**HOD/EEE**

**Principal**

- Copy to: 1. The Honorable Secretary, EGSPEC  
2. The Principal, EGSPEC  
3. All Department Notice Board

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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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**CORDIALLY INVITES YOU ALL FOR**

**TWO DAYS SEMINAR**

**ON**

**HYBRID ELECTRIC VEHICLE (HEV)**

**Date: 28.01.2020 & 29.01.2020**

**Venue: Conference Hall**

**Smt. Jothimani G.S. Pillay**  
Chairman – EGSP group of Institutions

**Chev. S. Paramesvaran**  
Secretary - EGSP group of Institutions

**Dr.S.Ramabalan**  
Principal

**Dr.V.Mohan**  
HOD/EEE

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**Nagapattinam (Dt) Tamil Nadu.**





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Department of Electrical and Electronics Engineering

(Accredited by NBA)



## Two Days Seminar on Hybrid Electric Vehicle (HEV)

Date: 28.01.2020 & 29.01.2020

Venue: Conference Hall

### ATTENDANCE

S.NO	STAFF NAME	DEPARTMENT	FN	AN	FN	AN
1.	V. YOKESWARAN	EEE	V.Y/S	V.Y/S	V.Y/S	V.Y/S
2.	Ramesh Kumar	EEE	R.K/S	R.K/S	R.K/S	R.K/S
3.	Nithya Srinivasan.M	ECE	N.S/S	N.S/S	N.S/S	N.S/S
4.	P. Anandha Nageshwaran	EEE	P.A/S	P.A/S	P.A/S	P.A/S
5.	CHOCKALINGAM. S	MECH.	C.S/S	C.S/S	C.S/S	C.S/S
6.	Amritha Raj .P.	EEE	A.R/S	A.R/S	A.R/S	A.R/S
7.	DOEPA, R	ECE	D.R/S	D.R/S	D.R/S	D.R/S
8.	Lalitha . S	ECE	L.S/S	L.S/S	L.S/S	L.S/S
9.	Muruga . J	EEE	M.J/S	M.J/S	M.J/S	M.J/S
10.	Sudana Sadi . a		S.S/S	S.S/S	S.S/S	S.S/S
11.	M. VISAYAKUMAR	EEE	M.V/S	M.V/S	M.V/S	M.V/S
12.	N. MANIKANDAN	EEE	N.M/S	N.M/S	N.M/S	N.M/S
13.	SURESH PARSJI	EEE	S.P/S	S.P/S	S.P/S	S.P/S
14.	Senthil Kumar. D	EEE	S.D/S	S.D/S	S.D/S	S.D/S
15.	Harinarayana. G	MECH	H.G/S	H.G/S	H.G/S	H.G/S
16.	SWAMANI. S	EEE	S.S/S	S.S/S	S.S/S	S.S/S
17.	P. Ramachandran	ECE	P.R/S	P.R/S	P.R/S	P.R/S
18.	S. Senthil Kumar	ECE	S.S/S	S.S/S	S.S/S	S.S/S
19.	Simondan. C		S.C/S	S.C/S	S.C/S	S.C/S
20.	A. ARUNKUMAR	MECH	A.A/S	A.A/S	A.A/S	A.A/S
21.	JIJEEVAMALAR	Mech	J.J/S	J.J/S	J.J/S	J.J/S
22.	Senthil Kumar. K	MECH	S.K/S	S.K/S	S.K/S	S.K/S
23.	K. NANDALCOMAR	EEE	K.N/S	K.N/S	K.N/S	K.N/S
24.	V. NAVANEETHAKRISHNAN	MECH	V.N/S	V.N/S	V.N/S	V.N/S
25.	G. Lakshmi. g a	EEE	G.L/S	G.L/S	G.L/S	G.L/S
26.	R. Suvad	Mech	R.S/S	R.S/S	R.S/S	R.S/S
27.	SENTHIL KUMAR. T	ECE	S.T/S	S.T/S	S.T/S	S.T/S
28.	B. Manikandan	mech	B.M/S	B.M/S	B.M/S	B.M/S
29.	DEVARAJAN	ECE	D.V/S	D.V/S	D.V/S	D.V/S
30.						
31.						
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Nagapattinam (Dt) Tamil Nadu.

**HOD/EEE  
(Dr. V. Mohan)**

**Dr.S. Jeevananthan, B.E., M.E., Ph.D.,**

**Professor**

**Phone: 0413-2655281-288, Extn.:517 , E-mail:drs\_j\_eee@pec.edu**



**Educational Profile:**

Ph.D.(2008)

Title : Performance Evaluation of Innovative Control Strategies for Power Electronic Converters  
Institution : Pondicherry Engineering College, Pondicherry, India  
University : Pondicherry University

M.E(2000)

Course : Power Electronics and Drives  
Institution : PSG College of Technology ,Coimbatore, India  
University : Bharathiyar University

B.E(1998)

Course : Electrical and Electronics Engineering  
Institution : Mepco Schlenk Engineering College, Sivakasi, India  
University : Madurai Kamaraj University

**Publications:**

International Journals:

1. V.Viswanathan and S.Jeevananthan, " A New Approach for Torque Ripple Reduction for Brushless DC Motor Based on Three-Level Neutral-Point-Clamped Inverter with DC-DC Converter", COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering (COMPEL), Vol.35 No.3, pp.1-24, 2016.
2. C.Bharatiraja, S.Jeevananthan, J.LMunda and R.Latha, "Improved SVPWM vector selection approaches in OVM region to reduce common-mode voltage for three-level neutral point clamped inverter", International Journal of Electrical Power and Energy Systems (Elsevier), 79, 285–297, 2016.
3. C.Bharatiraja, S.Jeevananthan, R.Latha, and V.Mohan, A Vector Selection Approach Based Hexagonal Hysteresis - Space Vector Current Controller for a Three Phase Diode Clamped MLI with Capacitor Voltage Balancing, IET Power Electronics, PEL-2015-0184.R2 (In press).
4. S. Thamizharasan, J. Baskaran, S. Ramkumar and S. Jeevananthan, "A Carrierless PWM Strategy for Multilevel Inverters", IET Power Electronics, vol.8, no.10, pp. 2034–2043, 2015.
5. V.Krishnakumar, V.Kamaraj and S.Jeevananthan, "Random Pulse Width Modulation Technique for Performance Improvement of Multilevel Inverter Brushless DC Motor Drive", Australian Journal of Basic and Applied Sciences, Vol.9, no.16, pp. 162-171, Special 2015.
6. V.Mohan, N.Stalin and S.Jeevananthan, "A Double Random Pulse Width Modulation Based on Discrete Carrier Frequencies and Random Pulse Position for Induction Motor Drives", International Journal of Applied Engineering Research, Vol.10, No.51, pp. 479-484, 2015.

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7. Sridhar Ramasamy, Jeevananthan S, Dash S.S and Krishna Chaitanya, "A dodging algorithm to reconfigure photovoltaic array to negate partial shading effect", Progress In Photovoltaics: Research and Applications, 2015.
8. S.Sangeetha and S. Jeevananthan, "Influence of crossover methods used by genetic algorithm-based heuristic to solve the selective harmonic equations (SHE) in multi-level voltage source inverter", Sadhana-Springer (Journal of Indian Academy of Sciences), vol.40, no.8, pp. 2389-2410, 2015.
9. V.Viswanathan and S.Jeevananthan, " A New Approach for Torque Ripple Reduction for Brushless DC Motor Based on Three-Level Neutral-Point-Clamped Inverter with DC-DC Converter", IET Power Electronics, vol.8, no.1, pp. 47 - 55, 2015.
10. R. Sridhar, S. Jeevananthan, S. S. Dash, and Kiran Vemula," Investigation on a Modified 11-Level Cascaded Inverter Fed by Photovoltaic Array for Standalone Applications", Journal of Solar Energy Engineering, vol.137, 021002-1 - 021002-7, 2015.
11. R. Sridhar, S. Jeevananthan, S. S. Dash and N. T. Selvan, "Unified MPPT Controller for Partially Shaded Panels in a Photovoltaic Array", International Journal of Automation and Computing, Vol.11, No.5, pp. 536-542, 2014.
12. R. Sridhar, S. Jeevananthan, S. S. Dash and N. T. Selvan, "An Intelligent Differential Evolution based Maximum Power Point Tracking (MPPT) Technique for Partially Shaded Photo Voltaic (PV) Array", International Journal on Advances in Soft Computing and Its Application, Vol.6, No.2, pp.1-16, 2014.
13. C.Bharatiraja, S.Jeevananthan, and R.Latha, "FPGA based practical implementation of NPC-MLI with SVPWM for an autonomous operation PV system with capacitor balancing", International Journal of Electrical Power and Energy Systems, Vol.61, No., pp.489-509, 2014.
14. S.Sangeetha and S. Jeevananthan, "Neighbourhood Crossover Embroided Binary GA Based SHEPWM for Seven Level MLI ", AMSE JOURNALS –2014-Series: Advances D; Vol. 19; N°1 ; pp 15-32.
15. R. Sridhar, S. Jeevananthan, S. S. Dash and S.T. Michael, "Cost Effective Digital Signal Controller based Maximum Power Tracking Technique for Photovoltaic Power System", International Journal of Control and Automation, Vol.7, No.6, pp.389-400, 2014.
16. K.Ramash Kumar, S.Jeevananthan and S.Ramamurthy, "Improved Performance of the Positive Output Elementary Split Inductor-Type Boost Converter using Sliding Mode Controller plus Fuzzy Logic Controller", WSEAS Transactions on Systems and Control, vol.9, pp.215-228, 2014.
17. Sangeetha.S, and S.Jeevananthan, "Resultant Theory and Jenkins-Traub Algorithm Based SHEPWM using Assimilated Software Environment for a Seven Level VSI.", Asian Power Electronic Journal, vol. 8, no.1, pp.1-9, 2014.
18. S.Thamizharasan, J.Baskaran, S. Ramkumar and S.Jeevananthan, "Cross-switched multilevel inverter using auxiliary reverse-connected voltage sources", IET Power Electronics, vo.7,no.6, pp. 1519 – 1526, 2014.
19. C.Bharatiraja, S.Jeevananthan and S.S. Dash., " Design And Validation Of Simple Space Vector PWM Scheme For Three-Level NPC– MLI With Investigation Of DC Link Imbalance Using FPGA -IP Core", Journal of Electrical Engineering (JEE), 13(1) , pp. 48-53, 2013.
20. C. Bharatiraja, S. Jeevananthan and S.S.Dash, "A Vector Selection Approach Based on Control Degree of Freedom to Provide DC-Link Voltage Balancing in Diode Clamped Multilevel Inverter ", International Review of Electrical Engineering (IREE), February 2013 Vol. 8, No.1, Part A.
21. K. Ramash Kumar and S. Jeevananthan," Design and Implementation of Reduced Order Sliding Mode Controller plus Proportional Double Integral Controller for Negative Output Elementary Super Lift Luo-Converter," IET Power Electronics, pp.1-16, 2013.
22. T.Suresh Padmanabham, M.Sudhakaran and S.Jeevananthan, "Novel Adaptive Control Scheme for Suppressing Input Current Harmonics in Three-phase AC Chopper", International Review of Automatic Control (I.R.E.A.CO), Vol.5,No.6, (ISSN 1974-6059), pp.783-789, November 2012.

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**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

**Experience:**

Professional Experience:

1. Professor of Electrical and Electronics Engineering, Pondicherry Engineering College (January, 2015- till date)
2. Associate Professor of Electrical and Electronics Engineering, Pondicherry Engineering College (January, 2012 –January, 2015)
3. Assistant Professor of Electrical and Electronics Engineering, Pondicherry Engineering College (January, 2009 - January 2012)
4. Senior Lecturer of Electrical and Electronics Engineering, Pondicherry Engineering College (January, 2006 - January, 2009)
5. Lecturer of Electrical and Electronics Engineering, Pondicherry Engineering College (January, 2001 - January, 2006)

Other Experiences:

1. Member - Centralized Admission Committee (CENTAC) - Pondicherry State Professional Courses Admission, Year 2001, 2002, 2003, 2004, 2005 and 2006.
2. Assistant Proceeding officer, JET-Pondicherry Stste Professional Courses Joint Entrance Test 2004, 2006.

Reviewer of the following:

1. IEEE Transactions of Industrial Electronics
2. IEEE Power Engineering Society (PES)
3. AMSE Periodicals, France.
4. Journal of The Society for Modeling and Simulation International
5. International Journal of Power Electronics (IJElec) Indescience Publishers
6. Also Served as reviewer for about 25 International Conferences

Special Lectures Delivered:

Delivered technical talks/keynote addresses in the following topics

1. Innovative PWM Strategies Applicable to VSI
2. Effects of Harmonics in Rotary Machines
3. MLI Topologies Review and Ingenious Proposals
4. Torque Ripple Minimization Options in Special Electric motors and Implementations
5. Pulse Width Modulation Schemes for Inverter with Fluctuating DC Input
6. SHE-PWM for MLI

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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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Thethi, Nagore - 611 002.  
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23. V.Viswanathan, and S.Jeevananthan, "A Novel Space-Vector Current Control Method for Commutation Torque Ripple Reduction of Brushless DC Motor Drive", The Arabian Journal for Science and Engineering (Springer), Vol.38, No.10, pp.2773-2784, 2012.
24. S. Thamizharasan, J. Baskaran, S. Ramkumar and S. Jeevananthan, "A new dual bridge multilevel dc-link inverter topology", International Journal of Electrical Power and Energy Systems (Elsevier), 45, 376–383, 2012.
25. K.Ramash Kumar and S.Jeevananthan, "Modelling and Implementation of Fixed Switching Frequency Sliding Mode Controller for Negative Output Elementary Super Lift Luo-Converter", IET Power Electronics, vol.5, no.8, pp. 1593 - 1604, 2012.
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3. Co-authored a text book "Power Electronics", SCITECH Publications (India) pvt. Ltd., August, 2008. ISBN-9788183711470.

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# Hybrid Electric Vehicles

Present by:

Dr.S.Jeevananthan,  
Professor/EEE

Pondicherry Engineering College

Date: 28.01.2020 & 29.01.2020

Venue: Conference Hall

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## *Overview*

- What is an HEV?
- HEV objectives
- HEV advantages over conventional engines
- Motor components
- Vehicle propulsion
- Examples
- HEV Challenges
- Review

# *What is an HEV?*

## HEV – Hybrid Electric Vehicle

A vehicle that has two or more energy conversion technologies combined with one or more energy storage units



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## *HEV Objectives*

Objectives the HEV wants to obtain:

- Maximize fuel economy
- Minimize fuel emissions
- Minimize propulsion system cost to keep affordable
- Maintain acceptable performance with a reasonable cost
- Reduce the conventional car weight

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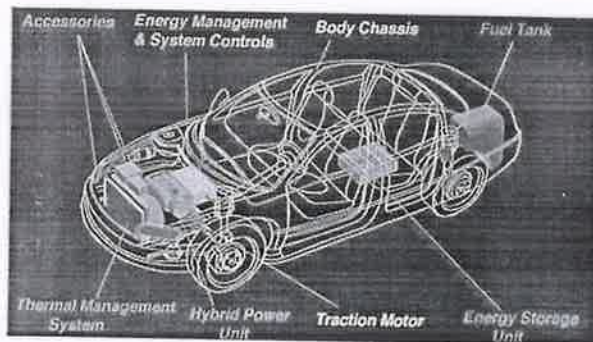
# HEV Advantages Over Conventional Engines

- Regenerative Braking
- Reduction in engine and vehicle weight
- Fuel efficiency is increased
- Emissions are decreased
- Cut emissions of global warming pollutants by 1/3 or 1/2
- Reduce the dependency on fossil fuels
- Some states offer incentives with owning an HEV
- ~2 times more efficient than conventional engines

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## Motor Components



### Drive train

- Electric Motors/Controllers
- Electric Energy Storage systems
- Hybrid power units
- Transmission

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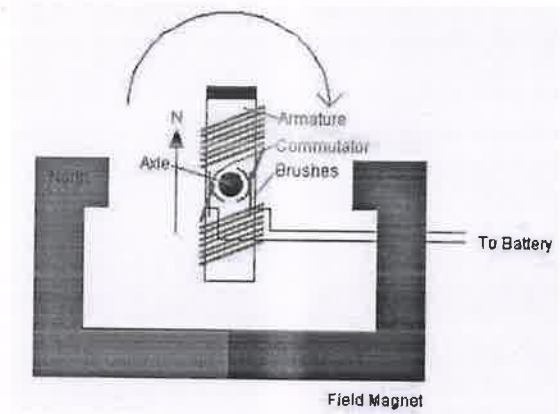
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# Motor Components

## Electric Motors/Controllers

- Basic Components
  - An Armature or Rotor
  - A Commutator
  - Brushes
  - An Axle
  - Field Magnet
  - DC Power Supply



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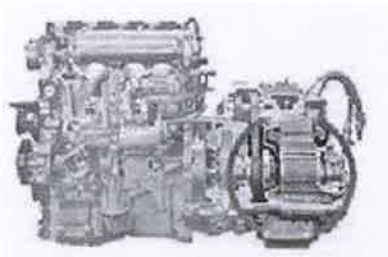
# Motor Components

## Electric Motor/Controllers

Advanced electronics allows the motor to act as a generator

Draws energy to accelerate and regenerates the battery when slowing down

Motor uses magnets and magnetism to create motion



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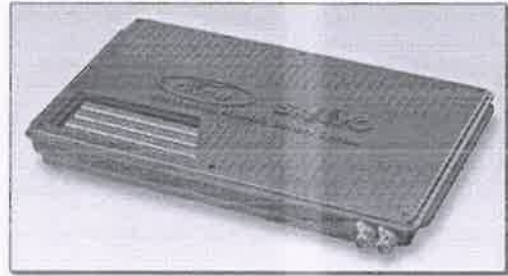
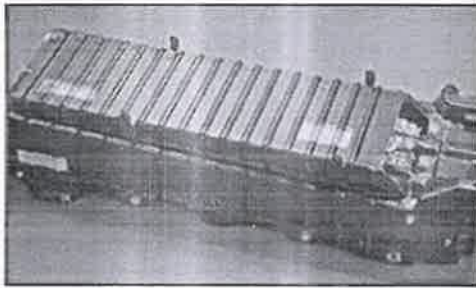
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# Motor Components

## Electric Energy Storage Systems

- Batteries: Lithium Ion and Nickel-metal hydride batteries
- Ultracapacitors
- Flywheels



# Motor Components

## Electric Energy Storage Systems

### Desirable attributes:

- High-peak and pulse specific power
- High specific energy at pulse power
- High charge to maximize regenerative braking
- Long life

### Challenges:

- Accurate techniques to determine battery state of charge
- Develop abuse-tolerant batteries
- Recycleability

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# Motor Components

Batteries	Nickel-Metal Hydride	Lithium Ion
<b>Current Uses</b>	Computer and Medical equipment	Laptops and Cell phones
<b>Life Cycle</b>	Much larger than lead acid batteries	Low
<b>Current contribution</b>	Used successfully in low production of HEVs	NA
<b>Challenges</b>	High Cost High self-discharge Heat generation Control losses of hydrogen Low cell efficiency	Life cycle Cell and battery safety Abuse tolerant Acceptable cost
<b>Miscellaneous</b>	Reasonable specific energy and power Components are recyclable Abuse-tolerant	High specific energy and power High energy efficiency Good high-temperature performance Low self-discharge Recyclable parts

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# Motor Components

## Energy Storage: Ultracapacitors

Store energy as an electric charge in a polarized liquid layer between an ionically electrolyte and conducting electrode

Primarily used for acceleration, climbing hills and regenerative braking



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# Motor Components

## Energy Storage: Flywheel

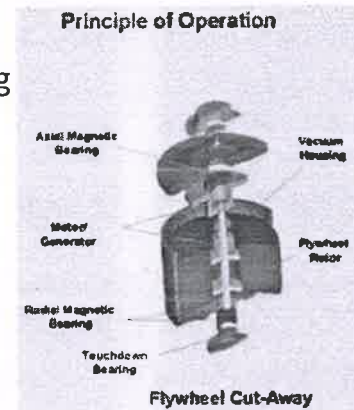
Store kinetic energy within a rapidly spinning wheel

Complex, heavy, and large

Contains no acid or hazardous material

Not affected by temperature

Delivers a smooth flow of power



[Click for more information on the fly wheel](#)

# Motor Components

## Charging/Discharging the Battery

The following are some links to visually display the characteristics of the motor and engine during different scenarios

- [Driving at low speeds](#)
- [City driving](#)
- [Highway driving](#)
- [Uphill driving](#)
- [Coasting/Slowing/Stopping](#)

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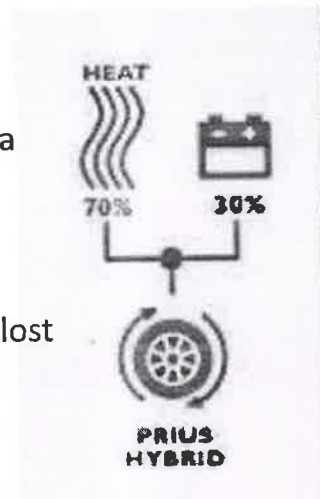
  
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# Motor Components

## Regenerative Braking

When the driver brakes, the motor becomes a generator and the kinetic energy generates electricity stored into the battery

The Toyota Prius uses about 30% of the heat lost kinetic energy from braking



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# Motor Components

## Hybrid Power Units

### 4 Types:

- Compression Ignition Direct Injection Engines (CID)
- Spark Ignition Engines
- Gas Turbines
- Fuel Cells

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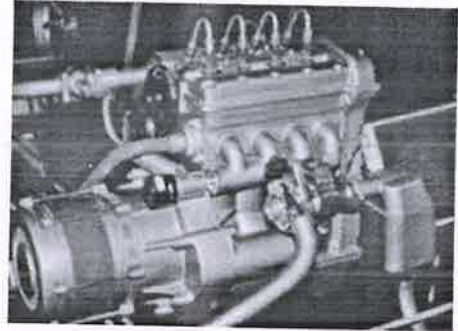
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# Motor Components

## Hybrid Power Units: CIDI

- Most promising power unit
- Achieves combustion through compressions without the use of a spark plug
- High pressure injection of the fuel into the combustion chamber
- Throttle and heat losses travels into the combustion chamber increasing thermal efficiency

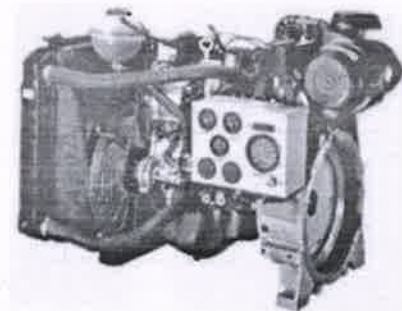


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# Motor Components

## Hybrid Power Units: Spark Ignition

- Runs on an Otto cycle
- Uses a homogeneous air-fuel mixture before entering the combustion chamber
- When the combustion chamber is compressed, the spark plug is ignited
- Controlled by limiting the amount of air allowed into the engine



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# Motor Components

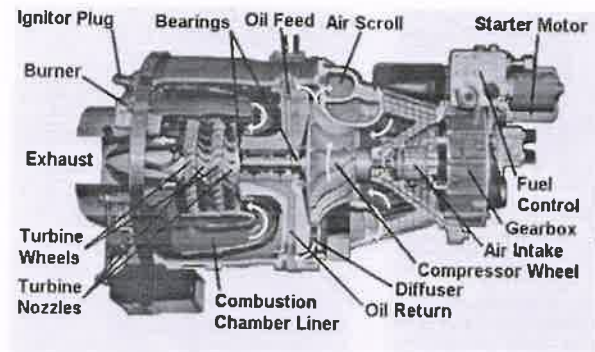
## Hybrid Power Units: Gas Turbines

Runs on a Brayton cycle

A compressor raises the pressure and temperature of the inlet air

Air is moved to the burner and fuel is injected and combusted to raise the air temperature

Power is produced when the heated pressure mixture is expanded and cooled through the turbine



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# Motor Components

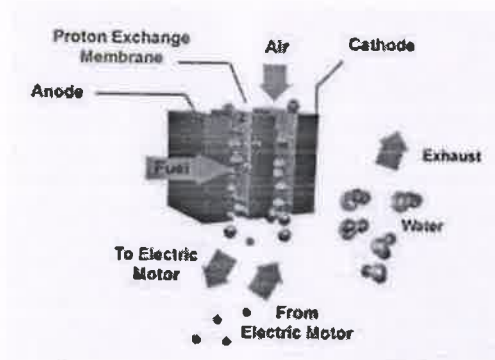
## Hybrid Power Units: Fuel Cells

Generate electricity through an electrochemical reaction combining hydrogen with ambient air

Pure hydrogen or any fossil fuel produced is used as hydrogen-rich gas

Water vapor is emitted

[Click to see an animation of the steps to make electricity from a fuel cell.](#)



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# Motor Components

## Transmission

### 4 Types:

- Continuous Variable Transmission (CVT)
- Automated shifted transmission
- Manual transmission
- Traditional automatic transmission with torque converter

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# Motor Components

## Transmission: CVT



Infinite number of variable transmissions

Currently not able to compete with 4-speed and 5-speed transmissions in size, cost, and reliability

Provides seamless, stepless acceleration and deceleration

The Toyota Prius uses this

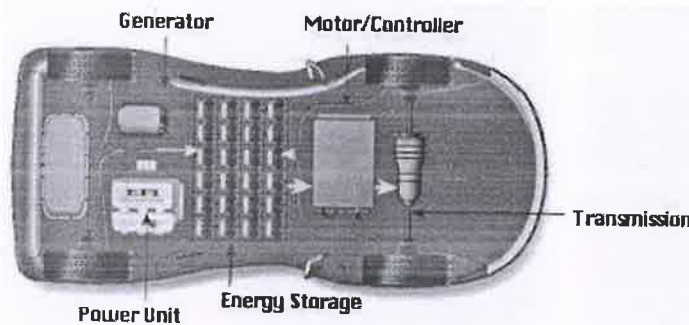
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# Vehicle Propulsion

- Series "Power Assist"
- Parallel "Range Extender"
- Dual-Mode: Combination of a series and parallel



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# Vehicle Propulsion

## Series Configuration

Small fuel-burning engine that directly drives an alternator to generate electricity

Electricity is stored in the battery or sent to electric motor

When the batteries are drained to a certain level, the engine turns on and recharges the battery



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# Vehicle Propulsion

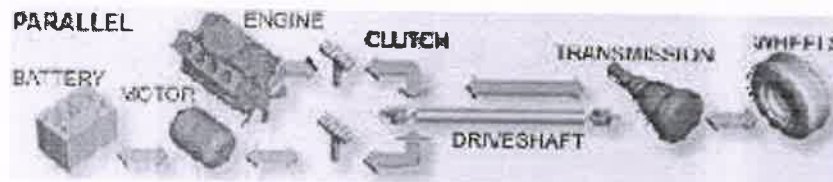
## Parallel Configuration

Two power paths

Hybrid power unit or electric propulsion system or both can power the wheels

For long trips the engine is used

For hills, acceleration, and high power scenarios the electric motor is used



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# Vehicle Propulsion

Propulsion Comparison	Series Configuration	Parallel Configuration
<b>Benefits</b>	<p>Engine never idles reducing emissions</p> <p>Engine drives a generator to run at optimal performance</p> <p>Allows a variety of options in mounting the engine</p> <p>Some don't need a transmission</p>	<p>Has more power from simultaneous power from motor and engine</p> <p>Don't need a separate generator because the motor generates the battery</p> <p>Power is directly coupled to the road so can be more efficient</p>

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# Examples

Toyota Prius



Honda  
Insight



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# Examples

		Toyota Prius	Honda Insight
Electric Motor/Generator /Power Storage	<i>Output</i>	273.6V (228 cells @ 1.2V)	144V (120 cells @ 1.2V)
	<i>Battery Type</i>	Nickel-Metal Hydride	Nickel Metal Hydride
	<i>Power Output</i>	33kW @ 5600rpm	10kW @ 3000rpm
Transmission		ECVT	CVT
Mileage City/Highway		52/45	61/68
Gasoline Engine	<i>Horsepower @ rpm</i>	70hp @ 4500rpm	67h @ 5700rpm
	<i>Emission Rating</i>	SULEV	ULEV

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# HEV Challenges

- Energy storage devices with high power-to-energy ratios
- Frequent shut down and start up of the HEV
- Reduce the size, weight, and cost
- Higher efficiency in the conversion of fuel to useful power
- Advanced configurations for the propulsion system components

## Review

- What is an HEV?
- HEV objectives
- HEV advantages over conventional engines
- Motor components
- Vehicle propulsion
- Examples
- HEV Challenges

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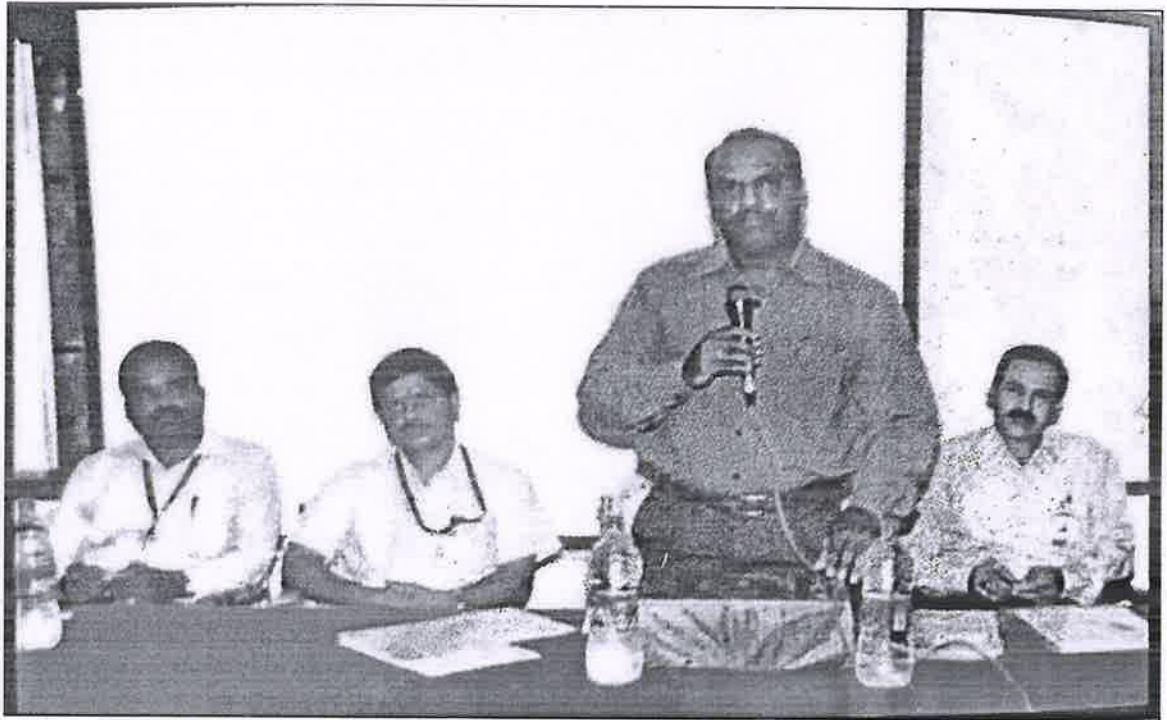
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**Two Days Seminar on Hybrid Electric Vehicle (HVE)**



Two days Seminar on Hybrid Electrical Vehicle Inaugural Function on 28.01.2020 at the Conference Hall.

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Two days Seminar on Hybrid Electrical Vehicle on 28<sup>th</sup> and 29 January 2020 at the Conference Hall.



Two days Seminar on Hybrid Electrical Vehicle Certificate Distribution Function on 29.01.2020.

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## PARTICIPANT FEEDBACK FORM

Program : Two Days Seminar  
 Title : Hybrid Electric Vehicle (HVE)  
 Date : 28.01.2020 & 29.01.2020  
 Coordinators : Mr.K.Nandakumar & Mr.P.J Sureshababu  
 Organizer : Department of Electrical and Electronics Engineering  
 Institution : E.G.S. Pillay engineering College

**Instruction:** Please indicate your level of agreement with the statements listed below in scores ranging from 5-1

S.No	Parameters	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1	The objectives of the course were clearly defined	/				
2	Participation and interaction were encouraged	/				
3	Topics covered were relevant to the programme	/				
4	The content was organized and easy to follow	/				
5	The content is easy to understand useful to analyze		/			
6	This course experience will be useful in my teaching/ research	/				
7	Lectures were very informative on current state of art design and useful to apply the concepts	/				
8	The programme objectives were met	/				
9	Time allotted for topics were sufficient		/			
10	The learning environment and facilities were adequate and comfortable	/				

**Overall rating:** Excellent (E) / Good (G) / Satisfactory(S) / Poor (P)

11	What did you like most about this programme?  <div style="text-align: center;"><i>Overall Good</i></div>
12	What are the things to be added for improvement?  <div style="text-align: center;">—</div>
13	Any more suggestions to improve the programme  <div style="text-align: center;">—</div>

**Thanks for your valuable feedback**

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 Title : Hybrid Electric Vehicle (HVE)  
 Date : 28.01.2020 & 29.01.2020  
 Coordinators : Mr.K.Nandakumar & Mr.P.J Sureshbabu  
 Organizer : Department of Electrical and Electronics Engineering  
 Institution : E.G.S. Pillay engineering College

**Instruction:** Please indicate your level of agreement with the statements listed below in scores ranging from 5-1

S.No	Parameters	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1	The objectives of the course were clearly defined	✓				
2	Participation and interaction were encouraged	✓				
3	Topics covered were relevant to the programme		✓			
4	The content was organized and easy to follow	✓				
5	The content is easy to understand useful to analyze	✓				
6	This course experience will be useful in my teaching/ research	✓				
7	Lectures were very informative on current state of art design and useful to apply the concepts	✓				
8	The programme objectives were met	✓				
9	Time allotted for topics were sufficient	✓				
10	The learning environment and facilities were adequate and comfortable		✓			

**Overall rating:** Excellent (E) / Good (G) / Satisfactory(S) / Poor (P)

11	What did you like most about this programme?  Content
12	What are the things to be added for improvement?  None
13	Any more suggestions to improve the programme  nil

**Thanks for your valuable feedback**

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**



# E.G.S PILLAY ENGINEERING COLLEGE (Autonomous)

**NAGAPATTINAM - 611002**

Accredited by NAAC with 'A' Grade | Accredited by NBA (EEE, MECH, CSE)  
Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai



Two days workshop on

## HYBRID ELECTRIC VEHICLE (HEV)

Organized by  
Department of Electrical & Electronics Engineering

### Certificate

This is to certify that Mr. / Ms. / Mrs. \_\_\_\_\_ has attended two days Seminar on  
of \_\_\_\_\_  
Hybrid Electric Vehicle (HEV) on 28<sup>th</sup> & 29<sup>th</sup> January 2020 at E.G.S.Pillay Engineering  
College, Nagapattinam.

*W. S. S. S.*

**CONVENER**

**ATTESTED**  
*Dr. S. Ramapalan*

**Dr. S. RAMAPALAN, M.E., Ph.D.,**  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Ifethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

*Dr. S. Ramapalan*

**PRINCIPAL**



**E.G.S. PILLAY ENGINEERING COLLEGE,  
NAGAPATTINAM-611002**

**25**  
YEARS OF  
EXCELLENCE

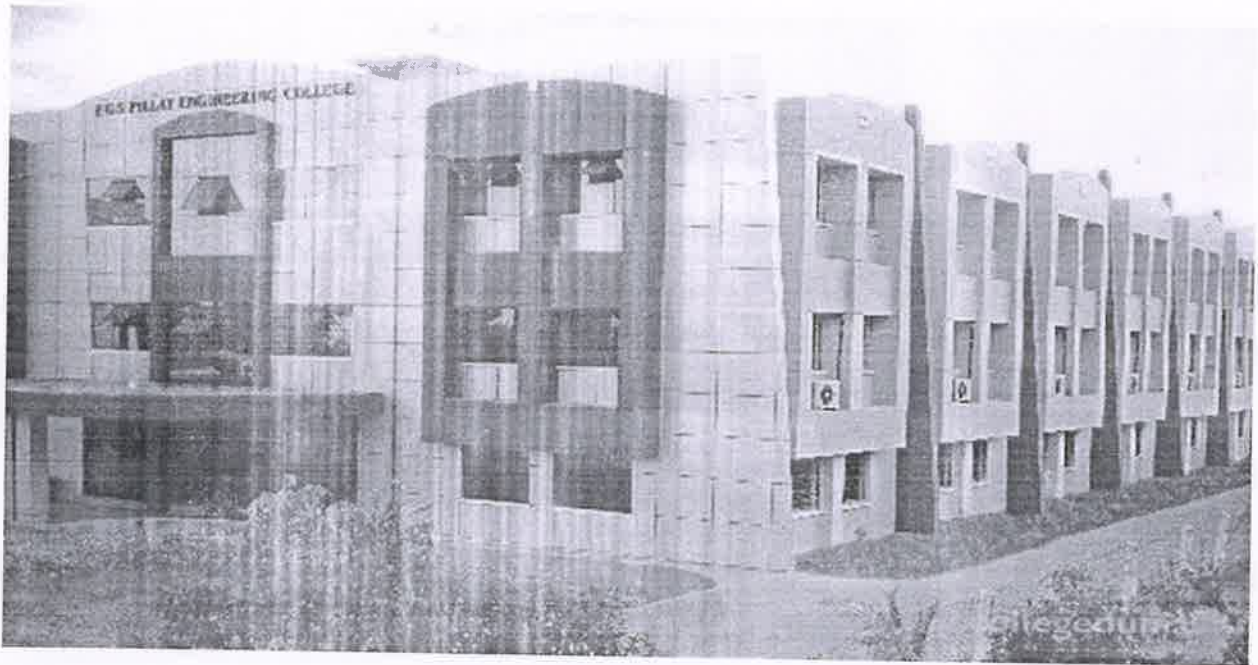
**(An Autonomous Institution)**

Accredited by NAAC with "A" Grade | An ISO 9001:2015 Certified  
Institution

A REPORT ON TWO DAY SEMINAR

ON

**E-WASTE MANAGEMENT**



ORGANIZED BY DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING

DATE: 11th & 12th December 2019

**ATTESTED**  
*[Signature]*  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**TABLE OF CONTENTS**


<b>S.NO</b>	<b>PARTICULARS</b>
1.	Report
2.	Approval letter to Principal
3.	Proposed budget
4.	Circular
5.	Attendance
6.	Course material
7.	Photos
8.	Feedback form from participants

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**Report**  
On  
**E-Waste Management**

A two day seminar on “ E-Waste management” been conducted on 11.02.2019 and 12.02.2019 for the faculty members of the E.G.S.Pillay Engineering college, Nagapattinam.30 faculties from various departments have registered and participated in this two day seminar programme. Lot of scientific studies have shown this global e-waste has detrimental effects on the people that work with the e-waste but also the people that live around it which makes the importance of studying this topic. The course covers the overview on modern technologies adopted in our country and various other countries for recycling ,recovering and treatment process of e-wastages and the seminar highlights the scenario of e-waste in India and other parts of globe. It also exhibits the trends of e-waste in India through a comparison with other countries. Recycling e-waste also helps recover precious metals like gold, silver, cobalt, etc. As many more environmental epidemiological studies are required to assess the present status of e-waste management system in India, to assess the e-waste quantities and exact amplitude of the problem in Indian cities, and to establish relationships with the informal recycling sectors. The valuable data on that would help in drafting an action plan for e-waste management has been discussed in this two day seminar.

Reported by,

  
(B. AMALORE NANDEENT ANTONY)  
AP/EEE

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

Requisition letter

From,

B Amalore Naveen Antony, AP/EEE  
E.G.S.Pillay Engineering College,  
Nagapattinam

To,

The principal,  
E.G.S.Pillay Engineering College,  
Nagapattinam


Sub: requisition for conducting seminar for faculties on -reg

Sir,

As I have planned to conduct an two day seminar on “ E-Waste management for the faculty members from various departments of our institution ,I request you to grant me permission for conducting the seminar on 11.02.2019 & 12.02.2019 both days at seminar hall of EEE department .herewith I attach the budget proposal for the seminar .

Thanking you,

  
B.Amalore Naveen Antony

  
**Dr. S. RAMABALAN**, M.E., Ph.D.,  
**PRINCIPAL**  
E.G.S. Pillay Engineering College.  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.


E.G.S.PILLAY ENGINEERING COLLEGE (Autonomous), NAGAPATTINAM  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Budget proposal for the seminar  
on


“E-Waste management”

Date: 11.2.2019 & 12.2.2019

S.No	Description	Amount required (in Rs)
1.	Poster design	100
2.	Refreshment for participants (two days)	1050
3.	Housekeeping & other facilities	200
➤ Total amount required		Rs.1350

  
Course coordinator

  
HOD/EEE

  
Approved by,  
**Dr. S. RAMABALAN, M.E., Ph.D.**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College.  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



E.G.S.PILLAY ENGINEERING COLLEGE (Autonomous), NAGAPATTINAM  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CIRCULAR

05.02.2019

**SEMINAR ON E-WASTE MANAGEMENT**

On the part of the professional activity and facilitating training on various technologies and science area an one day seminar on “ **E-Waste management** ,” been organized on **11.02.2019 &12.02.2019** ,both days for all faculty members who are all interested in area of environmental and global impacts .

Seminar presentation: **B.Amalore Naveen Antony, AP/EEE**

Venue : EEE seminar hall

Time : 10.00 am to 4.30 pm

  
HOD/EEE

(Note: circular copy to all departments )

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thothi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS), THETHI, NAGORE**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**SEMINAR ON E-WASTE MANAGEMENT**  
**LIST OF PARTICIPANTS**

S.No	Name of the participant	Department	Signature of the participant
1.	Dr.S.Thamizharasan	EEE	
2.	R.Anandaraj	EEE	
3.	M.Vijayakumar	EEE	
4.	K.Nandakumar	EEE	
5.	P.J.Sureshbabu	EEE	
6.	K.Krishnaram	EEE	
7.	Ganesan @Subramanian	EEE	
8.	S.Latha	EEE	
9.	J.Menaka	EEE	
10.	M.Ramya	EEE	
11.	V.Yokeshwaran	EEE	
12.	D.Senthilkumar	EEE	
13.	G.Krithiga	EEE	
14.	J.Jayasri	EEE	
15.	A.Charles	S&H	
16.	S.Kamalanathan	S&H	
17.	V.Johnpaul	S&H	
18.	D.Devarajan	ECE	
19.	M.Nuthal srinivasan	ECE	
20.	C.Mathuvanesan	ECE	
21.	R.Sundar	MECH	
22.	G.Sundaravadivel	MECH	
23.	A.Baskar	CSE	
24.	M.Marco	CSE	
25.	K.P.Thamaraikannan	CSE	
26.	K.Raju	IT	
27.	K.Nagalakshmi	IT	
28.	S.Chitra	ECE	
29.	K.Marimuthu	MECH	
30.	G.Surendar	MECH	

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

**COORDINATOR**

## COURSE MATERIALS

### Need of the course

- Study on the pollutants emitted from recycling of E-waste.
- managing E-wastes in an effective manner.
- initiatives took around the globe for E-waste management.
- rules formulated in India for E-waste management.
- Newer practices in managing E-wastes.

### About the course

- This course will discuss the overall scenario of E-Waste management in India in comparison with other countries around the globe.
- the effects of recycling and management of Electronic Waste on human health, environment and society will also be presented.
- The E-Waste management Rules of India and around the World will be compared.
- The challenges of E-Waste management for smart cities will also be discussed taking few case studies from various developing nation around the globe.

ATTESTED



**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

## Digital dumping

- defined as an activity to dispose of e-waste in view of environmental harms and health concerns
- example: the dumping of electronic waste and obsolete digital equipment, laptops or pcs, other computer equipment, smart phones and monitors into landfills, waters and/or on foreign lands.
- more advantaged countries are dumping (exporting) tons of digital waste (e-waste) into less advantaged countries such as Africa, Asia, India and others, especially since circuit boards, smart phones and computer screens contain copper, gold, zinc, beryllium, and tantalum, lead based coatings and lithium batteries; the health effects of digital dumping are a major concern as is the pollution impact on the environment.

## Current Indian scenario

- Affordability and comfort are two main factors drives the up gradation of technology nowadays leads the consumer to discard e-wastes in a faster rate .
- India is ranged high along with china, Japan ,Germany and other strong nations .
- 4 millions of peoples doing the waste picking jobs and their lives depends on scavenging recyclable wastes.

ATTESTED  
  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
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Nagapattinam (Dt) Tamil Nadu.

## Challenges to Policy makers

Lack of resources at civic bodies, old equipment and technology and societal apathy

Laws for waste management are very old which need to be aligned with present requirements

No separate department for waste management in Urban Local Bodies

To cultivate the feeling of cleanliness in children as well as in citizens through education and awareness programme

## Biotechnological e-waste management

Micro remediation of E waste :

Micro remediation is defined as the use of the microorganisms to eliminate, contain or transform the contaminants to non- hazardous or less-hazardous form in the environment through the metabolisms of microorganisms.

There are 6 major mechanisms in micro remediation of toxic metals which are

- 1) Bioleaching
- 2) Biosorption;
- 3) Bioaccumulation
- 4) Biotransformation
- 5) Biomineralization and
- 6) Microbially- enhanced chemisorption of metals.

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

## Comparison between developing and developed countries

- Use of information and communication technologies (ICTs) in developing countries has grown significantly since the start of the twenty-first century.
- e-Waste recycling is an opportunity for developing countries since valuable items can be extracted from it: glass, copper, nickel, chromium, silver, etc.
- Growth rate of e-waste is comparatively higher in case of developing country.

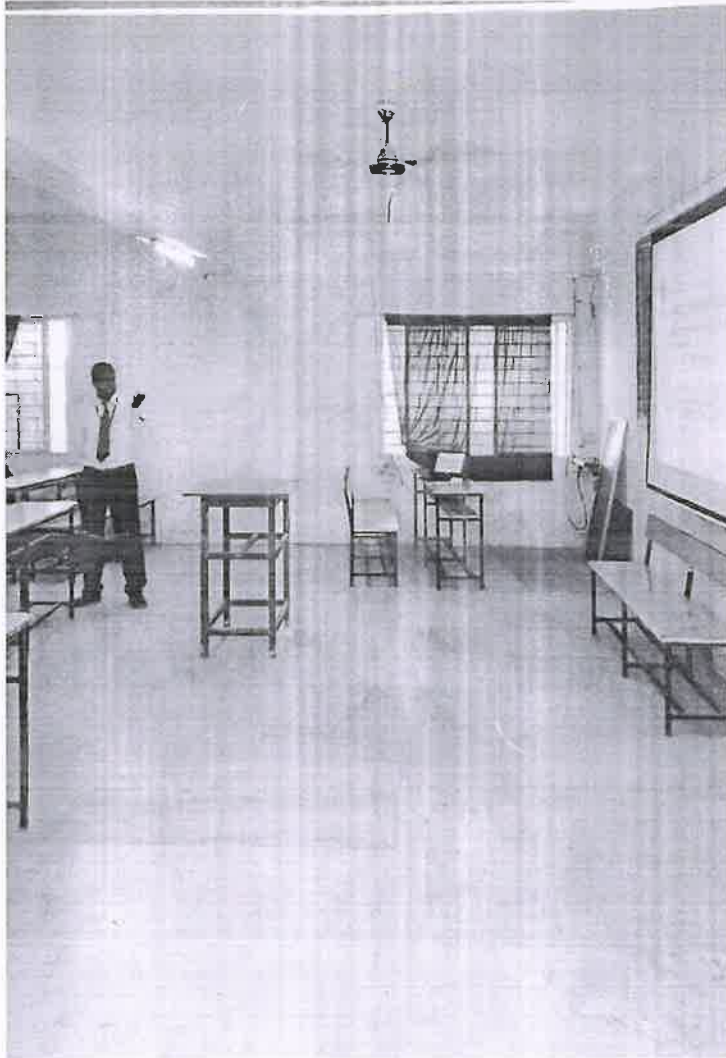
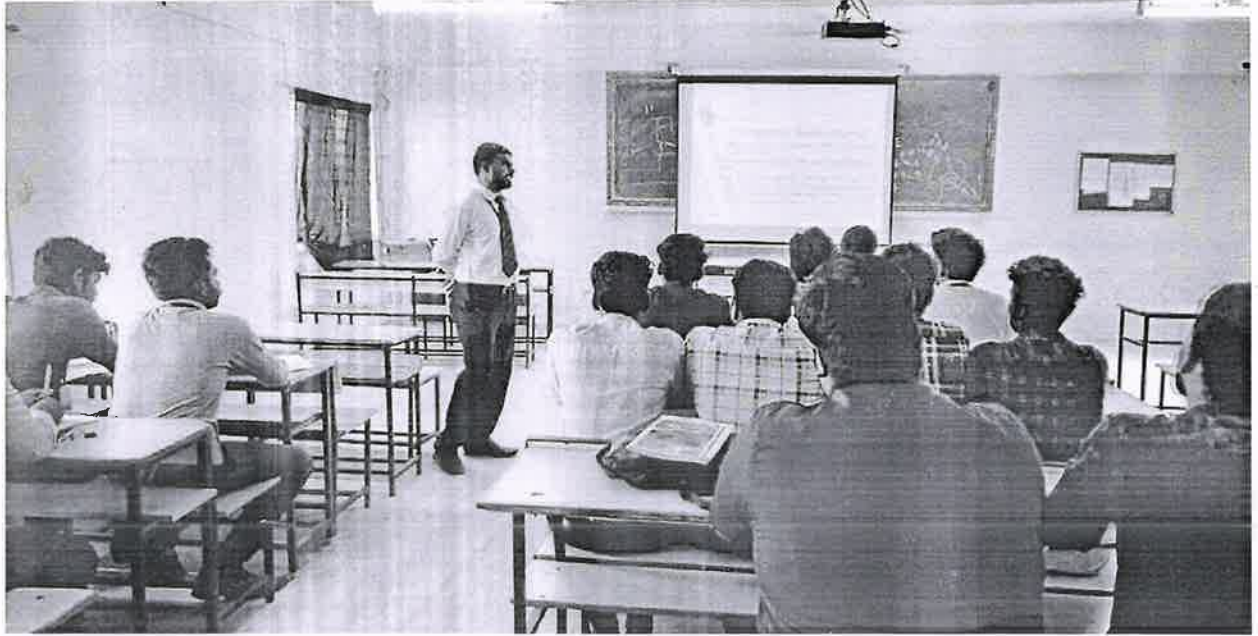
## Sustainable E-waste management

- Simple acts like donating used electronics for reuse extends the lives of valuable products.
- Proper approach of the e-waste management
- Financial sustainability of the system
- Clear and defined role of government
- Extended producer responsibility
- Advance recycling fee/ deposit refund system

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagdre - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

Event photos



**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

**E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Seminar on**  
**“E-WASTE MANAGEMENT”**

**Feedback form**

**DATE: 12.02.2019**


**Give your feedback in 1 to 5 scale 1. Very poor 2.Poor 3.Good 4.Very good 5.Excellent**

- |  |                                    |                                    |                         |                         |                         |
|--|------------------------------------|------------------------------------|-------------------------|-------------------------|-------------------------|
| 1. How much the seminar is useful for you? | <input checked="" type="radio"/> 5 | <input type="radio"/> 4            | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 2. Course Content                          | <input checked="" type="radio"/> 5 | <input type="radio"/> 4            | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 3. Interaction level of the seminar        | <input checked="" type="radio"/> 5 | <input type="radio"/> 4            | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 4. Content Delivery method                 | <input checked="" type="radio"/> 5 | <input type="radio"/> 4            | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 5. Whether all your queries are answered   | <input checked="" type="radio"/> 5 | <input type="radio"/> 4            | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 6. How the difficult points are handled    | <input type="radio"/> 5            | <input checked="" type="radio"/> 4 | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |
| 7. Hospitality and facility provided       | <input checked="" type="radio"/> 5 | <input type="radio"/> 4            | <input type="radio"/> 3 | <input type="radio"/> 2 | <input type="radio"/> 1 |

Any other points ..... NIL .....

.....  
.....

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

  
Signature of the faculty





# E.G.S PILLAY ENGINEERING COLLEGE (AUTONOMOUS)



**NAGAPATTINAM - 611002**

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Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai

Two days workshop on



**E-Waste Management**

Organized by

**Department of Electrical & Electronics Engineering**



**Certificate**



This is to certify that ~~Mr.~~ Ms. / Mrs. K. NAGALAKSHMI

of IT DEPT has attended two days workshop on "E-Waste Management" on  
11<sup>th</sup> & 12<sup>th</sup> February 2019.



**CONVENER**

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**PRINCIPAL**





# E.G.S PILLAY ENGINEERING COLLEGE (AUTONOMOUS)



**NAGAPATTINAM - 611002**

Accredited by NAAC with 'A' Grade | Accredited by NBA (EE, MECH, CSE)  
Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai

Two days workshop on



**E-Waste Management**

Organized by

**Department of Electrical & Electronics Engineering**



**Certificate**



This is to certify that Mr. / Ms. / Mrs. D. Devarajan

of ECE DEPT has attended two days workshop on "E-Waste Management" on  
11<sup>th</sup> & 12<sup>th</sup> February 2019.

[Signature]

**CONVENER**

[Signature]

**PRINCIPAL**

**ATTESTED**  
[Signature]  
**Dr. S. RAMABALAN, M.E., Ph.D.**  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Pethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.





# **E.G.S. PILLAY ENGINEERING COLLEGE**

(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Nagore Post, Nagapattinam – 611 002, Tamilnadu.



## **DEPARTMENT OF CIVIL ENGINEERING**



### **Precious Enlightening Association of Civil Engineering (PEACE)**

Organized

### **One Day Program on Enhancing Laboratory Skills**

24/12/2019

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



# E.G.S. PILLAY ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Nagore Post, Nagapattinam – 611 002, Tamilnadu.



## DEPARTMENT OF CIVIL ENGINEERING

### One Day Program on Enhancing Laboratory Skills

SL.NO	CONTENTS
1	Vision, Mission, PEO, PSO AND PO Statements
2	Summary of the Event
3	Approval Letters & Circulars
4	Invitation & Agenda
5	Participants Name List & Attendance
7	Sample Photos
8	Feedback Forms
9	Certificate

ATTESTED

  
**Dr. S. RAMABALAN**, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



# E.G.S. PILLAY ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Nagore Post, Nagapattinam – 611 002, Tamilnadu.



## DEPARTMENT OF CIVIL ENGINEERING

### DEPARTMENT VISION

To evolve as a Centre of excellence by imparting quality technical education and promote research to meet the emerging challenges in the field of Civil Engineering.

### DEPARTMENT MISSION

The Civil Engineering department is committed to

- M1:** Provide quality education through innovative teaching and learning practices.
- M2:** Encourage faculty and students to pursue higher education and carry out socially relevant innovative research thereby establishing centers of excellence in emerging areas of research.
- M3:** Offer consultancy services using state-of-the-art facilities fulfilling the needs of industry and society.
- M4:** Enable our students and faculty to play leadership roles in a sustainable manner by adopting professional ethics, entrepreneurship activities, interpersonal skills and a lifelong learning attitude.

### PROGRAMME EDUCATIONAL OBJECTIVES (PEO's)

After successful completion of the programme, Graduates will be able to

- PEO1:** Become a successful Civil Engineer to meet the demand-driven needs in the field of Civil Engineering and related profession or pursue higher study and research or become an entrepreneur.
- PEO2:** Develop core competence by analyzing and design of Civil engineering systems with social awareness and responsibilities.
- PEO3:** Build professionalism, ethical approach, communication skills, and teamwork in their profession and adapt to modern trends by engaging in lifelong learning.

ATTESTED

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

### **PROGRAMME OUTCOMES (POs):**

After successful completion of the programme, Graduates will be able to

- PO1** Application knowledge of mathematics, science, engineering fundamentals
- PO2** Problem Analysis.
- PO3** Design and Development of Solutions
- PO4** Conduct investigations by designing experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions
- PO5** Modern Tool Usage
- PO6** Assessing societal, health, safety, legal and cultural issues
- PO7** Examining Environmental impact and Sustainability
- PO8** Commitment to professional ethics.
- PO9** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings
- PO10** Communicate effectively at oral, written, and presentation level
- PO11** Examine Project Management and Financial aspects
- PO12** Instil Life-long Learning

### **PROGRAMME SPECIFIC OUTCOMES (PSOs):**

After successful completion of the programme, students will be able to

**PSO1:** Analyze the effects of natural calamities like Tsunami, storms, earthquakes, landslides etc. in design of stable structures.

**PSO2:** Use eco-friendly materials and mechanisms for sustainable and life-line infrastructures.

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**



# E.G.S. PILLAY ENGINEERING COLLEGE

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## DEPARTMENT OF CIVIL ENGINEERING

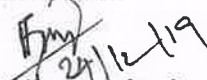
### One Day Program on Enhancing Laboratory Skills

#### REPORT

The One Day Program on **Enhancing Laboratory Skills** has been conducted for our Non-teaching Faculties and is organized by PEACE association, Department of Civil Engineering, E.G.S. Pillay Engineering College, Nagapattinam. The program was conducted on 24/12/2019. The Program was inaugurated with the welcome address by the event coordinator **Mr.T.Adhavanathan, AP/Civil**.

Our Head of the Department, **Dr.R.Sivakumar, M.E.,Ph.D.**, gives the special address of the Trainer. **Mr. G.NATARAJAN, Assistant Manager – service, Systronics, Chennai**, gave a special keynote address and started his session. The participants learned about the handling and maintenance of various equipment. Finally, the session ended with a vote of thanks by **Mr.G.Prakash, AP/Civil**.

Coordinators

  
(T.Adhavanathan)

HoD

  
(Dr.R.Sivakumar)

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**Requisition Letter**

17/12/2019

From

T.Adhavanathan  
AP/Civil,  
E.G.S. Pillay Engineering College,  
Nagapattinam.

To

The Principal,  
E.G.S. Pillay Engineering College,  
Nagapattinam.

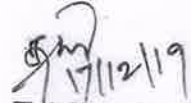
Respected Sir,

Sub: Requisition for permission to conduct training program – Reg

We have a plan to organize a one-day training program on “Enhancing Laboratory Skills” through our PEACE association, Department of Civil Engineering on 24/12/2019. This will be very useful for non-teaching staff to understand the handling and maintenance of equipment in the laboratory. Hence, I request you to kindly permit to conduct the training program.

Thanking you,

Yours faithfully

  
17/12/19  
T. Adhavanathan

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.





**E.G.S. PILLAY ENGINEERING COLLEGE**  
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**DEPARTMENT OF CIVIL ENGINEERING**

Date: 23/12/2019

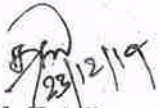
CIRCULAR

Training Program on

**Enhancing Laboratory Skills**

We cordially invite you that we are organizing one day Training Program on “Enhancing Laboratory Skills” dated 24/12/2019, to enhance the knowledge. So, all are asked to participate and make the program a success in grant manner.

Coordinator

  
(Mr. F. Adhavanathan)

  
23/12/19

(Dr. R. Sivakumar)

Copy to: Principal.

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



# E.G.S. PILLAY ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Nagore Post, Nagapattinam – 611 002, Tamilnadu.



## DEPARTMENT OF CIVIL ENGINEERING

### Training Program on

### Enhancing Laboratory Skills

#### Program Schedule

Session	Event
10.00 a.m. to 10.15 a.m.	<b><u>Inaugural Function:</u></b> <i>Welcome address:</i> <b>T.Adhavanathan</b> Ap/Civil. <i>Speaker address:</i> <b>Dr.R.Sivakumar,</b> Prof & Head, Civil
10.15 a.m. to 10.30 a.m.	<b>Tea Break</b>
10.30 a.m. to 1.00 p.m.	<b><u>Hands on Training</u></b> <b>Mr. G.NATARAJAN,</b> Assistant Manager – service, 146/8, 2nd Floor, Millenium Towers, (Nr. Mehta Bus Stop), Nelson Manickam Road, Chennai - 600029 Tamil Nadu (India) Phone : 044-23745360 Fax : 044-23744883 Email : syschennai@systronicsindia.com
1.00 p.m. to 2.00 p.m.	<b>Lunch Break</b>
2.00 p.m. to 4.00 p.m.	<b><u>Hands on Training</u></b> <b>Mr. G.NATARAJAN</b>
4.00 p.m. to 4.15 p.m.	<b><u>Vote of thanks:</u></b> <b>Mr.G.Prakash,</b> AP/Civil.

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**Bio of Mr. G.NATARAJAN, Assistant Manager – service, Systronics, Chennai**

Mr. G.NATARAJAN has 15 years of experience in the field of laboratory sales and service. Now he is the Assistant manager – Service, Systronics, Chennai.

SYSTRONICS, a leading manufacturer of Analytical and Test & Measuring instruments, was established in 1965 by Late Dr. K. Ramanathan under the guidance of Late Professor Vikram A. Sarabhai, former Chairman of Atomic Energy Commission, Government of India. Our present Chairman Shri Mohal K. Sarabhai provides strategic direction to the company.

Over Five decades of strong customer focused approach throughout the business process enabled it to attain and sustain leadership in the industry, Today, it is considered as a pioneer and benchmark in quality and service.

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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Nagore Post, Nagapattinam – 611 002, Tamilnadu.



## DEPARTMENT OF CIVIL ENGINEERING

Date: 23/12/2019


### CIRCULAR

Training Program on

### **Enhancing Laboratory Skills**

We cordially invite you that we are organizing one day Training Program on “Enhancing Laboratory Skills” dated 24/12/2019, to enhance the knowledge. So, all are asked to participate and make the program a success in grant manner.

Coordinator

  
(Mr. F. Adhavanathan)

HOD  
  
23/12/19

(Dr. R. Sivakumar)

Copy to: Principal.

ATTESTED  
  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
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Nagapattinam (Dt) Tamil Nadu.



# E.G.S. PILLAY ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Nagore Post, Nagapattinam – 611 002, Tamilnadu.



## DEPARTMENT OF CIVIL ENGINEERING

### Training Program on

### Enhancing Laboratory Skills

24/12/2019

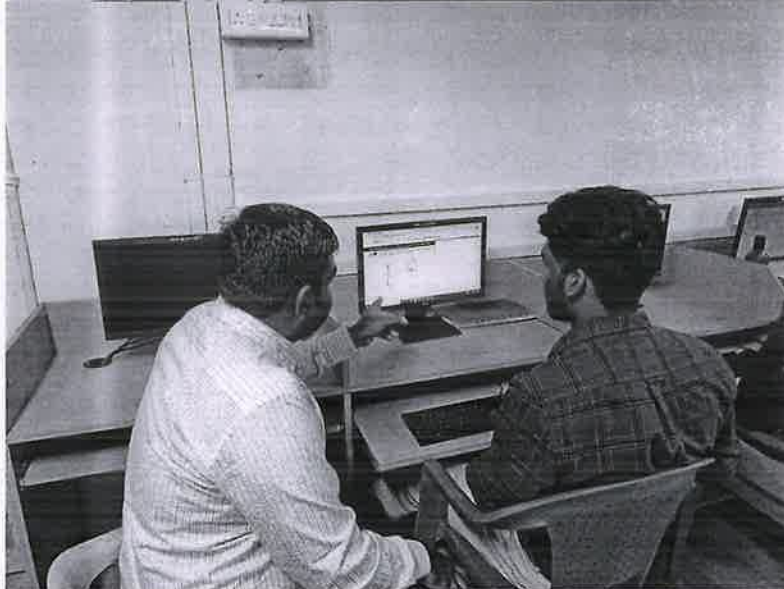
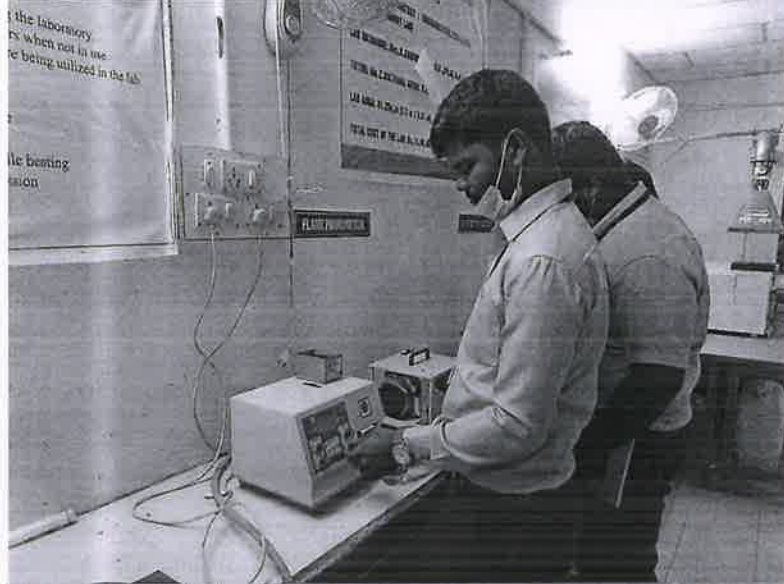
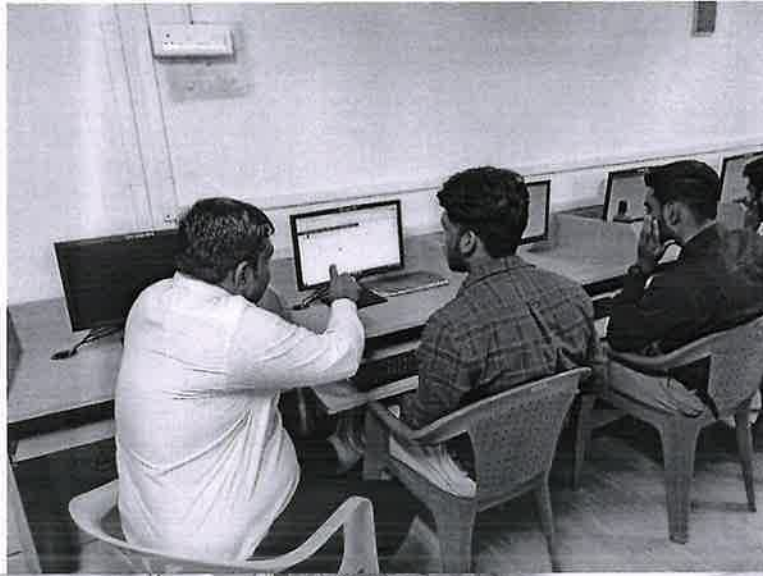
### Participants Name List

S.No	Name	Department	FN	AN
1.	V.Rajakumar	Civil		
2.	N.Prasanth	Civil		
3.	Sakthivel	Civil		
4.	Ramamoorthy	Civil		
5.	S. Sakthivel	Mechanical		
6.	S.Venkatesan	Mechanical		
7.	R.Rajasekaran	Mechanical		
8.	S.Ramamoorthy	Mechanical		
9.	V.Ramu	Mechanical		
10.	S.Joseph	Mechanical		

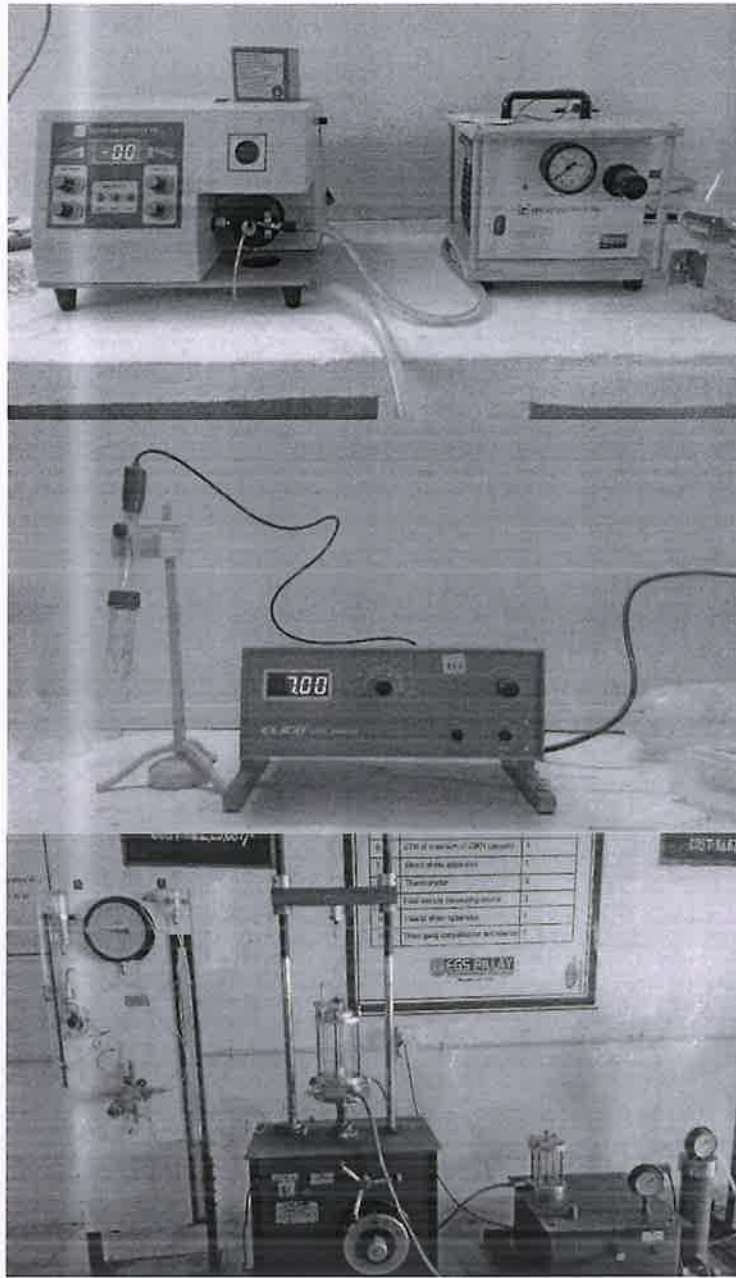
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Dr. S. RAMABALAN, M.E., Ph.D.  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**



ATTESTED

*[Signature]*  
**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

# E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM.

## FEEDBACK FORM

Name of the Department : Civil Engineering  
Nature of the event : Training Program  
Title of the Event : Enhancing Laboratory Skills  
Resource Person : Mr.G.Natarajan  
Date : 24/12/2019  
Coordinators Name : T.Adhavanathan

### Ratings have been provided on a 5-point scale

You strongly disagree with the statement - 1  
You disagree with the statement - 2  
You neither agree nor disagree with the statement - 3  
You agree with the statement - 4  
You strongly agree with the statement - 5 ✓

### About the Content of the Program

The Program content was relevant for me	5 ✓	4	3	2	1
The content of the program was very comprehensive	5	4 ✓	3	2	1
The content of the program was not repeated	5 ✓	4	3	2	1
The overall content of the program was excellent	5 ✓	4	3	2	1

### About Resource person and Presentation

The speaker had very strong expertise in areas	5	4 ✓	3	2	1
The speaker had excellent communication skills	5	4 ✓	3	2	1
The speaker made the program very interesting	5	4 ✓	3	2	1
The speaker was very well prepared for program	5 ✓	4	3	2	1

### About the Guest Lecture

The timings were very convenient	5 ✓	4	3	2	1
The pedagogy used as very appropriate	5 ✓	4	3	2	1
There were sufficient breaks in between sessions	5	4 ✓	3	2	1

### Assessment

The assessment was very suitable	5 ✓	4	3	2	1
The assessment was not at all difficult	5	4 ✓	3	2	1


This question is answered on a 10-point scale with 1 being highly unlikely to recommend and 10 being will highly recommend.

Overall Experience                      1            2            3            4            5            6            7            8            9 ✓            10

Name : S. Venkatesan

Signature : SV

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Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



# E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM.

## FEEDBACK FORM

Name of the Department : Civil Engineering  
Nature of the event : Training Program  
Title of the Event : Enhancing Laboratory Skills  
Resource Person : Mr.G.Natarajan  
Date : 24/12/2019  
Coordinators Name : T.Adhavanathan

### Ratings have been provided on a 5-point scale

You strongly disagree with the statement - 1  
You disagree with the statement - 2  
You neither agree nor disagree with the statement - 3  
You agree with the statement - 4  
You strongly agree with the statement -  5

### About the Content of the Program

The Program content was relevant for me	<input checked="" type="checkbox"/> 5	4	3	2	1
The content of the program was very comprehensive	<input checked="" type="checkbox"/> 5	4	3	2	1
The content of the program was not repeated	5	<input checked="" type="checkbox"/> 4	3	2	1
The overall content of the program was excellent	<input checked="" type="checkbox"/> 5	4	3	2	1

### About Resource person and Presentation

The speaker had very strong expertise in areas	<input checked="" type="checkbox"/> 5	4	3	2	1
The speaker had excellent communication skills	5	<input checked="" type="checkbox"/> 4	3	2	1
The speaker made the program very interesting	<input checked="" type="checkbox"/> 5	4	3	2	1
The speaker was very well prepared for program	5	<input checked="" type="checkbox"/> 4	3	2	1

### About the Guest Lecture

The timings were very convenient	<input checked="" type="checkbox"/> 5	4	3	2	1
The pedagogy used as very appropriate	<input checked="" type="checkbox"/> 5	4	3	2	1
There were sufficient breaks in between sessions	<input checked="" type="checkbox"/> 5	4	3	2	1

### Assessment

The assessment was very suitable	5	<input checked="" type="checkbox"/> 4	3	2	1
The assessment was not at all difficult	<input checked="" type="checkbox"/> 5	4	3	2	1

This question is answered on a 10-point scale with 1 being highly unlikely to recommend and 10 being will highly recommend.

Overall Experience                      1        2        3        4        5        6        7        8         9        10

Name : S. Joseph

Signature : 

ATTESTED  
  
Dr. S. RAMABALAN, M.E., P.  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

# E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM.

## FEEDBACK FORM

Name of the Department : Civil Engineering  
Nature of the event : Training Program  
Title of the Event : Enhancing Laboratory Skills  
Resource Person : Mr.G.Natarajan  
Date : 24/12/2019  
Coordinators Name : T.Adhavanathan

### Ratings have been provided on a 5-point scale

You strongly disagree with the statement - 1  
You disagree with the statement - 2  
You neither agree nor disagree with the statement - 3  
You agree with the statement - ~~4~~  
You strongly agree with the statement - 5

### About the Content of the Program

The Program content was relevant for me	<del>5</del>	4	3	2	1
The content of the program was very comprehensive	5	<del>4</del>	3	2	1
The content of the program was not repeated	<del>5</del>	4	3	2	1
The overall content of the program was excellent	5	<del>4</del>	3	2	1

### About Resource person and Presentation

The speaker had very strong expertise in areas	<del>5</del>	4	3	2	1
The speaker had excellent communication skills	<del>5</del>	4	3	2	1
The speaker made the program very interesting	5	<del>4</del>	3	2	1
The speaker was very well prepared for program	<del>5</del>	4	3	2	1

### About the Guest Lecture

The timings were very convenient	<del>5</del>	4	3	2	1
The pedagogy used as very appropriate	5	<del>4</del>	3	2	1
There were sufficient breaks in between sessions	<del>5</del>	4	3	2	1

### Assessment

The assessment was very suitable	<del>5</del>	4	3	2	1
The assessment was not at all difficult	5	<del>4</del>	3	2	1

This question is answered on a 10-point scale with 1 being highly unlikely to recommend and 10 being will highly recommend.

Overall Experience                      1            2            3            4            5            6            7            8            ~~9~~            10

Name : V. Ramu

Signature : 

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

# E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM.

## FEEDBACK FORM

**Name of the Department** : Civil Engineering  
**Nature of the event** : Training Program  
**Title of the Event** : Enhancing Laboratory Skills  
**Resource Person** : Mr.G.Natarajan  
**Date** : 24/12/2019  
**Coordinators Name** : T.Adhavanathan

Ratings have been provided on a 5-point scale

You strongly disagree with the statement	-	1
You disagree with the statement	-	2
You neither agree nor disagree with the statement	-	3
You agree with the statement	-	4
You strongly agree with the statement	-	5

About the Content of the Program

The Program content was relevant for me	5	4	3	2	1
The content of the program was very comprehensive	5	4	3	2	1
The content of the program was not repeated	5	4	3	2	1
The overall content of the program was excellent	5	4	3	2	1

About Resource person and Presentation

The speaker had very strong expertise in areas	5	4	3	2	1
The speaker had excellent communication skills	5	4	3	2	1
The speaker made the program very interesting	5	4	3	2	1
The speaker was very well prepared for program	5	4	3	2	1

About the Guest Lecture

The timings were very convenient	5	4	3	2	1
The pedagogy used as very appropriate	5	4	3	2	1
There were sufficient breaks in between sessions	5	4	3	2	1

Assessment

The assessment was very suitable	5	4	3	2	1
The assessment was not at all difficult	5	4	3	2	1

This question is answered on a 10-point scale with 1 being highly unlikely to recommend and 10 being will highly recommend.

Overall Experience      1      2      3      4      5      6      7      8      9      10

Name : R. Rajasekaran

Signature :   
24/12/19

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D**  
**PRINCIPAL**  
 E.G.S. Pillay Engineering College,  
 Thethi, Nagore - 611 002.  
 Nagapattinam (Dt) Tamil Nadu.

# E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM.

## FEEDBACK FORM

Name of the Department : Civil Engineering  
Nature of the event : Training Program  
Title of the Event : Enhancing Laboratory Skills  
Resource Person : Mr.G.Natarajan  
Date : 24/12/2019  
Coordinators Name : T.Adhavanathan

### Ratings have been provided on a 5-point scale

You strongly disagree with the statement - 1 ✗  
You disagree with the statement - 2  
You neither agree nor disagree with the statement - 3  
You agree with the statement - 4  
You strongly agree with the statement - 5 ✓

### About the Content of the Program

The Program content was relevant for me	5 ✓	4	3	2	1
The content of the program was very comprehensive	5	4 ✓	3	2	1
The content of the program was not repeated	5 ✓	4	3	2	1
The overall content of the program was excellent	5	4 ✓	3	2	1

### About Resource person and Presentation

The speaker had very strong expertise in areas	5 ✓	4	3	2	1
The speaker had excellent communication skills	5 ✓	4	3	2	1
The speaker made the program very interesting	5 ✓	4	3	2	1
The speaker was very well prepared for program	5 ✓	4	3	2	1

### About the Guest Lecture

The timings were very convenient	5	4 ✓	3	2	1
The pedagogy used as very appropriate	5 ✓	4	3	2	1
There were sufficient breaks in between sessions	5 ✓	4	3	2	1

### Assessment

The assessment was very suitable	5 ✓	4	3	2	1
The assessment was not at all difficult	5 ✓	4	3	2	1

This question is answered on a 10-point scale with 1 being highly unlikely to recommend and 10 being will highly recommend.

Overall Experience                      1            2            3            4            5            6            7            8            9            10 ✓

Name : U. Rajakumar ✓

Signature :  24/12/19

ATTESTED  
  
Dr. S. RAMABALAN, M.E. Ph.D.  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 001  
Nagapattinam (Dt) Tamil Nadu.



# CERTIFICATE

OF APPRECIATION  
PROUDLY PRESENTED TO

*V. Rajakumar*

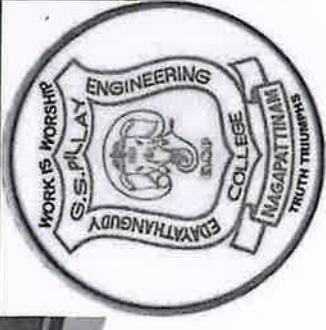
from **E.G.S.Pillay Engineering College** has attended the Training Program on **Enhancing Laboratory Skills** organized by Department of Civil Engineering, **E.G.S.Pillay Engineering College (Autonomous)**, Nagapattinam on 24<sup>th</sup> December 2019.

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL

**E.G.S. Pillay Engineering College,**  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**HOD/Civil**



# CERTIFICATE

OF APPRECIATION

PROUDLY PRESENTED TO

*Ramamoorthy*

from **E.G.S.Pillay Engineering College** has attended the Training Program on **Enhancing Laboratory Skills** organized by Department of Civil Engineering, **E.G.S.Pillay Engineering College (Autonomous)**, Nagapattinam on 24<sup>th</sup> December 2019.

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**HOD/Civil**



# CERTIFICATE

OF APPRECIATION  
PROUDLY PRESENTED TO

*V.Ramu*

from **E.G.S.Pillay Engineering College** has attended the Training Program on **Enhancing Laboratory Skills** organized by Department of Civil Engineering, **E.G.S.Pillay Engineering College (Autonomous)**, Nagapattinam on 24<sup>th</sup> December 2019.

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**

PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**HOD/Civil**



# CERTIFICATE

OF APPRECIATION  
PROUDLY PRESENTED TO

*S. Sakthivel*

from **E.G.S.Pillay Engineering College** has attended the Training Program on **Enhancing Laboratory Skills** organized by Department of Civil Engineering, **E.G.S.Pillay Engineering College (Autonomous)**, Nagapattinam on 24<sup>th</sup> December 2019.

**HOD/Civil**

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.





# CERTIFICATE

OF APPRECIATION  
PROUDLY PRESENTED TO

*S. Venkatesan*

from **E.G.S.Pillay Engineering College** has attended the Training Program on **Enhancing Laboratory Skills** organized by Department of Civil Engineering, **E.G.S.Pillay Engineering College (Autonomous)**, Nagapattinam on 24<sup>th</sup> December 2019.

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**

**PRINCIPAL**

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Thethi, Nagore - 611 002.

Nagapattinam (Dt) Tamil Nadu

**HOD/Civil**



**E.G.S. PILLAY ENGINEERING COLLEGE**  
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Nagore Post, Nagapattinam – 611 002, Tamilnadu.



## DEPARTMENT OF CIVIL ENGINEERING



### Precious Enlightening Association of Civil Engineering (PEACE)

Organized One-day Training program on

### Remote Sensing Applications for Land Resources Management

23/12/2019

ATTESTED

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

E.G.S. Pillay Engineering College,  
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Nagapattinam (Dt) Tamil Nadu.



# E.G.S. PILLAY ENGINEERING COLLEGE

(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Nagore Post, Nagapattinam – 611 002, Tamilnadu.



## DEPARTMENT OF CIVIL ENGINEERING

SL.NO	CONTENTS
1	Vision, Mission, PEO, PSO AND PO Statements
2	Summary of the Event
3	Approval Letters & Circulars
4	Invitation & Agenda
5	Participants Name List & Attendance
7	Sample Photos
8	Feedback Forms
9	Certificate

ATTESTED

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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**E.G.S. PILLAY ENGINEERING COLLEGE**  
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Nagore Post, Nagapattinam – 611 002, Tamilnadu.



**DEPARTMENT OF CIVIL ENGINEERING**

**DEPARTMENT VISION**

To evolve as a Centre of excellence by imparting quality technical education and promote research to meet the emerging challenges in the field of Civil Engineering.

**DEPARTMENT MISSION**

The Civil Engineering department is committed to

- M1:** Provide quality education through innovative teaching and learning practices.
- M2:** Encourage faculty and students to pursue higher education and carry out socially relevant innovative research thereby establishing centers of excellence in emerging areas of research.
- M3:** Offer consultancy services using state-of-the-art facilities fulfilling the needs of the industry and society.
- M4:** Enable our students and faculty to play leadership roles in a sustainable manner by adopting professional ethics, entrepreneurship activities, interpersonal skills and a lifelong learning attitude.

**PROGRAMME EDUCATIONAL OBJECTIVES (PEO's)**

After successful completion of the programme, Graduates will be able to

- PEO1:** Become a successful Civil Engineer to meet the demand-driven needs in the field of Civil Engineering and related profession or pursue higher study and research or become an entrepreneur.
- PEO2:** Develop core competence by analyzing and design of Civil engineering systems with social awareness and responsibilities.
- PEO3:** Build professionalism, ethical approach, communication skills, and teamwork in their profession and adapt to modern trends by engaging in lifelong learning.

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

### **PROGRAMME OUTCOMES (POs):**

After successful completion of the programme, Graduates will be able to

- PO1** Application knowledge of mathematics, science, engineering fundamentals
- PO2** Problem Analysis.
- PO3** Design and Development of Solutions
- PO4** Conduct investigations by designing experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions
- PO5** Modern Tool Usage
- PO6** Assessing societal, health, safety, legal and cultural issues
- PO7** Examining Environmental impact and Sustainability
- PO8** Commitment to professional ethics.
- PO9** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings
- PO10** Communicate effectively at oral, written, and presentation level
- PO11** Examine Project Management and Financial aspects
- PO12** Instil Life-long Learning

### **PROGRAMME SPECIFIC OUTCOMES (PSOs):**

After successful completion of the programme, students will be able to

**PSO1:** Analyze the effects of natural calamities like Tsunami, storms, earthquakes, landslides etc. in design of stable structures.

**PSO2:** Use eco-friendly materials and mechanisms for sustainable and life-line infrastructures.

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

16/12/2019

From

Dr.R.Elliss Yogesh  
Associate Professor/Civil  
E.G.S. Pillay Engineering College,  
Nagapattinam.

To

The Principal  
E.G.S. Pillay Engineering College,  
Nagapattinam.

*[Handwritten signature]*  
16/12/19

Through

HOD/Civil  
E.G.S. Pillay Engineering College,  
Nagapattinam.

Respected Sir,

Sub: Requisition for permission to conduct one day training program – Reg

We, Department of Civil Engineering, planned to organize a one-day training program on “Remote Sensing Applications for Land Resources Management” dated on 23/12/2019. Hence, we request you to give us permission to conduct the one-day training program and provide your support for the successful completion of the event.

Thanking you,

Yours truly

*[Handwritten signature]*  
16/12/19  
(Dr.R.Elliss Yogesh)

*Recommendation  
forwarded to  
Principal*  
*[Handwritten signature]*  
16.12.19.

ATTESTED

*[Handwritten signature]*  
Dr. S. RAMABALAN, M.E., Ph.D.  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.



**E.G.S. PILLAY ENGINEERING COLLEGE**  
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Nagore Post, Nagapattinam – 611 002, Tamilnadu.




## DEPARTMENT OF CIVIL ENGINEERING

### Organized One-day Training program on “Remote Sensing Applications for Land Resources Management”


#### REPORT

One-day Training program on “Remote Sensing Applications for Land Resources Management” has been conducted for our faculties is organized by PEACE association, Department of Civil Engineering, E.G.S. Pillay Engineering College, Nagapattinam. The program was conducted on 23<sup>rd</sup> December 2019. Our senior faculty Dr.V.Sekaran Prof/Civil, welcomes the Resource person for the One-day Training Program on “Remote Sensing Applications for Land Resources Management”. Our Head of the Department, Dr.R.Sivakumar, M.E., Ph.D., introduced the Resource person to the participants. Our Resource person gave a special keynote address and started his session. The participants learned in detail about “Remote Sensing Applications for Land Resources Management”. Finally, the session ended with a vote of thanks by the event coordinator Dr.R.EllissYogesh, AP/Civil.

Coordinators

  
23/12/19  
(Dr.R.EllissYogesh)

HoD

  
23/12/19  
(Dr.R.Sivakumar)

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



## **E.G.S. PILLAY ENGINEERING COLLEGE**

(An Autonomous Institution, Affiliated to Anna University, Chennai)  
Nagore Post, Nagapattinam – 611 002, Tamilnadu.



### **DEPARTMENT OF CIVIL ENGINEERING**

Date: 20/12/2019

#### **CIRCULAR**


### **Organized One-day Training program on “Remote Sensing Applications for Land Resources Management”**

We cordially invite you that we are organizing one day Online Webinar on “Climate Change and their Impacts” dated 23/12/2019, to enhance the knowledge on Standards. So, all are asked to participate and make the program a success in grant manner.

Coordinator

  
(Dr.R.Elliss/Yogesh)

HoD

  
(Dr.R.Sivakumar)

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

Copy to: Principal.





**E.G.S. PILLAY ENGINEERING COLLEGE**  
**(An Autonomous Institution) Nagapattinam**  
**Department of Civil Engineering**  
**Organizing**  
**One-day Training Program on**

**Remote Sensing**  
**Applications for Land**  
**Resources Management**

23, December 2019  
10 a.m. to 01.15 p.m.  
@ Civil Seminar Hall

**Resource Person:**  
**Mr.M.Pragadeesh Kumar**  
**Junior Research Fellow**  
**NIRDPR**  
**Hyderabad**



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**DEPARTMENT OF CIVIL ENGINEERING**

Organized One-day Training program on  
“Remote Sensing Applications for Land Resources Management”

Program Schedule

Session	Event
10.00 a.m. to 10.15 a.m.	<b><u>Inaugural Function:</u></b> <i>Welcome address: Dr.V.Sekaran Prof/ Civil</i> <i>Speaker address: Dr.R.Sivakumar, Prof &amp; Head, Civil</i>
10.15 a.m. to 10.30 a.m.	Tea Break
10.30 a.m. to 1.00 p.m.	<b><u>Resource Person:</u></b> <b>Mr.M.Pragadeesh Kumar</b> Junior Research Fellow NIRDPR Hyderabad
1.00 p.m. to 1.15 p.m.	<b><u>Vote of Thanks: Dr.R.EllissYogesh, Assoc. Prof/Civil.</u></b>

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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

# M PRAGADEESH KUMAR-

S/o Murugesan c  
No 9, kudavasal road,  
Mappillaikuppam,  
Nannilam (PO),  
Thiruvarur (DT) – 610105.  
Mail ID: [pragadeeshkumar7@gmail.com](mailto:pragadeeshkumar7@gmail.com)  
Mobile no: +91 7010065040



## PROFESSIONAL OBJECTIVE

To obtain challenging and rewarding full time position in the organization with growth and learning opportunities in supportive, challenging work environment that would take advantage of my job experience.

## WORK EXPERIENCE

1. Organization name: National Institute of Rural Development and panchayat Raj (NIRDPR).
  - a. Present Designation: Junior Research Fellow,
  - b. Duration: 2 Months (Jan 2019 – Till now)
2. Company name: Tata Consultant Services (TCS), Chennai
  - a. Designation: GIS Engineer (Team member in Proof of concept)
  - b. Duration: 6 Months (Aug 2018-Jan2019)
3. Company name: Kumar Industries, Tiruchirappalli
  - a. Designation: SITE Engineer
  - b. Duration: 1.4 Years (May 2015-Aug 2016)

## EDUCATIONAL PROFILE

GATE scorecard in Geomatics Engineering (GE) – 301 (639 Rank in all India Level)

COURSE	INSTITUTION	YEAR OF PASSING	PERCENTAGE
M.E(Remote Sensing &GIS)	College of Engineering, Guindy, Chennai.	2018	8.37 CGPA
B.E(civil engineering)	K. Ramakrishnan college of technology, Trichy.	2015	8.07 CGPA
HSC	Govt boy's Higher school, Nannilam.	2011	70.7
SSLC	Govt boy's Higher school, Nannilam.	2009	92.7

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## AREA OF INTEREST

- Urban Planning and Development-Advanced Surveying
- Building Information Modelling with utility mapping
- Integration of BIM with GIS
- Construction automation and software modelling

## CO-CURRICULAR ACTIVITIES

- **Placement Coordinator**, - I was an active Coordinator to give the equal opportunity to attend the placement activities and helpful to promote the company towards placement
- Attended an **NCC camp** conducted by **NCC BATALIAN 8**, Govt men's college, Trichy.
- Attended an **NSS camp** conducted by **GBHSS**, Nannilam

## RESPONSIBILITIES

- **Project Engineer**- Deputed as a **project engineer** for detailed project report preparation (DPR), Detailed Rural Road project (DRRP) and Total Station field survey in **Andaman & Nicobar Islands**.
- **Consultant**- Worked as **Consultant in MECO Engineering** for **Adani Gas** pipe line survey and design of the Thiruvavur city gas pipe line.
- **BA-GIS**- Vectorization of **Gas & Electrical line** from drawing to real time, vectorization of **optical electrical cables** and **Electrical utility mapping** in **ARCFM**, **Smallworld GIS** platform using citrix online for **Tata consultancy service**.
- **Project Student**- Complete my project in **National Centre for coastal Research-(MoES)** campus Chennai.
- **Site Engineer**- Design and Build a residential houses and maintain the standards in execution.

## SOFTWARE SKILLS

- Certificate course in **AutoCAD, REVIT**
- Well versed in **ArcGIS, Hec-HMS, Hec-RAS, city engine, Pix4D, Erdas Imagine**

## PG-PROJECT

**Title:** FLOOD VULNERABILITY ASSESMENT USING REMOTESENSING AND GIS – M.E

**Description:** To evaluate the flood vulnerability and flood inundated mapping of different conditions based on Rainfall, Runoff and Discharge with which the capacity of the selected urban areas can be determined

## PAPER PRESENTATION

- Presented a paper on the topic "Integrated Approach of Geospatial technology for the gram panchayat development plan (TEC –2019, Hyderabad).
- Presented a paper on the topic "Experimental analysis and quality assessment of ground water- A case study (HYDRO –2019, Hyderabad).
- Presented a paper on the topic 'Disaster management using GIS' in RICET, JCT College

## ACHIEVEMENTS

- Achieved "**YOUNG SCIENTIST AWARD**" from Telangana environmental congress in **2019**.
- Presented and won the '**Best paper award**' in Hydro conference **2019**
- Achieved as a "**Best volunteer**" in **INCA-2019**.

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**DEPARTMENT OF CIVIL ENGINEERING**

Organized One-day Training program on  
“Remote Sensing Applications for Land Resources Management”


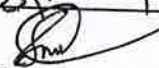
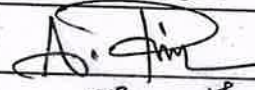
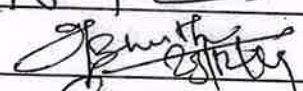
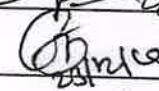
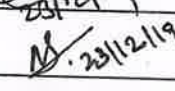
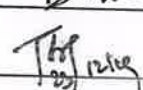
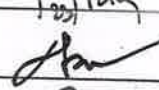
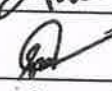
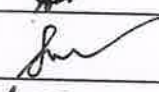
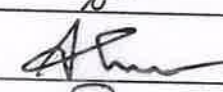
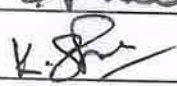
Participants Name List & Attendance

S.NO	PARTICIPANT NAME	SIGNATURE
1.	Sivakumar R	
2.	Sekaran V	
3.	Rajprasad J	
4.	EllisYogesh R	
5.	Malliga P	 23/12/2019
6.	Balasubramani V	 VSTU
7.	Arjunan A	 23/12/19
8.	Vethamoorthy N R	 23/12/19
9.	Prakash G	 23/12/19
10.	Neelaveni R	 23/12/19
11.	Subita Deeneshwari M	 23/12/19
12.	Karthika N	
13.	Kamalarani K	 23/12/19
14.	Adhavanathan T	
15.	Shyam Sundar S	
16.	Venkatesan E	
17.	Anbarasan M	
18.	Britto J	

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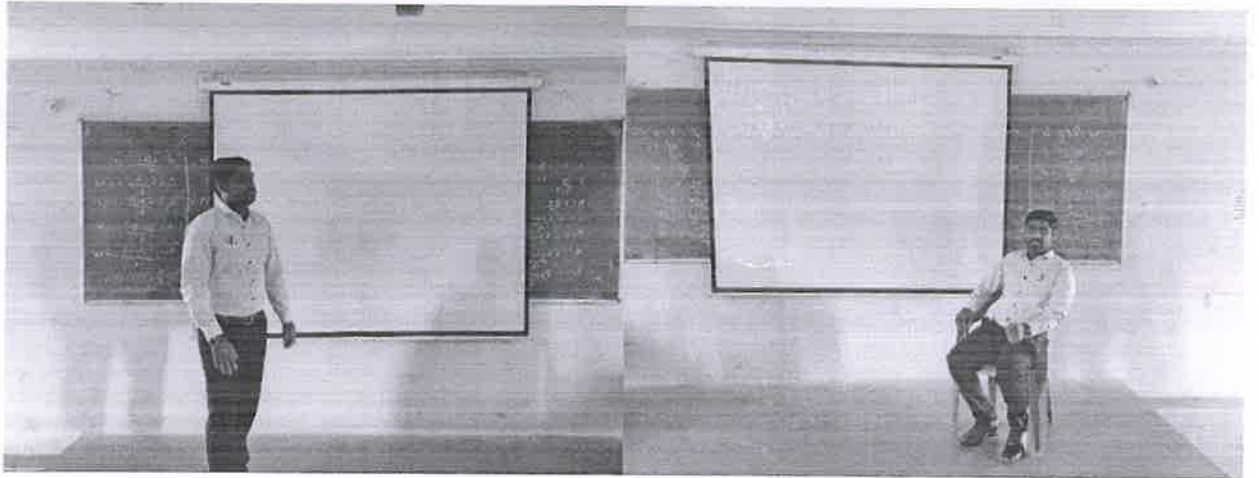
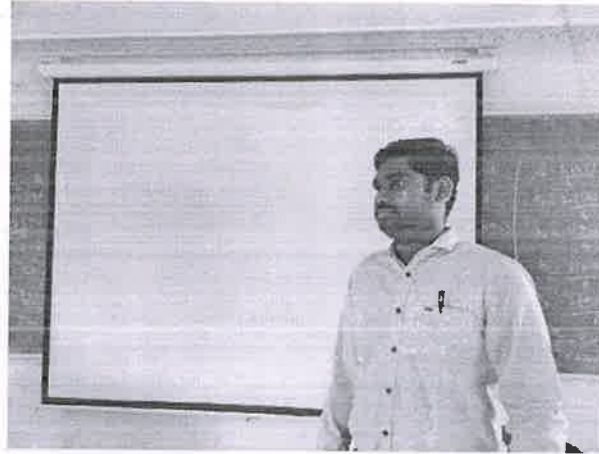
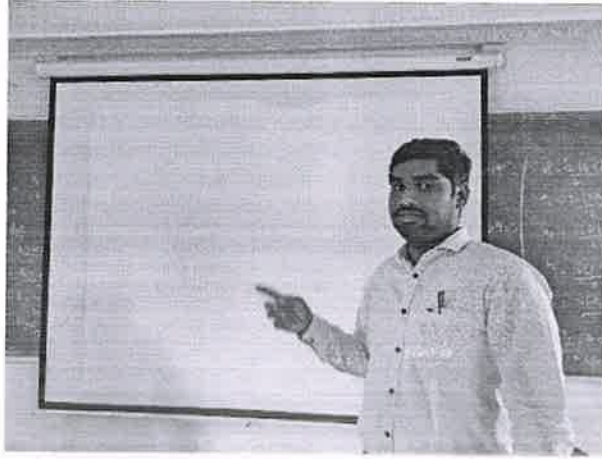
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19.	Senthamil Maran K	
20.	Srinivasan V	
21.	Pirakasam A	
22.	Bharath P	
23.	Durga G	
24.	Sasirega N	
25.	Saranya T J	
26.	Keerthi V C	
27.	Santhoshkumar S	
28.	Venkatramanan S	
29.	Aruna P	
30.	Shakila K	

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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM.

FEEDBACK FORM

Name of the Department : Civil Engineering  
Nature of the event : Training Program  
Title of the Event : Remote Sensing Applications for Land Resources Management  
Resource Person : Mr.M.Pragadeesh Kumar  
Date : 23/12/2019  
Coordinators Name : Dr.R.Elliss Yogesh

Ratings have been provided on a 5-point scale

You strongly disagree with the statement - 1  
You disagree with the statement - 2  
You neither agree nor disagree with the statement - 3  
You agree with the statement - 4  
You strongly agree with the statement - 5

About the Content of the Program

The Program content was relevant for me 5 4 3 2 1  
The content of the program was very comprehensive 5 4 3 2 1  
The content of the program was not repeated 5 4 3 2 1  
The overall content of the program was excellent 5 4 3 2 1

About Resource person and Presentation

The speaker had very strong expertise in areas 5 4 3 2 1  
The speaker had excellent communication skills 5 4 3 2 1  
The speaker made the program very interesting 5 4 3 2 1  
The speaker was very well prepared for program 5 4 3 2 1

About the Guest Lecture

The timings were very convenient 5 4 3 2 1  
The pedagogy used as very appropriate 5 4 3 2 1  
There were sufficient breaks in between sessions 5 4 3 2 1

Assessment

The assessment was very suitable 5 4 3 2 1  
The assessment was not at all difficult 5 4 3 2 1

This question is answered on a 10-point scale with 1 being highly unlikely to recommend and 10 being will highly recommend.

Overall Experience 1 2 3 4 5 6 7 8 9 10

Name : E. Venkatesh

Signature : [Signature]

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[Signature]  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 092.  
Nagapattinam (Dt) Tamil Nadu.



# E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM.

## FEEDBACK FORM

Name of the Department : Civil Engineering  
Nature of the event : Training Program  
Title of the Event : Remote Sensing Applications for Land Resources Management  
Resource Person : Mr.M.Pragadeesh Kumar  
Date : 23/12/2019  
Coordinators Name : Dr.R.Ellis Yogesh

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Overall Experience 1 2 3 4 5 6 7 8 9 10

Name : K. Shakti

Signature : K.S.

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Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

# E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM.

## FEEDBACK FORM

**Name of the Department** : Civil Engineering  
**Nature of the event** : Training Program  
**Title of the Event** : Remote Sensing Applications for Land Resources Management  
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**Coordinators Name** : Dr.R.Elliss Yogesh

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About the Content of the Program

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The content of the program was very comprehensive	5	4 ✓	3	2	1
The content of the program was not repeated	5	4 ✓	3	2	1
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About Resource person and Presentation

The speaker had very strong expertise in areas	5	4 ✓	3	2	1
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The speaker made the program very interesting	5	4 ✓	3	2	1
The speaker was very well prepared for program	5 ✓	4	3	2	1

About the Guest Lecture

The timings were very convenient	5 ✓	4	3	2	1
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There were sufficient breaks in between sessions	5	4 ✓	3	2	1

Assessment

The assessment was very suitable	5 ✓	4	3	2	1
The assessment was not at all difficult	5 ✓	4	3	2	1

This question is answered on a 10-point scale with 1 being highly unlikely to recommend and 10 being will highly recommend.

Overall Experience      1      2      3      4      5      6      7      8      9 ✓      10

Name : Babasubramaniam

Signature : VSJ

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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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Overall Experience 1 2 3 4 5 6 7 8 9 10

Name : A. PIRAKASAM

Signature : 

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The pedagogy used as very appropriate	5	4	3	2	1
There were sufficient breaks in between sessions	5	4	3	2	1

Assessment

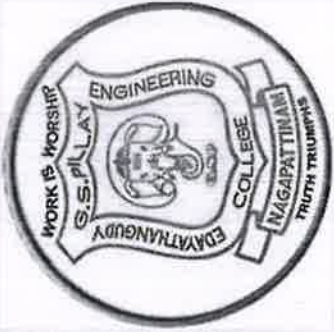
The assessment was very suitable	5	4	3	2	1
The assessment was not at all difficult	5	4	3	2	1

This question is answered on a 10-point scale with 1 being highly unlikely to recommend and 10 being will highly recommend.

Overall Experience                      1            2            3            4            5            6            7            8            9            10

Name : P. Bharath  
Signature : P. Bharath  
23/12/19

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Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



# E.G.S.Pillay Engineering College (Autonomous)

## CERTIFICATE

### OF PARTICIPATION

This is to certify that **Arjunan A, Assistant Professor, Civil Engineering,** from E.G.S.Pillay Engineering College has attended the National level webinar on **“Remote Sensing Applications for Land Resources Management”** organized by Department of Civil Engineering, E.G.S.Pillay Engineering College (Autonomous), Nagapattinam on 23-12-2019.

Coordinator

HOD

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL

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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



# E.G.S.Pillay Engineering College (Autonomous)

## CERTIFICATE

### OF PARTICIPATION

This is to certify that **Venkatesan E, Assistant Professor, Civil Engineering,** from E.G.S.Pillay Engineering College has attended the National level webinar on **“Remote Sensing Applications for Land Resources Management”** organized by Department of Civil Engineering, E.G.S.Pillay Engineering College (Autonomous), Nagapattinam on 23-12-2019.

Coordinator

HOD

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL

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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



# E.G.S.Pillay Engineering College (Autonomous)

## CERTIFICATE

### OF PARTICIPATION

This is to certify that **Srinivasan V, Assistant Professor, Civil Engineering**, from E.G.S.Pillay Engineering College has attended the National level webinar on **“Remote Sensing Applications for Land Resources Management”** organized by Department of Civil Engineering, E.G.S.Pillay Engineering College (Autonomous), Nagapattinam on 23-12-2019.

Coordinator

HOD

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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# E.G.S.Pillay Engineering College (Autonomous)

## CERTIFICATE

### OF PARTICIPATION

This is to certify that **Sasirega N, Assistant Professor, Civil Engineering,** from E.G.S.Pillay Engineering College has attended the National level webinar on **“Remote Sensing Applications for Land Resources Management”** organized by Department of Civil Engineering, E.G.S.Pillay Engineering College (Autonomous), Nagapattinam on 23-12-2019.

Coordinator

HOD

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,

PRINCIPAL

E.G.S. Pillay Engineering College,

Thethi, Nagore - 611 002.

Nagapattinam (Dt) Tamil Nadu.





# E.G.S.Pillay Engineering College (Autonomous)

## CERTIFICATE

### OF PARTICIPATION

This is to certify that **Keerthi V C, Assistant Professor, Civil Engineering,** from E.G.S.Pillay Engineering College has attended the National level webinar on **“Remote Sensing Applications for Land Resources Management”** organized by Department of Civil Engineering, E.G.S.Pillay Engineering College (Autonomous), Nagapattinam on 23-12-2019.

Coordinator

HOD

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.**  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

# **E.G.S. PILLAY ENGINEERING COLLEGE**



**NAGAPATTINAM - 611 002**  
An ISO 9001:2008 Certified Institution (Approved by AICTE, New Delhi)  
Affiliated to Anna University, Chennai  
Accredited by NAAC with "A" Grade



**DEPARTMENT OF MANAGEMENT STUDIES**

## **ONE DAY GUEST LECTURE**

**On**

### **APPLICATION OF STATISTICAL TOOLS IN MANAGEMENT RESEARCH**

**(14.09.2019)**

***Organized by***  
**DEPARTMENT OF MANAGEMENT STUDIES**

**ATTESTED**

**Dr. S. RAMAZALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt), Tamil Nadu.**

# **E.G.S. PILLAY ENGINEERING COLLEGE**



**NAGAPATTINAM - 611 002**  
An ISO 9001:2008 Certified Institution (Approved by AICTE, New Delhi)  
Affiliated to Anna University, Chennai  
Accredited by NAAC with "A" Grade



## **DEPARTMENT OF MANAGEMENT STUDIES**

# **“Application of statistical tools in Management Research”**

**ORGANIZED BY : Dr.R.Karthi, Director/ Department of Management Studies**

**SUPPORTED BY : Ms. P. Vinotha, Mr. S. Sakthi Kamal Nathan, Assistant Professors, Department of Management Studies**

**GUEST SPEAKER : MS. R. Seetha Assistant Professor/Department of S&H**

**CONDUCTED ON : 14-09-2019**

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## Contents

S. No	Description
1	Approval Letter
2	Acceptance Letter
3	Event Circular
4	Profile of Guest Speaker
5	Event Invitation
6	Participants Name List
7	Synopsis of the Event
8	Event Photos
9	Sample Feedback

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)**

**Department of management Studies**

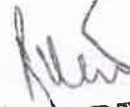
Date: 10-09-2019

**nitted to Principal**

Sub: Requesting permission for conducting on Guest Lecture- Reg

The department of MBA has planned to conduct a Guest lecture on "Application of statistical tools in management research" on 14-09-2019 kindly grant us permission to conduct the guest lecture on that particular day.

Yours faithfully



**Dr. R. KARTHI**

Director

Department of Management Studies  
E.G.S. Pillay Engineering College  
Nagapattinam - 611 002.

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.**  
**PRINCIPAL**

E.G.S. Pillay Engineering College  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

Department of management Studies

Circular

10-09-2019

This is to informed to that all faculty members, our department going to conduct Guest Lecture "Application of statistical tools in management research" on 14-09-2019 in PG 201 Hall All the faculty are requested to participate in this session.




Director/MBA

**Dr. R. KARTHI**

Director

Department of Management Studies  
E.G.S. Pillay Engineering College,  
Nagapattinam - 611 002.

ATTESTED



**Dr. S. RAMABALAN, M.E., Ph.D.**  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

## **PROGRAMME SCHEDULE**

**Welcome Address** : M. Sayee Sudha  
**Guest Speaker Profile** : P. Vinotha  
**Chief Guest Honor** : Director/MBA  
**Chief Guest & Speaker** : Ms.R.Seetha Asst.Prof/S&H  
**Vote of thanks** : Ms.A.Sowarnalakshmi

**ATTESTED**


  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## SUMMARY OF THE PROGRAMME

The event was arranged to help the faculties to expand their knowledge on application of statistical tools in management.

Ms.R.Seetha delivers the content regarding the basic statistical tools in research and data analysis. She explained about how to set hypothesis and correlate the dependent variable and independent variable. She also explained how the statistical methods involved in carrying out a study include planning, designing, collecting data, analyzing, drawing meaningful interpretation and reporting of the research findings.

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## **OBJECTIVES & OUTCOMES**

### ***LEARNING OBJECTIVES***

---

This lecture aims at developing an understanding of the application of the statistical tools in management. It aims at providing an in-depth knowledge of the statistical analysis in research. Specifically, the course aims to

1. Motivate the students an essential interest in statistical thinking.
2. Instill the belief that Statistics is important for scientific research.
3. Provide a foundation and motivation for exposure to statistical ideas subsequent to the course.

### ***LEARNING OUTCOMES***

---

Student Learning Outcomes: On the successful completion of this course the student will be able to:

Distinguish between types of data

- Assess which methods for summarizing a data set are most appropriate to highlight interesting features of the data.
- Identify the features that describe a data distribution.
- Use an appropriate software tool for data summary and exploratory data analysis.

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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## SPEAKER PROFILE

### CO-CURRICULAR ACTIVITIES

Name : Ms. R.SEETHA  
Qualification : M.Sc., M.Phil., B.ED., SET.  
Date of Birth : 26.09.1982  
Name of the Institute : EGS Pillay Engineering College (Autonomous)  
Address : 13, Valangaiman Road-Ohai, Kodavasal-612601  
Thiruvarur Dt.  
Telephone : 9944886795  
Email : seetha@egspec.org

Degree & Discipline	Institute & University	Year
M.Phil., Mathematics	Periyar University, Salem.	2006 -2007
M.Sc., Mathematics	Government arts college Autonomous, Kumbakonam	2004- 2006
B.Sc., Mathematics	Government college for women, Kumbakonam.	2001-2004

**Professional Experience:** 11 years 6 months.

Institution	Position	From - To (Date)
E.G.S.Pillay Engineering College (Autonomous)	Assistant Professor	03.08.2015 to Till-date
Arasu Engineering College, Kumbakonam	Assistant Professor	24.06.2013 to 31.05.2015
<i>M.A.M College of Engineering, Trichy</i>	Assistant Professor	16.12.2010 to 28.05.2013
<i>Srinivasan Engineering College, Perambalur</i>	Lecturer	02.07.2009 to 14.12.2010
<i>Idhaya College for women, Kumbakonam</i>	Lecturer	03.07.2006 to 30.06.2009

### Honours /Awards:

- ✓ Qualified **State Eligibility Test for Assistant Professor** (TNSET, APR-2017)
- ✓ Recipient of **First Rank** in M.Sc. Degree Examination.
- ✓ Recipient of **Fourteenth Rank** in B.Sc. Degree Examination.

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Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thattai, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

- ✓ Recipient of **100% result award**.

**Membership of professional bodies:**

- ✓ Life Member of Indian Society for Technical Education

**Training / Workshop:**

Training / Workshop	Duration	Institute
Workshop on Research Methodology and Funding Opportunities	24 Jun 2017	E.G.S Pillay Engineering College, Nagapattinam
Workshop on Autonomous Process	04 Jun 2017	E.G.S Pillay Engineering College, Nagapattinam
Faculty Development Training Programme on TPDE	17-23 May 2017	Centre for Faculty Development, Anna University, Chennai
Faculty Development Training Programme on PQT	15-21 Dec 2016	Centre for Faculty Development, Anna University, Chennai
Practicum on Fortification of Communicative Proficiency	12-14 May 2014	Department of Science and Humanities, E.G.S Pillay Engineering College, Nagapattinam
Mission10X Workshop	24-27 May 2011	Wipro on M.A.M College of Engineering, Trichy
Workshop on High Impact Teaching Skills	23 May 2011	Wipro on M.A.M College of Engineering, Trichy
Faculty Development Training Programme on Mind Management & Adolescent Psychology	16 Dec 2010	Department of Management studies, M.A.M College of Engineering & Technology, Trichy
National seminar on Mathematical Modelling in Health Care	28,29 Mar 2008	UGC sponsored Ramanujam Research Centre, Gov. Arts College, Kumbakonam
Orientation Course	01-28 Nov 2007	UGC sponsored orientation course, Bharathidasan University, Trichy

**Conference / Seminar Attended**

- ✓ Participated in One day Conference on **Application of Mathematics in Various Field** (Mar-2017) at Valivalam Desikar Polytechnic College, Nagapattinam.
- ✓ Participated in AICTE sponsored national conference on **Current Researches on Fuzzy Logic and its Applications** (June-2011) at M.A.M College of Engineering, Trichy.
- ✓ Attended AICTE sponsored Two days seminar on **IOT Platforms For Emerging Engineering Applications** (Dec-2017) at M.A.M College of Engineering, Trichy.

**Paper presentation:**

- ✓ Presented a paper in the **Insensitive are in domination of Fuzzy Graph** in National Conference on **New Insights of Mathematics** (Aug-2016) at E.G.S Pillay Arts and Science College, Nagapattinam.

ATTESTED



Dr. SRINIVASAN ANANDH, D.,  
 P. SIVAKUMAR,  
 E.G.S. Pillay Engineering College,  
 Thethi, Nagore - 611 002.  
 Nagapattinam (Dt) Tamil Nadu.

- ✓ Presented a paper **Fuzzy Logic Applications** in the National Conference on **Applied Science and Languages (NCASL) 2016** at E.G.S Pillay Engineering College, Nagapattinam.
- ✓ Presented a paper **Different Dimensional Matrices in Mathematics** in the International Conference on **Advance in Science, Mathematics and its Applications 2016** at E.G.S Pillay Engineering College, Nagapattinam.
- ✓ Presented a paper **Formulation of Fuzzy Critical Path** in the International Conference on **Advance in Science, Mathematics and its Applications 2016** at E.G.S Pillay Engineering College, Nagapattinam.
- ✓ Presented a paper **Golden Ratio** in the **National Conference on Applied Science and Languages (NCASL) 2016** at E.G.S Pillay Engineering College, Nagapattinam.

**Contributions to Innovations in Teaching:**

- ✓ Prepared a Short learning Object (SLO) and PowerPoint Presentations, computer aided teaching of different courses.
- ✓ **Organized Seminars** for fast learners.
- ✓ **Organized Orientation Programmes and Guest Lectures.**
- ✓ **Organised Anna University Approved** Faculty Development Training programme.
- ✓ Apart from lecturing, charts, models & slides were prepared and used.
- ✓ Worked as a paper setter for the subjects at E.G.S Pillay Engineering College, Nagapattinam.

ATTESTED



**DR. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## Event Invitation



**E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**  
(An Autonomous Institution)

**DEPARTMENT OF MANAGEMENT STUDIES**  
**ORGANIZE**

**25**  
Years of Excellence

**GUEST LECTURE**

**APPLICATIONS OF STATISTICAL IN MANAGEMENT REASERCH**

**14-09-2019**

**Ms. R. Neelha**

**Assistant Professor**

**Department of Mathematics**

**E.G.S. Pillay Engineering College**

**Venue: PG Hall 201**

**Time: 2.00 pm to 4.00 pm**

**Convenor**

**Dr. R. Karthi**

**Director/MBA**

**E.G.S.P.E.C**

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002,**  
**Nagapattinam (Dt) Tamil Nadu.**

**Participant List:**

S.NO	FACULTY NAME	DESIGNATION
1	Dr.R.Karthi	Director/MBA
2	Dr.S.Chandrasekar	Professor
3	Mohan kumar. R	Associate Professor
4	Dr.B.Asha Daisy	Assistant Professor
5	Mr.S.Sakthi Kamal Nathan	Assistant Professor
6	Mr.I.Arulprakash	Assistant Professor
7	Mr.S.Mohamed Naina Maricar	Assistant Professor
8	Vinotha.P	Assistant Professor
9	Aarthi.L	Assistant Professor
10	Sayee Sudha. M	Assistant Professor
11	Sowarna Lashmi.A	Assistant Professor
12	Mrs A.Umadevi	Assistant Professor
13	R. Deepa	Assistant Professor
14	A.Kavitha	Assistant Professor
15	Tharani	Assistant Professor
16	S.Malathi	Assistant Professor
17	R.Arulraj	Assistant Professor
18	A.Poonghuzhali	Assistant Professor
19	G. Rajarajan	Assistant Professor

**ATTESTED**  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPALE.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu,

14-09-2019

Attendance

S.No	Name of Faculty	Department	College Name	Designation	Signature
1.	P. Vinotha	MBA	EGSPEEC	AP	P. Vinotha
2.	R. Deepa	S&H	EGSPEEC	AP	R. Deepa
3.	S. Malathi	BBA	EGSPAC	AP	S. Malathi
4.	S. Sathya Kamal Nathan	MBA	EGSPEEC	AP	S. Sathya
5.	A. Swarna Lashmi	MBA	EGSPEEC	AP	A. Swarna Lashmi
6.	R. Mohan Kumar	MBA	EGSPEEC	AP	R. Mohan Kumar
7.	M. Sayee Sudha	MBA	EGSPEEC	AP	M. Sayee Sudha
8.	A. Umadevi	MBA	EGSPEEC	AP	A. Umadevi
9.	S. Chandrasekar	MBA	EGSPEEC	PrinP	S. Chandrasekar
10.	A. Poonghuzhal	MBA	EGSPEEC	AP	A. Poonghuzhal
11.	B. Asha Daisy	MBA	EGSPEEC	AP	B. Asha Daisy
12.	L. Anithi	MBA	EGSPEEC	AP	L. Anithi
13.	R. Arul Raj	MBA	EGSPAC	AP	R. Arul Raj
14.	G. Rajarajan	MBA	EGSPAC	AP	G. Rajarajan
15.	I. ARUL PRAKASH	MBA	EGSPEEC	AP	I. ARUL PRAKASH
16.	S. Mohammed Naina Manican	MBA	EGSPEEC	AP	S. Mohammed Naina Manican

ATTESTED

  
 Dr. S. RAMABALAN, M.E., Ph.D.,  
 PRINCIPAL

 E.G.S. Pillay Engineering College,  
 Thethi, Nagore - 611 002.  
 Nagapattinam (Dt) Tamil Nadu.

## Guest Lecture Feedback Form

We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

Title: Applications of Statistical tools in mgmt. Research.

Date: 14/09/2019 Speaker: MS- R. Sretha

1. The content was as described in publicity materials 1   2   3   4   5 ✓
2. The lecture was applicable to my job 1   2   3   4   5 ✓
3. I will recommend this lecture to other conservators 1   2   3   4 ✓   5
4. The program was well paced within the allotted time 1   2   3   4   5 ✓
5. The speaker was a good communicator 1   2   3   4   5 ✓
6. The material was presented in an organized manner 1   2   3   4   5 ✓
7. The speaker was knowledgeable on the topic 1   2   3   4   5 ✓
8. I would be interested in attending a follow-up, more lecture on this same subject 1   2   3   4   5 ✗

9. Given the topic, was this lecture:  a. Too short  b. Right length  c. Too long

10. In your opinion, was this lecture:  a. Introductory  b. Intermediate  c. Advanced

11. What did you most appreciate/enjoy/think was best about the lecture? Any suggestions for improvement?

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Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



## Guest Lecture Feedback Form

We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

Title: Application of Statistical tools in Management Research

Date: 14.09.2019 Speaker: Mr. R. Seetha

- |  |   |   |   |   |   |
|--|---|---|---|---|---|
| 1. The content was as described in publicity materials                               | 1 | 2 | 3 | 4 | 5 |
| 2. The lecture was applicable to my job  | 1 | 2 | 3 | 4 | 5 |
| 3. I will recommend this lecture to other conservators                               | 1 | 2 | 3 | 4 | 5 |
| 4. The program was well paced within the allotted time                               | 1 | 2 | 3 | 4 | 5 |
| 5. The speaker was a good communicator   | 1 | 2 | 3 | 4 | 5 |
| 6. The material was presented in an organized manner                                 | 1 | 2 | 3 | 4 | 5 |
| 7. The speaker was knowledgeable on the topic  | 1 | 2 | 3 | 4 | 5 |
| 8. I would be interested in attending a follow-up, more lecture on this same subject | 1 | 2 | 3 | 4 | 5 |

9. Given the topic, was this lecture:  a. Too short  b. Right length  c. Too long

10. In your opinion, was this lecture:  a. Introductory  b. Intermediate  c. Advanced

11. What did you most appreciate/enjoy/think was best about the lecture? Any suggestions for improvement?

I want more sessions like this.

Thank you!

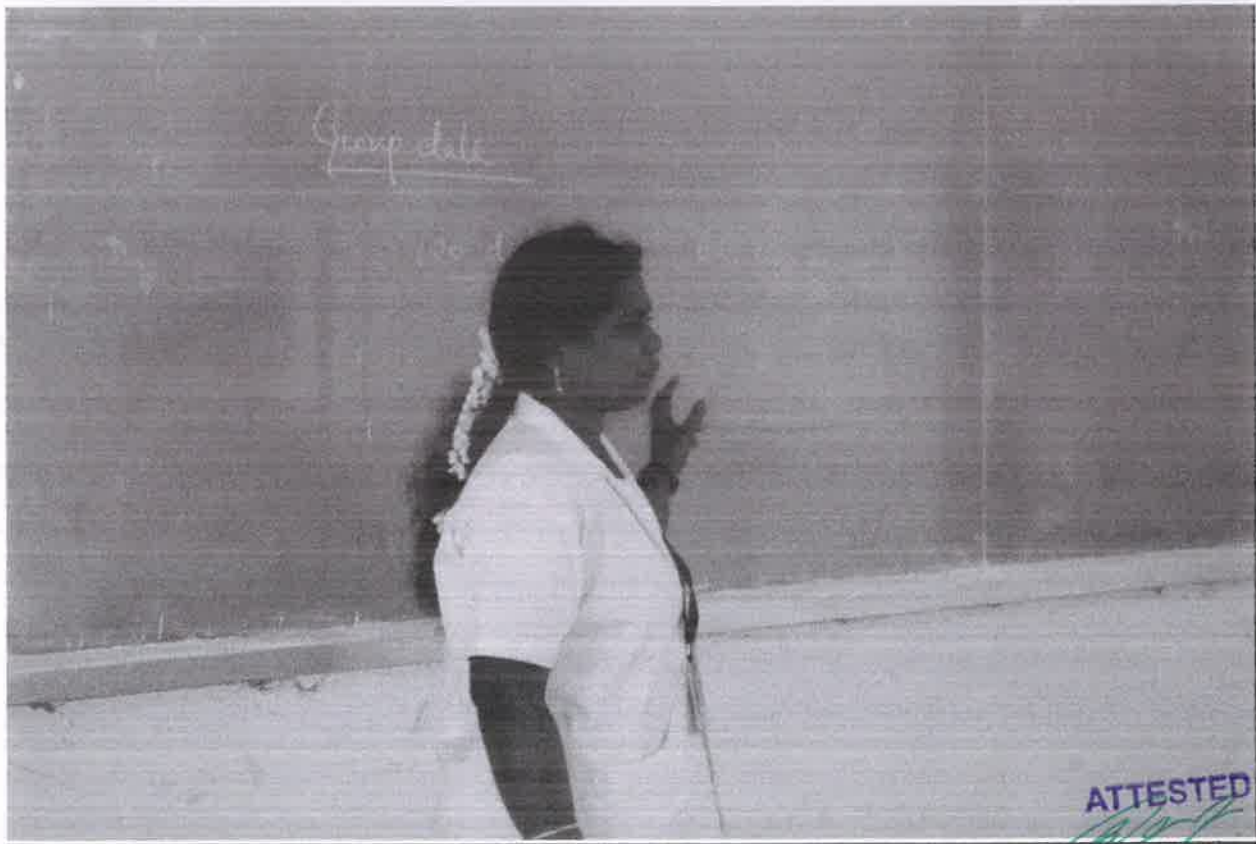
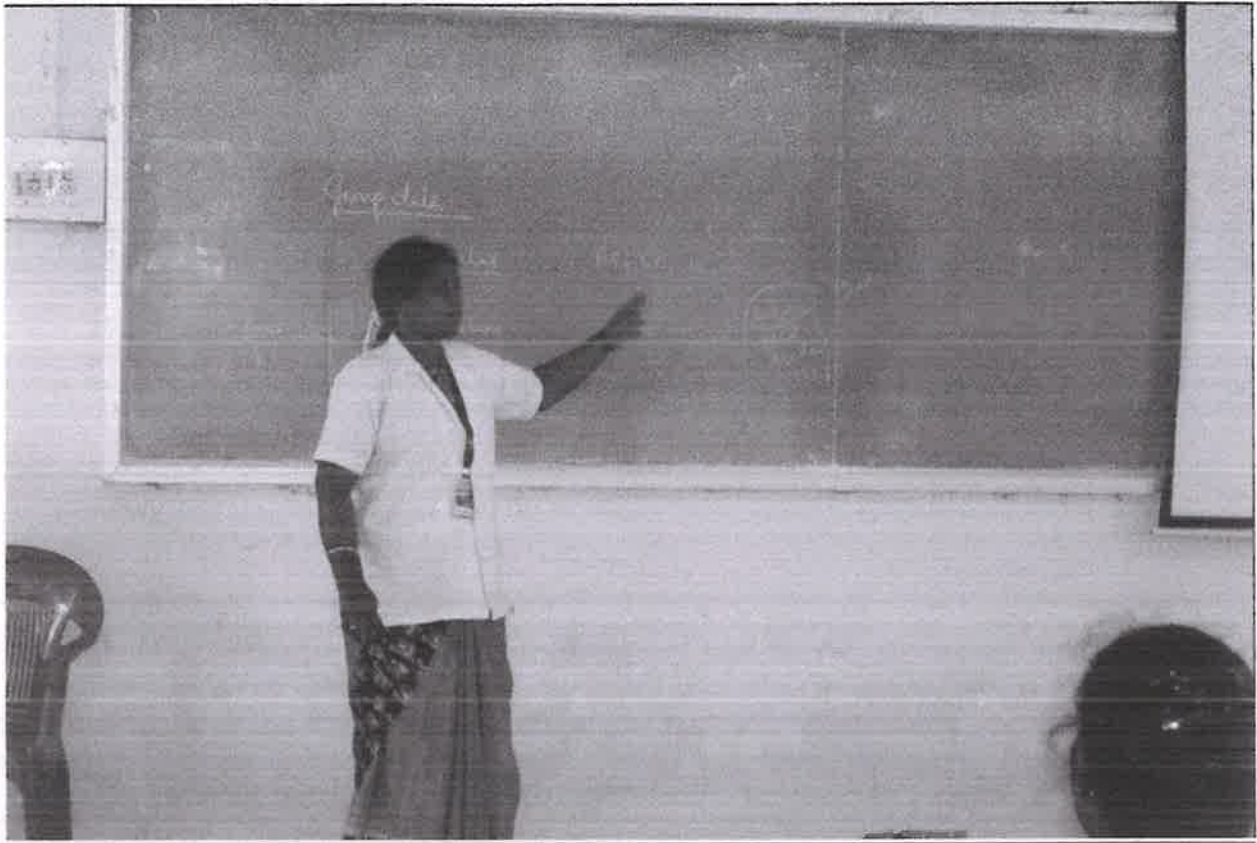
Please return this form to the coordinator at the end of

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

Event Photos



ATTESTED

*[Signature]*  
**Dr. S. RAMABALAN, M.E., Ph.D.**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thiruthi, Nagore - 611 002.  
நெடுமலை: (ஓ) தர்மி நகர்.



# E.G.S. PILLAY

## Group of Institutions

ENGINEERING | ARTS & SCIENCE | POLYTECHNIC | PHARMACY | B.ED., | INTERNATIONAL SCHOOL (CBSE)  
Nagapattinam-611 002.



# Certificate of Appreciation

*This certificate is presented to*

**Ms. R. Seetha**

**in grateful recognition and sincere appreciation for sharing her valuable time  
and knowledge as Resource Speaker during the guest lecture programme on  
Application of Statistical tools in Management Research on 14-09-2019 at  
Department of Management Studies, E.G.S. Pillay Engineering College (Autonomous)**

**Dr.R.Karthi**  
**Director/MBA**

**Nagapattinam**

**Dr.S.Ramabalan**  
**Principal**

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Tilathi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

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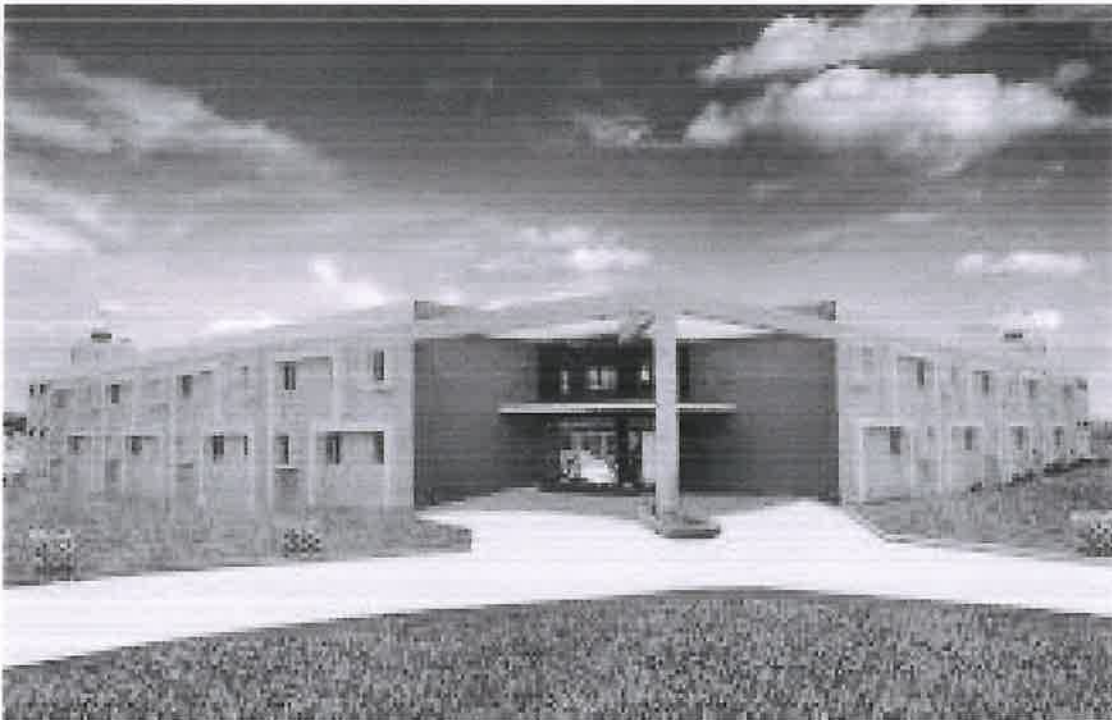
**Ph: 04365 -251112 / 251114 | E-mail:enquiries@egspec.org | Website : [WWW.egspec.org](http://WWW.egspec.org)**

**A One day Faculty Development Program**

**On**

**“Advanced Big Data and predictive Analytics”**

**13.12.2019**



**Coordinators**

- 1. Mrs. C. Mallika, Assoc.Prof /MCA**
- 2. Mrs. A.Hema, Asst.Prof/MCA**

**Convener**

**(Dr. J.Vanitha, Professor /MCA)**

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

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**Nagapattinam – 611001 Tamil Nadu India**

**Ph:04365 -251112 / 251114 | E-mail:enquiries@egspec.org | Website : [WWW.egspec.org](http://WWW.egspec.org)**

**A One day Faculty Development Program**

**On**

**“Advanced Big Data and predictive Analytics”**

**13.12.2019**

<b>S.No</b>	<b>Details</b>	<b>Page No</b>
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**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

**E.G.S.PILLAY ENGINEERING COLLEGE,[AUTONOMOUS]NAGAPATTINAM – 611002**

**Approved by AICTE,New Delhi |Affiliated to Anna University,Chennai**

**Accredited by NAAC with 'A' Grade | An ISO 9001:2015 Certified Institution**

**Nagapattinam – 611001 Tamil Nadu India**

**Ph:04365 -251112 / 251114 | E-mail:enquiries@egspec.org | Website : [WWW.egspec.org](http://WWW.egspec.org)**

## **A One day Faculty Development Program**

**On**

**“Advanced Big Data and predictive Analytics”**

**13.12.2019**

**(Venue: PG Seminar Hall; Time: 09.30 A.M)**

**Organized by**

**E.G.S. Pillay Engineering College, Nagapattinam- 611002**

**[www.egspec.org](http://www.egspec.org)**



### **ABOUT THE INSTITUTION**

E G S Pillay Engineering College is one of the pioneering non - grant engineering Colleges in the State. It was established by the E G S Pillay & Sons Educational & Charitable Trust, Nagapattinam in the year 1995 with the sanction of the Government of Tamilnadu, approval of the All India Council for Technical Education, New Delhi and affiliation to Bharathidasan University, Tiruchirapalli. Its courses are affiliated to Anna University, Chennai from 2002 and the degrees are awarded by Anna University, as per the Government Orders. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non - grant engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non-grant

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**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi Nagore - 611 002.**

engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. The college approved by AICTE-New Delhi, affiliated to Anna University-Chennai, recognized by UGC Act 2(f) &12(B) and accredited by NAAC with 'A' Grade and NBA for three Departments (B.E-CSE/EEE/MECH).

#### DEPARTMENT PROFILE

The department of computer applications focuses on making industry ready IT professionals by imparting quality computer education along with excellent interpersonal skills. It offers 3 years Full time MCA course to the students. Started in the year of 2001, the course was approved by Bharathidasan University, Trichirappalli. In 2003, Anna University, Chennai recognized and approved the course. The current intake of students is 60 per academic year.

#### THEME OF THE FDP

- ❖ To expose the faculty members, research scholars and students in state of the art technologies in the -field of Big Data Analytics.
- ❖ To explore the new opportunity in Big Data analytics.
- ❖ To learn the tools and techniques Big Data Analytics.
- ❖ To accelerate entrants to undertake industrial research projects for the development of future solutions in the domain of Data Analytics.

#### HOW TO APPLY

Prospective participants have to fill the registration form and send the scanned copy to the coordinator through the E-Mail: [egspecmcafdp19@gmail.com](mailto:egspecmcafdp19@gmail.com) before the last date (11.12.2019).

Admission to the FDP will be on First Come, First Served basis.

#### NO REGISTRATION FEES

Registration kit, Certificate and lunch will be provided to all the Participants.

#### TARGET GROUP

The FDP is intended to provide opportunity to Faculty Members of Engineering/ Arts & Science / Polytechnic, Research Scholars and Students to upgrade their knowledge in Open Source Tools.

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S.PILLAY ENGINEERING COLLEGE,[AUTONOMOUS]NAGAPATTINAM – 611002**

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**Nagapattinam – 611001 Tamil Nadu India**

**Ph:04365 -251112 / 251114 | E-mail:enquiries@egspec.org | Website : [WWW.egspec.org](http://WWW.egspec.org)**

**A One day Faculty Development Program**

**On**

**“Advanced Big Data and predictive Analytics”**

**Cordially Invites you for the**

**On**

**13.12.2019**

**Resource Person**

**Dr.S.Selvamuthukumaran**

**Professor & Director, AVCCE, Mannampandal, Mayiladuthurai.**

**Organized by**

**Department of MCA**

**Will preside over the function**

Ramabalan  
Principal, EGSPEC

Mrs.J.Vanitha  
HOD /MCA

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
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### A One day Faculty Development Program

On

“Advanced Big Data and predictive Analytics”

13.12.2019

#### Registration Form

Name (In Block letters): D. SHYAMALA DEVI  
College Name & Department: ANNA COLLEGE OF ENGINEERING, APJKT  
Name: D. SHYAMALA DEVI, No.20 NADAR STREET,  
Address: NAGAPATTINAM  
Pin: 611 001  
Email: shyamala1@gmail.com  
Mobile no: 9399447663

#### Declaration

I, Shyamala Devi Agree to abide by the rules and regulation governing the Seminar. The information provided herewith is true to the best of my knowledge.

Place: Kumbakonam  
Date: 16.12.2019

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

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**A One day Faculty Development Program**

**On**

**“Advanced Big Data and predictive Analytics”**

**13.12.2019**

**AGENDA**

<b>Date</b>	<b>Time</b>	<b>Program</b>
<b>13.12.2019</b>	<b>9.30 A.M– 10.00 A.M</b>	<b>Inauguration Function</b>
	<b>10.00 A.M– 11.30 A.M</b>	<b>Session1</b>
	<b>11.30 A.M -11.45 A.M</b>	<b>Break</b>
	<b>11.45 A.M– 1.00 P.M</b>	<b>Session2</b>
	<b>1.00 P.M– 1.30 P.M</b>	<b>Lunch</b>
	<b>1.30 P.M– 3.00 P.M</b>	<b>Session3</b>
	<b>3.00 P.M – 3.15 P.M</b>	<b>Break</b>
	<b>3.15 P.M – 4.30 P.M</b>	<b>Session 4</b>
	<b>4.30P.M -5.00PM</b>	<b>Feedback</b> <b>Certificate Distribution</b> <b>Valedictory</b>

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

Nagapattinam

03.12.2019

From

Mrs.C.Mallika

Assoc. Prof./ MCA,

E.G.S.Pillay Engineering College,

Nagapattinam.

To

The Principal,

E.G.S.Pillay Engineering College,

Nagapattinam.

Thru,

Mrs.J.Vanitha,

Professor/ HOD/MCA,

E.G.S.Pillay Engineering College,

Nagapattinam


Respected Sir,

Sub: Permission to organize One Day Faculty Development Program – Reg.

Our Department is to plan to organize the Faculty Development Program on "Advanced Big Data and predictive Analytics. So, I kindly request you to give permission for organizing the One Day Faculty Development program on 13.12.2019.

Thanking you,

Yours truly,

  
[Mrs.C.Mallika]

  
3/12/19  
**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,**

**PRINCIPAL**

**E.G.S. Pillay Engineering College,**

**Thethi, Nagore - 611 002.**

**Nagapattinam (Dt) Tamil Nadu.**

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## **A One day Faculty Development Program**

**On**

**“Advanced Big Data and predictive Analytics”**

**13.12.2019**

### **Participants List**

<b>S.NO</b>	<b>Faculty Name with Designation</b>	<b>College Name</b>
1.	Mr.Srinivasan,AP/MCA	A.V.C.College of Engineering
2.	Dr.R.Kabilan,AP/MCA	Anjalai Ammal Mahalingam Engineering College
3.	Mr.Sivakumar,AP/MCA	A.V.C.College of Engineering
4.	Mr.C.Veerapraksahkumar,AP/MCA	Sri Pushpam College
5.	Mrs.G.Hemamalini,AP/MCA	Sri Pushpam College
6.	Dr.A.Suganthi,AP/MCA	A.V.C.College of Engineering
7.	Mr. S.RajeshPonnaiah,AP/S&H	SIN College of Engineering and Technology
8.	Ms.B.Sangeetha,AP/S&H	SIN College of Engineering and Technology
9.	Mr. K. Ganesan,AP/CSE	Sri Aravindar Engineering College
10.	Ms.A.Bhuvaneshwari,AP/CSE	SIN College of Engineering and Technology
11.	Mrs.Hema,AP/CSE	Arifa Institute of Technology
12.	Mr.Jayakathan,AP/CS	E.G.S.Pillay Arts and Science College
13.	Mrs.RenugaDevi,AP/CS	E.G.S.Pillay Arts and Science College

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

14.	Dr.V.Ramanathan,AP/MCA	Sri Pushpam College
15.	Mr. R. Chozha Prabhu,AP/CSE	Arifa Institute of Technology
16.	Mrs. P. Ramyadevi,AP/CSE	Arifa Institute of Technology
17.	Ms.N.Saranya,AP/CS	E.G.S.Pillay Arts and Science College
18.	Mr.R.Raja,AP/CSE	S.R.V.College of Engineering and Technology
19.	Ms.Kiruthika,AP/CSE	Parisutham Institute of Science and Technology
20.	Mr. Mohammed Haris,AP/CSE	Annai College of Engineering and Technology
21.	Mrs.D. Shyamala Devi,AP/IT	Annai College of Engineering and Technology
22.	Mrs.Helenchandra,AP/CS	E.G.S.Pillay Arts and Science College
23.	Ms.Suganya,AP/CS	E.G.S.Pillay Arts and Science College
24.	Mrs.Meerabai,AP/CS	Rabiammal Ahamed Maideen College for Women
25.	Mrs.Malathi,AP/CS	Rabiammal Ahamed Maideen College for Women

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
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## **A One day Faculty Development Program**

**On**

**“Advanced Big Data and predictive Analytics”**

**13.12.2019**

### **Resource Person Profile**

Dr.S.Selvamuthukumaran obtained Ph.D degree from Anna University Chennai, presently he is working as Professor & Director of Department of Master of Computer Application in the A.V.C.College of Engineering, Mayiladuthurai, Mannamandal, Mayiladuthurai District, Tamilnadu, India, Pin: 609305. His total teaching experience is about 24 years. As a seasoned researcher, regularly he contributes research findings in various reputed international Journals.

He has organized many Faculty Development Programmes, workshop and seminars which are sponsored by ISTE, AICTE and Anna University. Presently he is guiding 5 Ph.D scholars and guided 6 Ph.D Scholars in the field of Big Data,IOT,Cloud Computing, Service Oriented Computing, Machine learning Algorithms and Web Semantics.

He also serves as editorial board members for many international journals and conferences which are high repute for many international journals and conferences which are high repute. He is the fellow member of ISTE..He has Delieverd more than 40 Lectures in various colleges all over the Tamilnadu.

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**Dr. S. RAMABALAN, M.E., Ph.D.,  
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**A One day Faculty Development Program**

**On**

**“Advanced Big Data and predictive Analytics”**

**13.12.2019**

**Session Details**

<b>Date/ Session</b>	<b>I Session 10.00 a.m. to 11.30 a.m</b>	<b>Break</b>	<b>II Session 11.45 a.m. to 01.00 p.m</b>	<b>Break</b>	<b>III Session 01.30 p.m. to 03.00 p.m.</b>	<b>Break</b>	<b>IV Session 03.15 p.m. to 04.30 p.m.</b>
13.12.2019	Module 1: Introduction to Advanced Bigdata analytics and their platforms, Data Analytics Lifecycle		Module 2: Advanced Analytics,Classfi cation,Clustering ,Regression and corelation		Module 3: Deep Drive into Hadoop Deep Drive into Real time predictive Analytics		Module 4: Advanced Data visulization Techniques Big data challenges and Analysis driven data

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
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**A One day Faculty Development Program**

On

**“Advanced Big Data and predictive Analytics”**

13.12.2019

Name of the Participant: N. SARANYA Date: 13.12.2019  
Organization: E.G.S. PILLAY ARTS AND SCIENCE COLLEGE

	Excellent	Good	Average
1. How was the course	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. How about practical session.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. In way the faculty delivers their speech	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Over all how do you rate this function?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Most helpful information and activity (about Faculty Development Program)			

It is the most useful and helpful program for the  
college.

Participant's Signature

N. Saranya

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu,**



**E.G.S.PILLAY ENGINEERING COLLEGE,[AUTONOMOUS]NAGAPATTINAM – 611002**  
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## **A One day Faculty Development Program**

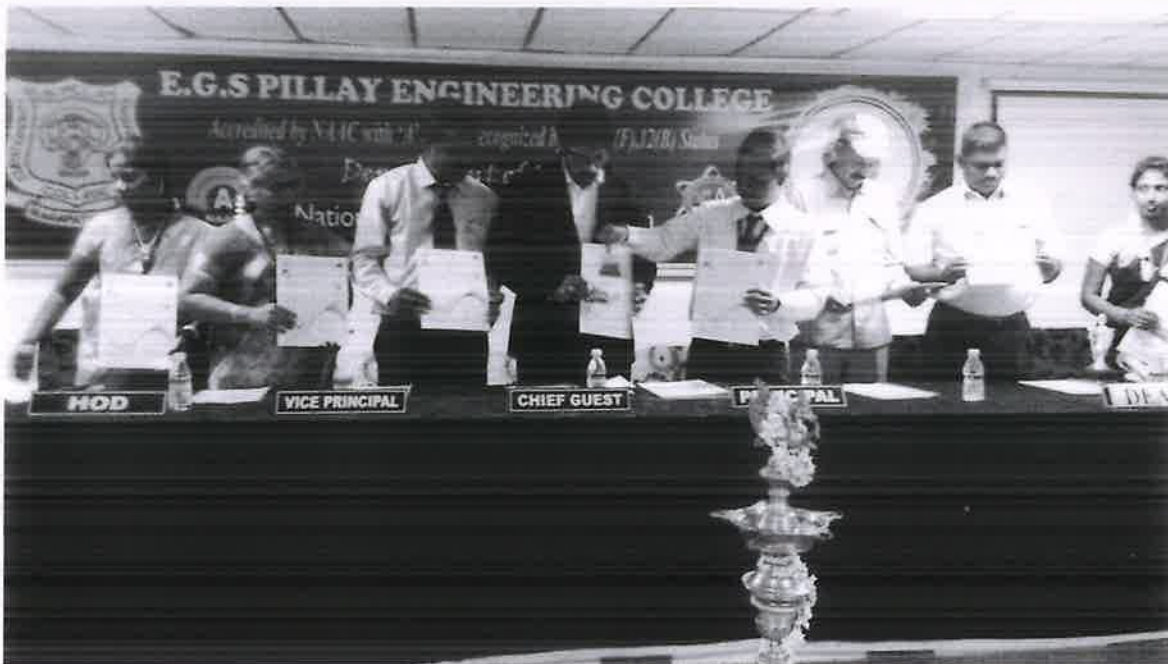
**On**

**“Advanced Big Data and predictive Analytics”**

**13.12.2019**

**Sample Photos**

**Inauguration function**



**ATTESTED**

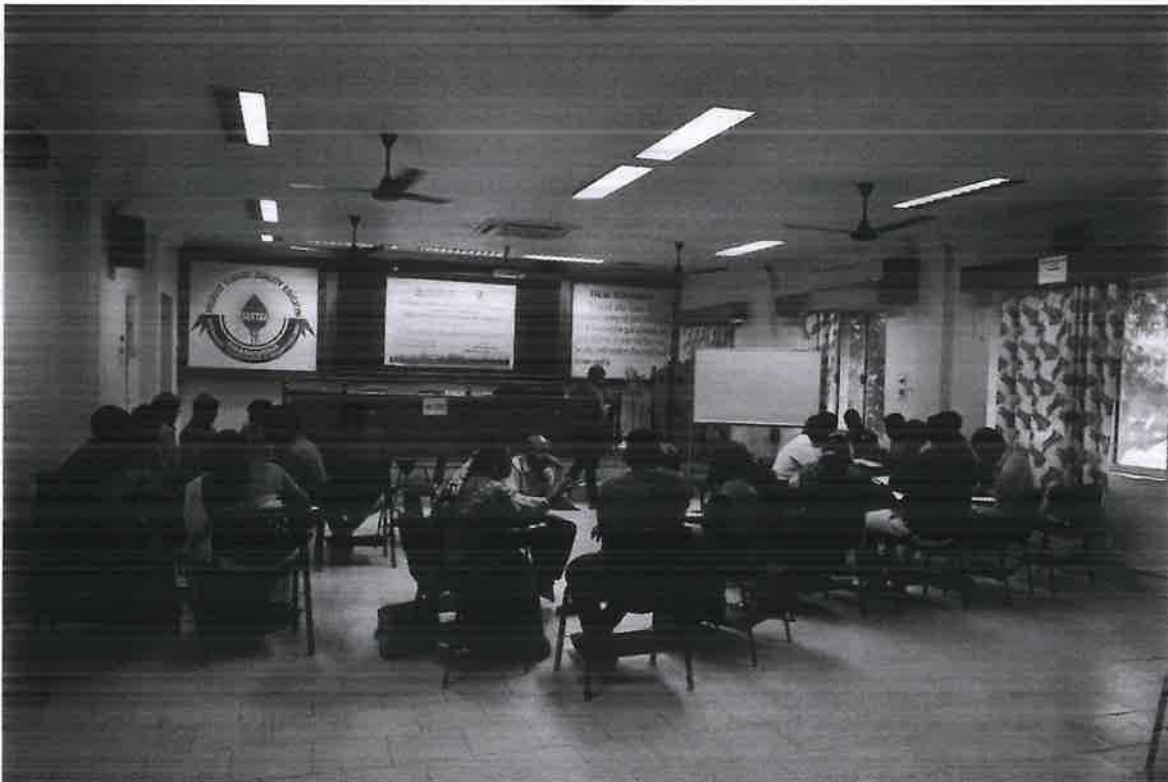
**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

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**A One day Faculty Development Program**  
**On**  
**“Advanced Big Data and predictive Analytics”**

**13.12.2019**



During session

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

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**A One day Faculty Development Program**

**On**

**“Advanced Big Data and predictive Analytics”**

**Sample Certificate**



**ATTESTED**

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PRINCIPAL**

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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

**E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATINAM**

**[AUTONOMOUS]**

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**(An ISO 9001-2015 certificated institution)**

**(Approved as Nodal Centre for Quality Improvement)**

**One day workshop**

**On**

**BASIC COMPUTER SKILL AWARENESS PROGRAM**

**DEPARTMENT OF MCA**



**19.11.2019**

**<http://www.egspec.org>**

**PHONE: 04364-25114**

**COORDINATOR(S)**

**CONVENER**

**Mrs.A.Hema, AP/MCA**

**Dr.J.Vanitha, Professor /HOD/MCA**

**Mrs.C.Mallika,Assoc.Prof/MCA**

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

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Thethi. Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

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**On**

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**19.11.2019**

**Department of MCA**

<b>S.NO</b>	<b>DETAILS</b>	<b>PAGE.NO</b>
1.	Agenda	1
2.	Permission letter	2
3.	Invitation	3
4.	circular	4
5.	Registration form	5
6.	Session Details	6
7.	Participants List	7
8.	Report on workshop	9
9.	Feedback	10
10.	Sample Certificate	12
11.	Sample photo	13

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

**11/11/2019**

**E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATINAM**

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**One day workshop**

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**BASIC COMPUTER SKILL AWARENESS PROGRAM**

**19.11.2019**

**Department of MCA**

**AGENDA**

- ❖ **Welcome address.**
- ❖ **Introduction to resource person**
- ❖ **Awareness session on 19.11.2019 from 10.00 am to 4.00 pm**
- ❖ **Valedictory function between 4.00 pm to 4.30 pm**

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

Nagapattinam

16.11.2019

From

Mrs.C.Mallika, Assoc.Prof/MCA  
Mrs.A.Hema, Asst. Prof/MCA,  
E.G.S.Pillay Engineering College,  
Nagapattinam.

To

The principal,  
E.G.S.Pillay Engineering College,  
Nagapattinam.

Thru

Dr.J.Vanitha, Prof/HOD/MCA  
E.G.S.Pillay Engineering College,  
Nagapattinam.



Respected Sir,

Sub: Request to conduct One day workshop on Essential computer training program to non teaching staff regarding.

The Staff members of MCA department are planning to Organize One day Workshop on basic of Microsoft software packages such as micro office & editors for non teaching staff on 19.11.2019. So we request you to give the permission to organize the workshop.

Thanking you,

Yours truly,

1. 
2. 

  
Dr. S. RAMABALAN. M.E., Ph.D.  
PRINCIPAL  
E.G.S. Pillay Engineering College.  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**

**DEPARTMENT OF COMPUTER APPLICATIONS**

***BASIC COMPUTER SKILL AWARENESS PROGRAM***

***ON***

***19<sup>th</sup> November 2019***

**Cordially Invites you for the**

**CHIEF PATRON : Shri.S.Pameswaran, Secretary**

**PATRON : Dr.S.Ramabalan, Principal, EGSPEC  
Dr.V.Mohan,Vice Principal, EGSPEC**

**ORGANIZER : Dr.J.Vanitha, HOD/MCA**

**ORGANIZING SECRETARIES : Mrs. C.Mallika, (AP/MCA)  
Mrs. A.Hema, (AP/MCA)**

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**



**E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATINAM**

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(An ISO 9001-2015 certified institution)  
(Approved as Nodal Centre for Quality Improvement)  
**DEPARTMENT OF MCA**

**Circular Dated 18/11/2019**

We are happy to inform that our MCA department is going to organize a ~~one~~ day Workshop on Basic Computer skill Awareness Program on 19/11/2019 at MCA Soft View Lab for Non Teaching staff of our Institution.

The Sessions are handled by. Mrs.A.Hema & Mrs.C.Mallika. All the Non Teaching Staff members are invited.

**HOD/MCA**

**PRINCIPAL**

Copy To: The Secretary, The Principal, The Vice Principal, HODs, T&P, R&D, Transport, Library and File.

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
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Nagapattinam (Dt) Tamil Nadu.**

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(Approved as Nodal Centre for Quality Improvement)

**One day workshop**

**On**

**BASIC COMPUTER SKILL AWARENESS PROGRAM**

**19.11.2019**

**Department of MCA**

**Registration Form**

Name (In Block letters): Mrs. R. Mathurabaskini  
Department Name: Librarian  
Address: Librarian - E. Govt Pillay Engineering College  
Pin: 611 002  
Email: mathurabaskini78@gmail.com  
Mobile no: 9789567012

**Declaration**

I, Mrs. R. Mathurabaskini agree to abide by the rules and regulation governing the Seminar. The information provided herewith is true to the best of my knowledge.

Place: Nagapattinam  
Date: 19.11.19

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

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**(Approved as Nodal Centre for Quality Improvement)**

**One day workshop**

**On**

**BASIC COMPUTER SKILL AWARENESS PROGRAM**

**19.11.2019**

**Department of MCA**

**Session Details**

<b>Date/ Session</b>	<b>I Session 10.00 a.m. to 12.30 p.m</b>		<b>II Session 01.30 p.m. to 04.00 p.m.</b>
19.11.2019	<b>Module 1:</b> <ul style="list-style-type: none"><li>• Introduction about MS Office</li><li>• Microsoft Word: How to Simplify &amp; Organize Long Documents</li><li>• Excel Calculation</li><li>• Creation of Power Point Presentation</li></ul>	<b>Break</b>	<b>Module 2:</b> <ul style="list-style-type: none"><li>• Working in Lab</li><li>• Assessment –give examples</li><li>• Sample Document preparation</li><li>• Worksheet Creation</li></ul>

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

**E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATINAM**

**[AUTONOMOUS]**

**(Approved by AICTE and Affiliated to Anna university)**

**(An ISO 9001-2008 certificated institution)**

**(Approved as Nodal Centre for Quality Improvement)**

**One day workshop**

**On**

**BASIC COMPUTER SKILL AWARENESS PROGRAM**

**19.11.2019**

**Department of MCA**

**Participants List**

<b>S.NO</b>	<b>Staff Name</b>	<b>Department Name</b>
1.	P.Meerabai	Principal Office
2.	R.Shanmugam	Principal Office
3.	R.Mathurabashini	Library
4.	R.Sumathi	Library
5.	G.Muruganandam	Library
6.	P.Muthunayakam	Information Technology
7.	S.Gopinath	Accounts Office
8.	J.Kasthuri	Accounts Office
9.	K.Muthukumarasamy	Accounts Office
10.	P.Sudhamathy	Accounts Office
11.	R.Balakrishnan	Accounts Office

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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu**

12.	S.Sakthivel	Mechanical
13.	S.Venkatesan	Mechanical
14.	K.Raju	ECE
15.	S.Vijayasankar	S&H
16.	B.Ramamoorthy	Civil
17.	V.Rajakumar	Civil
18.	G.Durga	Civil
19.	P.Kalaiselvan	EEE
20.	B.Durgalaxmi	EEE
21.	G.Manikandan	EEE
22.	T.Gopi	EEE
23.	D.Senthil kumar	EEE
24.	T.Keerthivasan	Principal Office
25.	D.Velavan	Principal Office

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**Department of MCA**

***SUMMARY REPORT***

We cordially announce that our department of MCA is organizing an awareness program on basic computer skill awareness program to the on-campus for non-teaching staff members in our college. We initiated the session with the presence of principal and secretary; they gave general talk regarding the importance of computer and necessity in learning the technologies. The session was handover to the staff members after the break; our staff members have given lecture about basics of computer and basic knowledge. Practical session was handled by staff members after the lunch break in order to provide practise on the computer usage basic things known by them. Finally vote of thanks delivered by Mrs.C.Mallika., Assoc.Prof./MCA.

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(Approved as Nodal Centre for Quality Improvement)

One day workshop

On

**BASIC COMPUTER SKILL AWARENESS PROGRAM**

19.11.2019

Department of MCA

Feedback Form

Name of the Participant: **P MEERABAI**

Date: 19.11.2019

Department Name: **PRINCIPAL OFFICE**

	1 Average	2 Good	3 Excellent
The overall flow of the Workshop was well structured to meet the learning outcomes and to produce the required outputs			✓
Purpose of the Workshop (why it is being carried out) was clear.		✓	
To meet the requirements of the Workshop.		✓	
To cover the subject matter of the Workshop.			✓
The objectives/ expected outputs of the Workshop were clear.			
The individual exercises/ case studies were relevant to achieving the objectives/ expected outcomes of the workshop		✓	
The reference manual provided valuable information to support the Workshop.		✓	
Any other comments or suggestions?	- Nil -		
Overall, how would you rate this Workshop	[ ] POOR [ ] FAIR [ ] GOOD [✓] EXCELLENT		

*Meerabai*  
Participant Signature

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,**

**PRINCIPAL**

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**Thethi, Nagore - 611 002.**

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**BASIC COMPUTER SKILL AWARENESS PROGRAM**

**19.11.2019**

**Department of MCA**

**Sample Photos**



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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
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**Nagapattinam (Dt) Tamil Nadu.**





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Thethi, Nagore - 611 002.  
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**E.G.S. PILLAY ENGINEERING COLLEGE(AUTONOMOUS), NAGAPATTINAM**


**DEPARTMENT OF CSE**

**Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs –  
08/07/2019 to 10/07/2019**

**CONTENTS**

1. Circular
2. Requisition Letter
3. Proposal
4. Synopsis of the Workshop
5. Resource Person details
6. Participants Attendance
7. Attainment
8. Event material
9. Event Feedback
- 10.Event Photo
- 11.Certificates

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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

From

Prof. J. Noorul Ameen, AP/CSE

Prof A. Baskar, AP/CSE

EGS Pillay Engineering College

Nagapattinam

To

The Principal

EGS Pillay Engineering College

Nagapattinam

Sir

Sub: Requesting permission to conduct workshop - Reg

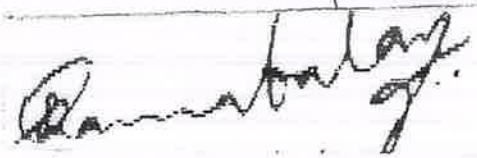
We are happy to inform you that Department of CSE is planned to organize Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs on 08/07/2019 – 10/07/2019. Herewith we enclosed proposal for your reference. Kindly give permission to conduct this workshop.

Thanking you

Yours truly



  
(Event Coordinator(s))



HOD

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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

PRINCIPAL

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM

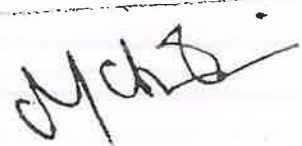
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CIRCULAR

EGSPEC/CSE/JUL2019/01

02/07/2019

Greetings from department of CSE. We are going to organize "Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs" from 08/07/2019 to 10/07/2019. In this regard all non teaching staff members of our college are requested to attend this workshop.



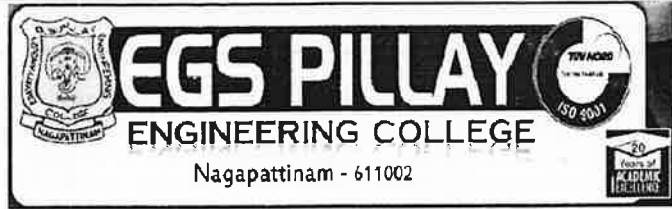
HoD

CC to: The Secretary, All Hods, PED, COE, Account Office, Office File

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

CSE

7/10



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(Accredited by NAAC with "A" Grade)  
(Accredited by NBA)

## Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs



### *Organized by*

*Department of CSE  
E.G.S Pillay Engineering  
College  
Nagapattinam – 611 002  
Tamil Nadu.*

### *Resource Person*

*J. Noorul Ameen M.E.,  
Assistant Professor / CSE  
E.G.S Pillay Engineering College,  
Nagapattinam – 611 002*

**Hands on Training Program on Hardware and Troubleshooting for  
Non Teaching Staffs**

**COURSE OUTCOMES**

At the end of this workshop, attendees can able to

<b>CO Number</b>	<b>Competency</b>	<b>Cognitive level</b>
CO1	Demonstrate the use of computer hardware devices.	UNDERSTAND
CO2	Assemble and disassemble hardware components.	Apply
CO3	Perform troubleshooting and take care of maintenance of computers.	Apply

**COs Vs POs Matrix**

(Support provided by COs to PIs: L = lightly(1); M = Moderately (2); S = Substantially (3))

<b>CO/PO</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>P10</b>	<b>PO11</b>	<b>PO12</b>
CO1	3	3	-	-	-	-	-	-	-	3	-	3
CO2	3	3	-	-	-	-	-	-	-	3	-	3
CO3	3	3	-	-	-	-	-	-	-	3	-	3

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**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**  
**PROGRAMMERS PARADISE CLUB, DEPARTMENT OF CSE**

**(Approved by AICTE, Affiliated to Anna University)**  
**(Accredited by NBA)**

**(Accredited by NAAC with "A" Grade)**

**Hands on Training Program on Hardware and Troubleshooting for  
Non Teaching Staffs**

**Submission of Proposal**

**1. Event Details**

Title of the Event	Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs
Event Date & Session	08/07/2019 to 10/07/2019
Event Type	Workshop
Participants	Lab Technicians and Non Teaching Staffs of EGSPEC
Resource Person	J. Noorul Ameen M.E,(Ph.D)., Assistant Professor / CSE.
Venue	EGSPEC – CC LAB 1
Event Convener	Dr. M. Chinnadurai, HoD/CSE
Event Coordinator(s)	J. Noorul Ameen M.E,(Ph.D)., Assistant Professor / CSE A. Baskar M.E,(Ph.D)., Assistant Professor / CSE

**3. Budget Details (Approx.):**

S.No	Criteria	Amount
01	Banner and Printing Charges	400
02	Tea and Snacks	1800
	<b>Total</b>	<b>Rs.2200/-</b>

ATP  


  
Event Coordinator(s)

**E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM**

**DEPARTMENT OF CSE**

**Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs**

**Synopsis of the training program      Date: 08/07/2019 to 10/07/2019**

Department of Computer Science and Engineering conducted “**Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs**”.

- Coordinators: Prof J. Noorul Ameen(AP/CSE) and Prof A. Baskar (AP/CSE)
- Convenor: Prof Dr. M. Chinnadurai/ Prof & HoD / CSE

Inaugurated and supported by our beloved joint secretary Chev Mr Paramesvaran sir, Dr S. Ramabalan Principal, Dr. V. Mohan academic director, Dr. M. Chinnadurai HoD CSE department and professors of CSE department .

Drived by Prof J. Noorul Ameen, Assistant Professor, Department of CSE.

Non teaching staffs from our engineering college are actively participated.

**Outcome of the workshop:**

1. Demonstrate the use of computer hardware devices.
2. Assemble and disassemble hardware components.
3. Perform troubleshooting and take care of maintenance of computers.

We thank our management, principal sir, academic director sir and dept Hod sir for giving permission to conduct this training program successfully.

We thank Thamarai Kannan sir of CSE Department for making necessary lab arrangements.

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
**Ther'ii, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**



# J. NOORUL AMEEN

9, Yahusain Palli Street, Nagapattinam, TamilNadu, India 611001 |(C) +919150132532 | noornilo@gmail.com

## PROFESSIONAL SUMMARY

To contribute to the growth of an educational institution by working as faculty, where I will have opportunities to build and refine my teaching skills and knowledge seeking a role offering opportunities for long term professional growth and development.

## SKILLS

- C/C++/Java
- Desktop and Laptop repair
- AWS Academy Cloud Foundation
- Internal components installation
- AWS Academy Cloud Architecting
- Antivirus solutions
- EMCAA
- MS Office

## WORK HISTORY

### JUNE 2013 (Full Time)

**Assistant Professor | E.G.S Pillay Engineering College | Nagapattinam, Tamilnadu, India**

- Teaching various subjects for undergraduate computer engineering subjects especially in the area of cloud computing
- Coordinating the activities of students
- Working as department placement coordinator
- Organizing committee coordinator of various international conferences
- Internal reviewer of various international conferences
- Motivating students on co-curricular activities...

### AUGUST 2012 – MAY 2013


**Assistant Professor | AL Ameen Engineering College | Erode, Tamilnadu, India**

- Delivered lectures on various subjects for undergraduate computer engineering subjects
- Monitoring the activities of students
- Managed hostel as deputy warden

### JANUARY 2009 – MAY 2010

**Software and Hardware Trainer | Orbit Computer Education | Thiruvavur, Tamilnadu, India**

- Trained students on windows, C, C++, Java technologies
- Trained students on computer hardware - Assembling, Troubleshooting, Installation and Maintenance
- Monitored proper working of computers

ATTESTED  
  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

- **Dynamic Auditing Protocol for Efficient and Secure Data Storage in Cloud Computing** - COMPUSOFT, An international journal of advanced computer technology, 3 (6), June-2014 (Volume-III, Issue-VI)
- **Efficient Authentication Scheme Using PCCP** - COMPUSOFT, An international journal of advanced computer technology, 3 (6), June-2014 (Volume-III, Issue-VI)

## DECLARATION

\*\*\*\*\*

I hereby declare that the information furnished above is true to the best of my knowledge.

Date: 10-07-2019

Place: Nagapattinam

  
(J. Noor Ameen)

ATTESTED

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

## DEPARTMENT OF CSE

Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs – 08/07/2019 to 10/07/2019

## Attendance Sheet

S. NO	NAME	DESIGNATION	DEPARTMENT	SIGNATURE		
				08/07/2019	09/07/2019	10/07/2019
1.	KALIYAMURTHY.G	OFFICE SUPERINTENDENT	ACCOUNTS	G. Kaliamurthy	G. Kaliamurthy	G. Kaliamurthy
2.	ELANCHELIAN	LAB ASSISTANT	CSE	Elanchelian	Ramesh	Ramesh
3.	A VIGNESHKUMAR	LAB ASSISTANT	ECE	A.V.	A.V.	A.V.
4.	MATHURABASHINI. R	ASSISTANT LIBRARIAN	LIBRARY	Mathurabashi	Mathurabashi	Mathurabashi
5.	SUMATHI. R	ASSITANT LIBRARIAN	LIBRARY	Sumathi	Sumathi	Sumathi
6.	MURUGANANDAM G	LIBRARIAN	LIBRARY	Murugan	Murugan	Murugan
7.	SRIKRISHNABABU, R	LAB TECHNICIAN	MCA	Srikrishna	Srikrishna	Srikrishna
8.	SAKTHIVEL. S	SKILLED ASSISTANT	MECH	Sakthivel	Sakthivel	Sakthivel
9.	S. VENKATESAN	SKILLED ASSISTANT	MECH	Venkatesan	Venkatesan	Venkatesan
10.	SENTHIL MURUGAN. S	SKILLED ASSISTANCE	MECH	Senthil Murugan	Senthil Murugan	Senthil Murugan
11.	D.VELAVAN	PHYSICAL DIRECTOR	PHYSICAL EDUCATION	D.V.	D.V.	D.V.
12.	VIJAYASANKAR.S	TECHNICAL ASSISTANT	SAH	Vijayan	Vijayan	Vijayan
13.	RAJU. K	SERVICE ENGINEER	ECE	Raju	Raju	Raju
14.	MUTHUNAYAKAM. P	LAB ASSISTANT	IT	Muthu Nayagam P	Muthu Nayagam P	Muthu Nayagam P
15.	SHANMUGAM. B	LIBRARIAN	LIBRARY	Shanmugam B	Shanmugam B	Shanmugam B

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Nagapattinam (Dt) Tamil Nadu.

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**DEPARTMENT OF CSE**

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**(Accredited by NBA)**

**(Accredited by NAAC with "A" Grade)**

**Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs**

**COURSE OUTCOMES**

At the end of this workshop, attendees can able to

CO Number	Competency	Cognitive level
CO1	Demonstrate the use of computer hardware devices.	Understand
CO2	Assemble and disassemble hardware components.	Apply
CO3	Perform troubleshooting and take care of maintenance of computers.	Apply

S. No	Name	Department	Designation	CO1	CO2	CO3
1.	KALIYAMURTHY.G	OFFICE SUPERINTENDENT	ACCOUNTS	3	3	3
2.	ELANCHELIAN	LAB ASSISTANT	CSE	3	3	3
3.	A VIGNESHKUMAR	LAB ASSISTANT	ECE	2	2	2
4.	MATHURABASHINI. R	ASSISTANT LIBRARIAN	LIBRARY	3	3	3
5.	SUMATHI. R	ASSITANT LIBRARIAN	LIBRARY	3	3	3
6.	MURUGANANDAM G	LIBRARIAN	LIBRARY	2	2	2
7.	SRIKRISHNABABU,R	LAB TECHNICIAN	MCA	3	3	3
8.	SAKTHIVEL. S	SKILLED ASSISTANT	MECH	3	3	3
9.	S.VENKATESAN	SKILLED ASSISTANT	MECH	3	3	3
10.	SENTHIL MURUGAN. S	SKILLED ASSISTANCE	MECH	3	3	3
11.	D.VELAVAN	PHYSICAL DIRECTOR	PHYSICAL EDUCATION	3	3	3
12.	VIJAYASANKAR.S	TECHNICAL ASSISTANT	SAH	3	3	3
13.	RAJU. K	SERVICE ENGINEER	ECE	2	2	2
14.	MUTHUNAYAKAM. P	LAB ASSISTANT	IT	3	3	3
15.	SHANMUGAM. B	LIBRARIAN	LIBRARY	2	2	2
<b>TOTAL</b>				<b>38</b>	<b>41</b>	<b>39</b>
<b>ATTAINMENT</b>				<b>84</b>	<b>91</b>	<b>87</b>
<b>ATTAINMENT LEVEL</b>				<b>3</b>	<b>3</b>	<b>3</b>

**Attainment Level 1,2,3**

**Attainment Level 1: >70%**

**Attainment Level 2: >80%**

**Attainment Level 3: >90%**

**ATTESTED**  


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Thothi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu,**

## TROUBLESHOOTING MOTHERBOARD

### MOTHERBOARD

SL.NO	SYMPTOM	PROBLEM CAUSE	REMEDY
01.	Halts intermittently	Grounding due to loose contacts and wiring	Secure them properly.
02.	System initialization halts	POST detects faulty CPU.	Replace
03.	Processor is heated excessively and system resets very often.	Heat sink/ fan	Check supply to the fan and heat sink for installation.
04.	POST reports faulty FPU	One or more register of FPU are faulty	FPU can be disabled through CMOS setup. If a separate FPU is used in socket, can be replaced
05.	POST reports BIOS ROM checksum error.	Checksum is performed on the ROM contents, that value is compared with the value stored in ROM. If both values are equal ROM is good otherwise ROM is defective.	Defective ROM must be replaced with good one. Newer BIOS IC are flash (EEPROM). The content of flash ROM can be erased and programmed without removing from its PLCC socket.
06.	POST reports error in timer (PIT) IC 8253, RTC, Memory refresh.	One or more counters of PIT have failed. In new motherboard 8253 is integrated in system controller IC (surface mounted)	If possible replace the IC or replace the motherboard.
07.	POST reports error in PIC IC 8259.	AT has two PICs built into system controller IC and handles IRQ0 to IRQ7 and thru IRQ 2 handles IRQ 8 to IRQ 15. PIC may be due to IRQ conflicts.	If possible replace system controller IC or replace the motherboard.

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PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

14.	Only 32MB is displayed whereas two 32MB SIMMs are installed.	One out of two SIMMs is faulty or may not be properly inserted.	Turn on the system keeping one SIMM at a time to find out the faulty SIMM.
15.	A creative sound card (PNP) refuses to work on one motherboard but works on another motherboard.	Problem with PNP BIOS support.	Update the BIOS with the help of motherboard manufacturer or download the BIOS update from manufacturer.
16.	CD-ROM drive refuses to work when bus mastering driver is installed.	It is due to driver conflicting with IDE/EIDE controller.	Update the IDE bus master driver otherwise disable it completely.
17.	An AMD 5*86 processor cannot run in your mother-board.	Check processor working voltage, clock, BIOS support to AMD CPU all that match to the processor plugged in to the socket.	If the CPU runs on 3.3v you may have to include voltage regulator in the CPU socket. Set the jumper for the right CPU clock and voltage. If required, update the BIOS.
18.	A Cyrix 5*86 processor cannot run in your motherboard.	Check processor voltage, clock speed, BIOS support to Cyrix 5*86 CPU all that support to the processor plugged into socket.	If the CPU runs on 3.3v you may have to include voltage regulator in the CPU socket or set the jumper to correct voltage setting and also set the jumper for proper clock. If required, update the BIOS.
19.	System resource conflict error message displayed on the screen and system halts.	This error message is produced by the PnP BIOS when it detects the resource conflict during initialization.	During POST press <insert> key to force the BIOS to reconfigure conflicting devices. If the problem persists you need to update BIOS or manually configure.

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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26.	"Registry corruption" or "out of memory" error appears on the screen.	Old BIOS version problem in Pentium motherboard causes motherboard to malfunction under windows 95.	BIOS has to be updated for the particular motherboard.
27.	BIOS refuse to detect SCSI controller during boot.	This happens with different PCI type of motherboard.	If the SCSI controller is installed in PCI slot 2, you will have to configure PCI slot in CMOS setup.
28.	Memory module does not work even it is good.	Gold plated SIMMs do not work properly in tin plated SIMM socket.	Use correct SIMM for correct socket.
29.	Motherboard has only two COM ports, but windows 95 indicates four ports.	Problem in motherboard BIOS.	Downloaded BIOS update from the manufacturer's website and upgrade the BIOS.
30.	Windows 95 detected unknown PCI device. An yellow marks appears over the USB port.	Proper driver has not been loaded for the USB. Windows 95 could not detect the USB hardware.	You can update the system BIOS to recognize USB hardware under windows 95.
31.	BIOS update could not be started by pressing <ctrl>+<home>	The BIOS version loaded does not support the key sequence.	To flash the BIOS, start flash program, manually from the DOS prompt. For example: A:\>AMIFL PAIV17. ROM <enter>.
32.	BIOS detects only add-on card parallel port, not onboard parallel port.	Win bond chipset designed to recognize onboard parallel port (378) first and then add-on card's port 3BC.	Upgrading the BIOS will solve the problem.
33.	Devices connected to parallel port do not work.	Improper selection of parallel port modes (ECP, EPP, SPP) for the particular device.	In CMOS setup select integrated peripheral to configure the parallel port for compatibility mode.
34.	"Static device resource conflict "error message appears on the screen.	The problem is in PCI add-on cards connected to PCI bus system.	Press and hold<insert> when you turn the system on add release it when the display appears. This will force the system to reassign the IRQ and port address.

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

**E.G.S. PILLAY ENGINEERING COLLEGE(AUTONOMOUS), NAGAPATTINAM  
DEPARTMENT OF CSE**

**Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs – 08/07/2019 to 10/07/2019**

**Feedback Form**

**Name:** Shanmugam.B

**Designation:** Librarian

**Department:** Library

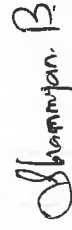
At the end of this training program, attendees can able to

S.NO	COURSE OUTCOME	COGNITIVE LEVEL	RATINGS			
			Highly Agree	Agree	Neutral	Disagree
CO1	Demonstrate the use of computer hardware devices.	Understand	✓			
CO2	Assemble and disassemble hardware components.	Apply	✓			
CO3	Perform troubleshooting and take care of maintenance of computers.	Apply	✓			

**ATTESTED**  


**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**



Signature of the attendee



**E.G.S. PILLAY ENGINEERING COLLEGE(AUTONOMOUS), NAGAPATTINAM  
DEPARTMENT OF CSE**

**Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs – 08/07/2019 to 10/07/2019**

**Feedback Form**

**Name:** SENTHIL MURUGAN.S

**Designation:** SKILLED ASSISTANCE

**Department:** MECH

At the end of this training program, attendees can able to

S.NO	COURSE OUTCOME	COGNITIVE LEVEL	RATINGS			
			Highly Agree	Agree	Neutral	Disagree
CO1	Demonstrate the use of computer hardware devices.	Understand	✓			
CO2	Assemble and disassemble hardware components.	Apply	✓			
CO3	Perform troubleshooting and take care of maintenance of computers.	Apply		✓		

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu**

*Senthil murugan.s*

Signature of the attendee

**E.G.S. PILLAY ENGINEERING COLLEGE(AUTONOMOUS), NAGAPATTINAM  
DEPARTMENT OF CSE**

**Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs – 08/07/2019 to 10/07/2019**

**Feedback Form**

**Name:** KALIYAMURTHY.G

**Designation:** OFFICE SUPERINTENDENT

**Department:** ACCOUNTS

At the end of this training program, attendees can able to

S.NO	COURSE OUTCOME	COGNITIVE LEVEL	RATINGS			
			Highly Agree	Agree	Neutral	Disagree
CO1	Demonstrate the use of computer hardware devices.	Understand	✓			
CO2	Assemble and disassemble hardware components.	Apply		✓		
CO3	Perform troubleshooting and take care of maintenance of computers.	Apply	✓			

*G.Kaliyamurthy*

Signature of the attendee

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.**

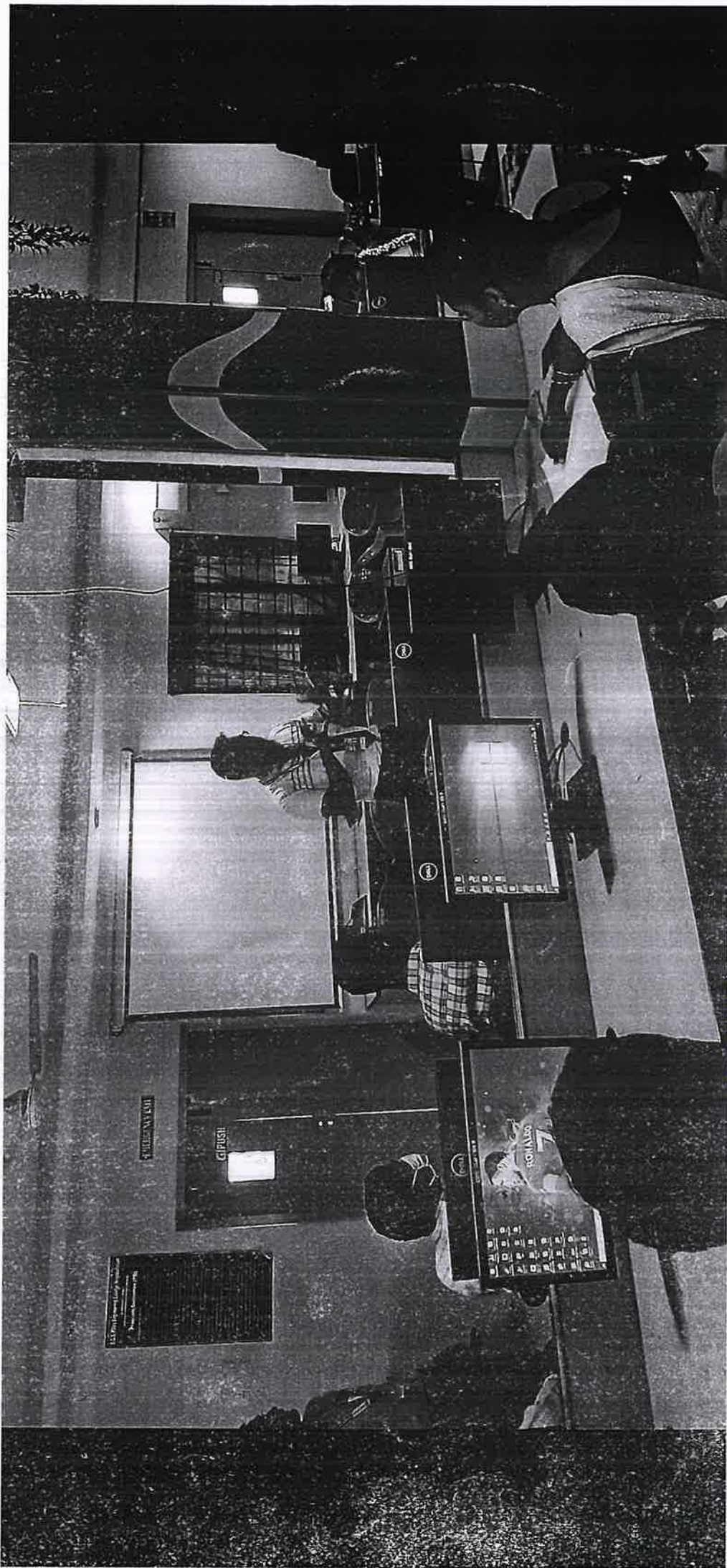
**PRINCIPAL**

E.G.S. Pillay Engineering College.

Tirupore - 611 002

Tamil Nadu

ATTESTED



ATTESTED

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Theethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Theethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

# E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

Accredited by NBA(B.E-CSE,ECE,EEE,Mech,Civil/B.Tech-II)

Affiliated to Anna University, Chennai | Approved by AICTE, New Delhi



Accredited by NAAC with Grade 'A'

An ISO 9001:2015 Certified Institution | Recognised by UGC 2(f) & 12(B)

principal@egspec.org | enquires@egspec.org

+91-4365-251112 | +91-4365-251114

Counselling Code : **3806**

Old Nagore Road, Thethi, Nagapattinam - 611002, Tamil Nadu NIRF Engineering Ranking top **200** in india

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### CERTIFICATE OF COMPLETION

This is to certify that **MUTHUNAYAKAM. P, LAB ASSISTANT/IT** has successfully completed Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs Conducted by Department of Computer Science and Engineering, E.G.S Pillay Engineering College, Nagapattinam from 08/07/2019 to 10/07/2019

J. Noorj Ameen  
Coordinator

Dr. S. RAMABALAN M.E, Ph.D  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu,

A. Baskar

Dr. M. Chinbadurai M. Ph.D  
PRINCIPAL

HoD, E.S. Pillay Engineering College, Principal

Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

ATTESTED

# E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

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Counselling Code : **3806**

Old Nagore Road, Thethi, Nagapattinam - 611002, Tamil Nadu NIRE Engineering Ranking top **200** in India

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CERTIFICATE OF COMPLETION

This is to certify that **SAKTHIVEL S, SKILLED ASSISTANT/MECH** has successfully completed Hands on Training Program on Hardware and Troubleshooting for Non Teaching Staffs Conducted by Department of Computer Science and Engineering, E.G.S Pillay Engineering College, Nagapattinam from 08/07/2019 to 10/07/2019

J. Noorul Ameen  
Coordinator

ATTESTED

A. Baskar  
Dr. S. RAMABALAN, M.E., Ph.D.  
PRINCIPAL

Dr. M. Chinadurai  
PRINCIPAL

HoB G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt), Tamil Nadu.

ATTESTED

Dr. S. Ramabalan  
PRINCIPAL



**E.G.S. PILLAY ENGINEERING COLLEGE,  
NAGAPATTINAM-611002**

**25**  
YEARS OF  
EXCELLENCE

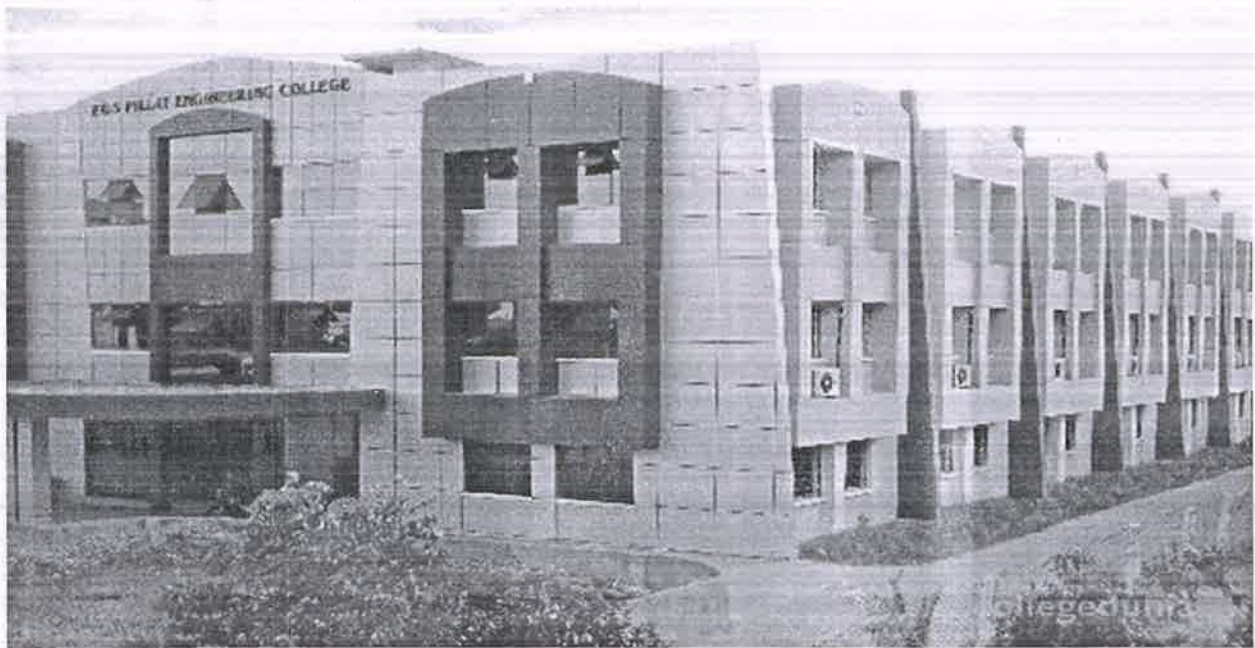
**(An Autonomous Institution)**

**Accredited by NAAC with "A" Grade | An ISO 9001:2015 Certified  
Institution**

**A REPORT ON TWO DAY WORKSHOP**

**ON**

**SAFETY AND REGULATORY MEASURES (SRM-19)**



**ORGANIZED BY DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING**

**DATE: 5th & 6th August 2019**

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

**E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**A REPORT ON TWO DAY WORKSHOP**

**ON**

**SAFETY AND REGULATORY MEASURES (SRM-19)**

**TABLE OF CONTENT**

<b>S.NO</b>	<b>PARTICULARS</b>
1.	Report
2.	Approval Letter To Principal
3	Approval Letter To Secretary
4.	Proposed Budget
5.	Circular
6.	Invitation
7.	Attendance
8.	Photos
9.	Feedback From Participants
10	Participants Certificate

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**



**E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**

**(Autonomous)**

**Accredited by NAAC with 'A' Grade**

**Department of Electrical and Electronics Engineering**

**(Accredited by NBA)**

**IQAC**

**A REPORT ON ONE DAY WORKSHOP**

**ON**



**SAFETY AND REGULATORY MEASURES (SRM-19)**

Initially, Department of EEE, E.G.S.Pillay Engineering College, Nagapattinam is planned to organize a lecture workshop for non-teaching faculty members of E.G.S. pillay group of institutions and through discussions it was coined as "Safety Measures and Energy Conservation". The program was jointly organized by internal quality assurance cell (IQAC). The coordinators identified for this workshop are Prof.K.Nandakumar, Prof S.Sivamani of EEE department

Internal Experts Dr.V.Mohan. Professor/HOD/EEE, Dr.T.Suresh Padmanabhan. Professor/EEE, Dr. D.Elaiyara Professor/MECH and Mr. K.Nandakumar Assistant Professor/EEE was fixed to handle the sessions. The session was inaugurated by the Hon'ble secretary of the Institution Shri.S.Pamesvaran, Principal Dr.S.Ramabalan and controller of Examination Dr.M.Chinnadurai. Prof S.Sivamani welcomed the gathering and followed by inaugural speech by Dr.V.Mohan, HOD/EEE

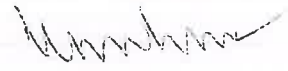
The session was started by the Internal Expert Mr. K.Nandakumar with the lecture and demo on "Fire and Safety" which is followed with the lecture on electrical safety by Dr. T.Suresh Padmanabhan on "Electrical safety". Mr. K.Mogishen, Fire Officer started the afternoon session with the lecture on "Protects citizens during emergencies". The final session was handled by Dr. V.Mohan with the lecture on "Energy conservation". He created an impact and awareness about need for power conservation and its benefits.

Finally, certificates were distributed to all the participants and vote of thanks was proposed by one of the program coordinator Prof. K.Nandakumar of the department of EEE.

1.   
2. 

**COORDINATORS**

(Mr.K.Nandakumar & Mr. S.Sivamani)



**HOD/EEE**

(Dr.V.Mohan)

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002**  
**Nagapattinam (Dt) Tamil N.**



Nagapattinam,

25-07-2019

From

Dr.V.Mohan,  
Professor & Head - EEE,  
Dept. of Electrical and Electronics Engineering,  
E.G.S.Pillay Engineering College,  
Nagapattinam.

To

The Principal,  
E.G.S.Pillay Engineering College,  
Nagapattinam.

Respected Sir,

Sub: Requesting permission to conduct one day workshop on **“Safety and Regulatory Measures (SRM-19)”** on 5<sup>th</sup> & 6<sup>th</sup> August 2019 – Reg.,

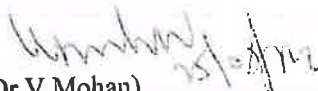
In association with IQAC, we are planning to organize a two day workshops on **“Safety and Regulatory Measures (SRM-19)”** on 5<sup>th</sup> & 6<sup>th</sup> August 2019 for all Supporting staff. Internal faculties & External members have been confirmed to handle the sessions. To organize this lecture, we seek your permission and we need an amount of **Rs. 8,500/- (Rupees eight thousand and five hundred only)** for organizing this workshop successfully. So, kindly approve for the above said fund towards this workshop.

Thanking You.

Encl Details:

1. Schedule of the Course.
2. Estimated Budget.

Yours sincerely,

  
(Dr.V.Mohan)

ATTESTED

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**(i) Schedule:**

Date	Time	Session details	Resource Person
05.08.2019 & 06.08.2019	9.30am - 10.00am	Inauguration	Staff & Students-
	10.00am - 12.00am	Electrical safety	Dr.T.Suresh Padmanabhan. Professor/EEE
	12.00 pm - 01.00 pm	Lunch break	
	01.00 pm - 04.00 pm	Protects citizens during emergencies	Mr. K. Mogishen, Fire Officer
	10.00pm - 12.00 pm	Extinguishes fires	Dr. V. Mohan, Professor & Head – EEE
	12.00 pm - 01.00 pm	Lunch break	
	01.00 pm - 04.00 pm	Fire and Safety	Mr.K.Nandakumar. Assistant Professor/EEE
	04.00 pm - 04.20 pm	Tea break	
	04.20 pm - 04.50 pm	Feedback & certificate distribution	All Supporting staff

**(ii) Participants details:**

Participants details	Maximum Number of participants
All Supporting staff	35

**(iii) Estimated Budget**

Sl.NO	ITEMS DESCRIPTION	QUANTITY REQUIRED	AMOUNT / QUANTITY IN RS.	ESTIMATED AMOUNT IN RS.
1.	Tea ,Snacks & Lunch	135(2 days session)	40	5400
2.	Flex	1	-	300
3.	Media	-	500 (2 papers)	1250
4.	Invitation & report preparation	-	300	300
5.	Certificate	50	10	500
6.	Workshop Kit	50	15	750
<b>Total Amount</b>				<b>8500</b>

**(iv) Resource Person**

Resource Person	Convener	Program Coordinators
Mr. K. Mogishen, Fire officer Dr.T.Suresh Padmanabhan. Professor/EEE Mr. K.Nandakumar Assistant Professor/EEE	Dr.V.Mohan, Professor & Head - EEE	Mr.K.Nandakumar, AP/EEE Mr. S.Sivamani, AP/EEE

**ATTESTED****Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



# E.G.S. PILLAY ENGINEERING COLLEGE

Nagapattinam  
(Autonomous)

Accredited by NAAC with 'A' Grade  
Department of Electrical and Electronics Engineering  
(Accredited by NBA)



## CORDIALLY INVITES YOU ALL FOR

TWO DAYS WORKSHOP  
ON

### SAFETY AND REGULATORY MEASURES (SRM-19)

Date: 05.08.2019 & 06.08.2019

Venue: Power Electronics Lab

**Smt. Jothimani G.S. Pillay**  
Chairman – EGSP group of Institutions

**Chev. S. Paramesvaran**  
Secretary - EGSP group of Institutions

**Dr.S.Ramabalan**  
Principal

**Dr.V.Mohan**  
HOD/EEE



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## CORDIALLY INVITES YOU ALL FOR

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ON

### SAFETY AND REGULATORY MEASURES (SRM-19)

Date: 05.08.2019 & 06.08.2019

Venue: Conference Hall

**Smt. Jothimani G.S. Pillay**  
Chairman – EGSP group of Institutions

**Chev. S. Paramesvaran**  
Secretary - EGSP group of Institutions

**Dr.S.Ramabalan**  
Principal

**Dr.V.Mohan**  
HOD/EEE

ATTESTED

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



**E.G.S. PILLAY ENGINEERING COLLEGE, Nagapattinam**  
(Autonomous)

Accredited by NAAC with 'A' Grade

**Department of Electrical and Electronics Engineering**

(Accredited by NBA)

**CIRCULAR**

**IQAC**

Date: 25-07-2019.

We are happy to announce that a two day workshops on “**Safety and Regulatory Measures (SRM-19)**” is going to be organized by the department of EEE in association with IQAC on **5<sup>th</sup> & 6<sup>th</sup> August 2019** for all Supporting staff of our Institution. All Supporting staff and also interested faculty members are requested to register their names to Mr.K.Nandakumar and Mr.S.Sivamani, AP/EEE on or before 27.07.2019.

**HOD/EEE**

**Principal**

- Copy to: 1. The Honorable Secretary, EGSPEC  
2. The Principal, EGSPEC  
3. All Department Notice Board



**E.G.S. PILLAY ENGINEERING COLLEGE, Nagapattinam**  
(Autonomous)

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**Department of Electrical and Electronics Engineering**

(Accredited by NBA)

**CIRCULAR**

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Date: 25-07-2019.

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**HOD/EEE**

**Principal**

- Copy to: 1. The Honorable Secretary, EGSPEC  
2. The Principal, EGSPEC  
3. All Department Notice Board

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



**E.G.S. PILLAY ENGINEERING COLLEGE, Nagapattinam**  
 (Autonomous)  
 Accredited by NAAC with 'A' Grade  
 Department of Electrical and Electronics Engineering  
 (Accredited by NBA)



**TWO DAY WORKSHOPS ON**  
**SAFETY AND REGULATORY MEASURES (SRM-19)**

Date: 05.08.2019 & 06.08.2019

Venue: Conference Hall

**ATTENDANCE**

S.NO	STAFF NAME	DEPARTMENT	FN	AN
1	S. Saktivel	MECH	S. Saktivel	S. Saktivel
2	S. JOSEPH	MECH	S. Joseph	S. Joseph
3	K. RAJU	BOE	K. Raju	K. Raju
4	D. VEKATESAN	EE	D. Vekatesan	D. Vekatesan
5	D. Venkatesan	EE	D. Venkatesan	D. Venkatesan
6	S. Senthilmurugan		S. Senthilmurugan	S. Senthilmurugan
7		EE		
8	M. Muthu Raja	CSE	M. Muthu Raja	M. Muthu Raja
9	P. SIVA SANKAR		P. Siva Sankar	P. Siva Sankar
10	M. Sreekanth	MAA	M. Sreekanth	M. Sreekanth
11	M. RAJAN	CIVIL	M. Rajan	M. Rajan
12	K. RAJAN	CoE	K. Rajan	K. Rajan
13	M. RAJAN	EE	M. Rajan	M. Rajan
14	M. RAJAN	EE	M. Rajan	M. Rajan
15	K. RAJAN	CoE	K. Rajan	K. Rajan
16	S. RAJAN	CoE	S. Rajan	S. Rajan
17	B. RAJAN	CoE	B. Rajan	B. Rajan
18	V. RAJAN		V. Rajan	V. Rajan
19	A. RAJAN	EE	A. Rajan	A. Rajan
20	A. JOHN ANTHONY	EE	A. John Anthony	A. John Anthony
21	B. RAJAN	CoE	B. Rajan	B. Rajan
22	K. RAJAN	EE	K. Rajan	K. Rajan
23	J. RAJAN		J. Rajan	J. Rajan
24	M. RAJAN	BEE	M. Rajan	M. Rajan

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

E.G.S. Pillay Engineering College,  
 Thethi, Nagore - 611 002  
 Nagapattinam (Dt) Tamil Nadu.



**SAFETY AND REGULATORY MEASURES (SRM-19)**



**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

**HOD/EEE  
(Dr.V.Mohan)**



**E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS)  
NAGAPATTINAM - 611 002**

Accredited by NAAC with 'A' grade, Accredited by NBA (EEE, CSE & MECH)  
Approved by AICTE – New Delhi, Affiliated to Anna University, Chennai

Two day Workshop

on

**“SAFETY AND REGULATORY MEASURES (SRM'22)”**

**Organized by**

Department of Electrical & Electronics Engineering

Venue: Power Electronics Lab

05<sup>th</sup> & 6<sup>th</sup> AUGUST 2019

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**



## PARTICIPANT FEEDBACK FORM

Program : One day Workshop  
 Title : Troubleshooting Of Electrical And Electronics Equipments (Tree'19)  
 Date : 05.08.2019 & 06.08.2019  
 Coordinators : Mr.K.Nandakumar & Mr.S. Sivamani  
 Organizer : Department of Electrical and Electronics Engineering  
 Institution : E.G.S. Pillay engineering College

**Instruction:** Please indicate your level of agreement with the statements listed below in scores ranging from 5-1

S.No	Parameters	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1	The objectives of the course were clearly defined	✓				
2	Participation and interaction were encouraged		✓			
3	Topics covered were relevant to the programme					
4	The content was organized and easy to follow	✓				
5	The content is easy to understand useful to analyze	✓				
6	This course experience will be useful in my teaching/ research		✓			
7	Lectures were very informative on current state of art design and useful to apply the concepts		✓			
8	The programme objectives were met	✓				
9	Time allotted for topics were sufficient		✓			
10	The learning environment and facilities were adequate and comfortable	✓				

**Overall rating:** Excellent (E) / Good (G) / Satisfactory(S) / Poor (P)

11	What did you like most about this programme? <i>The detailed explanation given.</i>
12	What are the things to be added for improvement? <i>Can increase in time of program.</i>
13	Any more suggestions to improve the programme

**ATTESTED**

*[Signature]*  
**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

Thanks for your valuable feedback

### **PARTICIPANT FEEDBACK FORM**

Program : Two days workshop  
Title : Troubleshooting Of Electrical And Electronics Equipments (Tree'19)  
Date : 05.08.2019 & 06.08.2019  
Coordinators : Mr.K.Nandakumar & Mr.S. Sivamani  
Organizer : Department of Electrical and Electronics Engineering  
Institution : E.G.S. Pillay engineering College

**Instruction:** Please indicate your level of agreement with the statements listed below in scores ranging from 5-1

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2	Participation and interaction were encouraged		✓			
3	Topics covered were relevant to the programme	✓				
4	The content was organized and easy to follow	✓				
5	The content is easy to understand useful to analyze		✓			
6	This course experience will be useful in my teaching/ research	✓				
7	Lectures were very informative on current state of art design and useful to apply the concepts		✓			
8	The programme objectives were met	✓				
9	Time allotted for topics were sufficient	✓				
10	The learning environment and facilities were adequate and comfortable		✓			

**Overall rating:** Excellent (E) / Good (G) / Satisfactory(S) / Poor (P)

11	What did you like most about this programme? —
12	What are the things to be added for improvement? Can provide snacks & tea ...
13	Any more suggestions to improve the programme —

Thanks for your valuable feedback

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## PARTICIPANT FEEDBACK FORM

Program : Two days workshop  
 Title : Troubleshooting Of Electrical And Electronics Equipments (Tree'19)  
 Date : 05.08.2019 & 06.08.2019  
 Coordinators : Mr.K.Nandakumar & Mr.S. Sivamani  
 Organizer : Department of Electrical and Electronics Engineering  
 Institution : E.G.S. Pillay engineering College

**Instruction:** Please indicate your level of agreement with the statements listed below in scores ranging from 5-1

S.No	Parameters	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)
1	The objectives of the course were clearly defined	✓				
2	Participation and interaction were encouraged	✓				
3	Topics covered were relevant to the programme		✓			
4	The content was organized and easy to follow	✓				
5	The content is easy to understand useful to analyze	✓				
6	This course experience will be useful in my teaching/ research	✓				
7	Lectures were very informative on current state of art design and useful to apply the concepts		✓			
8	The programme objectives were met		✓			
9	Time allotted for topics were sufficient	✓				
10	The learning environment and facilities were adequate and comfortable	✓				

**Overall rating:** Excellent (E) / Good (G) / Satisfactory(S) / Poor (P)

11	What did you like most about this programme?  <div style="text-align: center;"> <p>Good</p> </div>
12	What are the things to be added for improvement?  <div style="text-align: center;"> <p>-</p> </div>
13	Any more suggestions to improve the programme  <div style="text-align: center;"> <p>Nothing</p> </div>

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
 E.G.S. Pillay Engineering College,  
 Thethi, Nagore - 611 002.  
 Nagapattinam (Dt) Tamil Nadu.



# E.G.S PILLAY ENGINEERING COLLEGE (AUTONOMOUS)



**NAGAPATTINAM - 611002**

Accredited by NAAC with 'A' Grade | Accredited by NBA (EEE, MECH, CSE)  
Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai



## Two days workshop on **SAFETY AND REGULATORY MEASURES (SRM-19)**

Organized by

**Department of Electrical & Electronics Engineering**



**Certificate**

This is to certify that Mr. / Ms. / Mrs. M.NAGARAJAN  
of E.G.S.Pillay Engineering College Nagapattinam has attended two days workshop on  
**SAFETY AND REGULATORY MEASURES (SRM-19)** on 05<sup>th</sup> & 06<sup>th</sup> August 2019.

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

PRINCIPAL

CONVENER





# E.G.S PILLAY ENGINEERING COLLEGE (AUTONOMOUS)



**NAGAPATTINAM - 611002**

Accredited by NAAC with 'A' Grade | Accredited by NBA (EEE, MECH, CSE)  
Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai

**IQAC**

Two days workshop on

## SAFETY AND REGULATORY MEASURES (SRM-19)

Organized by

*Department of Electrical & Electronics Engineering*

*Certificate*



This is to certify that Mr. / Ms. / Mrs. A. JOHN ANTHONY  
of E.G.S.Pillay Engineering College Nagapattinam has attended two days workshop on  
**SAFETY AND REGULATORY MEASURES (SRM-19)** on 05<sup>th</sup> & 06<sup>th</sup> August 2019.

*W. S. Srinivasan*  
**CONVENER**

**ATTESTED**

*Dr. S. Ramabalan*

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611002.  
Nagapattinam (C) Tamil Nadu.

*Dr. S. Ramabalan*  
**PRINCIPAL**





**TITLE OF THE EVENT : MACHINE LEARNING EVENT**

**DATE : 18/02/2020 to 22/02/2020**

**EVENT TYPE : FDP**

**RESOURCE PERSON**

Prof.S.Sridharan M.E,PhD.,  
Assistant Professor  
Department of Computer Science and Engineering  
University of Thirukkuvallai

**CHIEF GUEST FOR VALEDICTION**

Mrs. N. Easwari, M.E.,  
Project management Graduate,  
Conventry university,  
London.

**CO-ORDINATOR**

- 1.Prof.P.Vennila,M.E.,  
AP/CSE
2. Prof.S.Praveen kumar,M.E.,(Ph.D)  
AP/CSE

**CONVENER**

Prof. Dr. M. Chinnadurai.,  
Prof & Head/CSE

**ATTESTED**

**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S. PILLAY ENGINEERING COLLEGE(AUTONOMOUS), NAGAPATTINAM**

**DEPARTMENT OF CSE**

**FACULTY DEVELOPMENT PROGRAM ON MACHINE LEARNING**

**18-02-2020 TO 22-02-2020**

**CONTENTS**

1. Requisition Letter
2. Registration Form
3. Response for Registration Form
4. Resource Person Details
5. Invitation to Resource Person and Chief Guest
6. Feedback Form
7. Response for Feedback Form
8. Screenshot and Attendance
9. Certificates

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**

**E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CIRCULAR**

**EGSPEC/CSE/JAN 2020**

**10.02.2020**

Greetings from Department of CSE. We are going to organize "Five days ONLINE FDP on MACHINE LEARNING" on 18.02.2020 to 22.02.22. In this regard all teaching staff members of our institution are requested to attend this FDP



*M. S. D.*

**HOD**

HEAD OF THE DEPARTMENT  
DEPARTMENT OF CSE  
E.G.S. Pillay Engineering College,  
Nagapattinam - 611 002

CC to: The secretary, All Hods, COE, Office File

**ATTESTED**

*S. Ramabalan*  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**



2/07/2020

E.G.S. Pillay Engineering College Mail - Greetings from E.G.S Pillay Engineering College, Department of CSE

18/02/2020

E.G.S. Pillay Engineering College Mail - Google meet link for FDP on Machine Learning



VENNILA P CSE <[vennila@egspec.org](mailto:vennila@egspec.org)>

## Google meet link for FDP onMACHINE LEARNING

1 message

VENNILA P CSE <[vennila@egspec.org](mailto:vennila@egspec.org)>  
6:00PM To: ESWARI N <[eswari\\_natraj@yahoo.co.in](mailto:eswari_natraj@yahoo.co.in)>

Sat, Feb 18, 2020 at

Greetings from E.G.S Pillay Engineering College(Autonomous),Department of Computer Science and Engineering , Nagapattinam - 611002, Tamilnadu, India. We are happy to share the Google meet link for FDP on "MACHINE LEARNING" on 18/02/2020 and inviting to attend this FDP as chief guest for valediction.

We are happy to see your presence on tomorrow.

To join the video meeting, click this link:<https://meet.google.com/odv-jqhn-qcz>


To join by phone instead, dial (US) +1 404-465-3435 and enter this PIN: 860 000 957#

Thanks and best regards

<https://mail.google.com/mail/u/1?ik=905ce678d4&view=pt&search=all&permthid=thread-a%3Ar3773733284761664552&simpl=msg-a%3Ar-84342057...>

/1

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

<https://mail.google.com/mail/u/1?ik=905ce678d4&view=pt&search=all&permthid=thread-a%3Ar-6403064208545414627&simpl=msg-a%3Ar82884125...> 2/2

2/18/2020

E.G.S. Pillay Engineering College Mail - Seeking permission to conduct FDP on 18/02/2020

From

Prof. P.Vennila, AP/CSE  
Prof. S.Praveen kumar, M.E., (Ph.D) AP/CSE  
EGS Pillay Engineering College  
Nagapattinam

To

Prof. Dr.M.Chinnadurai, M.E, PhD.,  
Professor and head,  
Department of Computer Science and Engineering  
EGS Pillay Engineering College, Nagapattinam

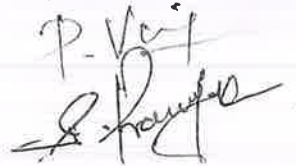
Sir

Sub: Seeking permission to conduct FDP - Reg

We are happy to inform you that we planned to organize FDP on "MACHINE LEARNING" on 18/02/2020 to 22/02/2020. Herewith we enclosed proposal for your reference. Kindly give permission to conduct this FDP.

Thanking you

Yours truly  
(Event Coordinator(s))




HOD



PRINCIPAL

ATTESTED

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

2/07/2020

E.G.S. Pillay Engineering College Mail - Greetings from E.G.S Pillay Engineering College, Department of CSE



VENNILA P CSE <vennila@egspec.org>

**Greetings from E.G.S Pillay Engineering College, Department of CSE**

3 messages

VENNILA P CSE <vennila@egspec.org>  
To: [eswari\\_natraj@gmail.com](mailto:eswari_natraj@gmail.com)

Sat, Feb 18, 2020 at 9:30PM

From

Prof.P.Vennila, AP/CSE

Prof.S.Praveenkumar,AP/CSE

EGS Pillay Engineering College  
Nagapattinam

Respected Sir

We are happy to inform you that we have planned to organize FDP on  
"MACHINE LEARNING" on 18/02/2020 to 22/02/2020 on behalf of our department.

We request you kindly to valedict this FDP and awaiting your reply. Herewith we havementioned event details for  
your reference.

Thanking you

Yours

  
HOD  
PRINCIPAL

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL

**E.G.S. Pillay Engineering College,**  
Thethi. Nagore - 611 002.  
Nagapattinam (Dt) Tam.

2/18/2020

E.G.S. Pillay Engineering College Mail - Seeking permission to conduct FDP on 18/02/2020

From

Prof. P.Vennila, AP/CSE  
Prof. S.Praveen kumar, M.E., (Ph.D) AP/CSE  
EGS Pillay Engineering College  
Nagapattinam

To

Prof. Dr.M.Chinnadurai, M.E, PhD.,  
Professor and head,  
Department of Computer Science and Engineering  
EGS Pillay Engineering College, Nagapattinam

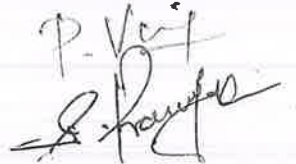
Sir

Sub: Seeking permission to conduct FDP - Reg

We are happy to inform you that we planned to organize FDP on "MACHINE LEARNING" on 18/02/2020 to 22/02/2020. Herewith we enclosed proposal for your reference. Kindly give permission to conduct this FDP.

Thanking you

Yours truly  
(Event Coordinator(s))



HOD



PRINCIPAL

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

2/07/2020

E.G.S. Pillay Engineering College Mail - Greetings from E.G.S Pillay Engineering College, Department of CSE

---

Eswari N <eswari\_natraj@gmail.com>

7 Feb4 2020 at 9:00PM

To: VENNILA P CSE <vennila@egspec.org>

Hi Vennila,

I received the invitation, I am really excite to attend the session... Thanks for invite.

[Quoted text hidden]

---

VENNILA P CSE <vennila@egspec.org>

Sa, Feb 10, 2020 at 9:45AM

To: Eswari N <eswari\_natraj@gmail.com>

Thank you very much mam for your acceptance.  
I will share the Google meet link for FDP shortly.

Thanks and best regards

[Quoted text h

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Theethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

2/18/2020

E.G.S. Pillay Engineering College Mail - Seeking permission to conduct FDP on 18/02/2020



VENNILA P CSE<[vennila@egspec.org](mailto:vennila@egspec.org)>

---

**permission to conduct FDP on 18/02/2020**

2 messages

---

VENNILA P CSE<[vennila@egspec.org](mailto:vennila@egspec.org)>  
hodcse@egspec.org

Feb 10, 2020 at 8:45 PM To:

From

Prof.P.Vennila, AP/CSE

Prof.S.Praveenkumar,AP/CSE

EGS Pillay Engineering College  
Nagapattinam

To

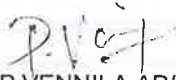
Prof. Dr. M. Chinnadurai, M.E,  
PhD., Professor and head,  
Department of Computer Science and  
Engineering EGS Pillay Engineering College  
Nagapattinam

Sir

Sub: Seeking permission to conduct FDP - Reg


We are happy to inform you that we planned to organize FDP on "MACHINE LEARNING" on 18/02/2020 to 22/02/2020 on behalf of our department. Herewith we enclosed a proposal and budget for your reference. Kindly give permission and sanction the budget to conduct this FDP.

Thanking you

  
Prof P.VENNILA AP/CSE  
9150132532

Prof S.Praveen kumar Prof/CSE  
9494074287

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore  
Nagapattinam (Dt, Nagapattinam).**

### Event details and Budget

#### 1. Event Details

Title of the Event	MACHINE LEARNING
Event Date	18/02/2020 to 22/02/2020
Event Type	FDP
Participants	Faculties
Resource Person	Prof.S.Sridharan M.E,PhD., Assistant Professor Department of Computer Science and Engineering University of Thirukkuvallai-610204
Chief guest for valediction	Mrs. N. Easwari, M.E., Project management Graduate, Conventry university, London
Venue	Google meet
Event Coordinator(s)	1.Prof.P.Vennila,M.E., AP/CSE 2. Prof.S.Praveen kumar,M.E.,(Ph.D) AP/CSE
Convener	Prof. Dr. M. Chinnadurai, Prof & Head/CSE

#### 2. Budget Details:

S.No	Criteria	Amount
01	Brochure and Advertisement	-
02	Honorarium for Resource Person	4000
	<b>Total</b>	<b>Rs 4000/-</b>

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**  
**DEPARTMENT OF CSE**  
**(Approved by AICTE, Affiliated to Anna University)**  
**(Accredited by NBA)**  
**(Accredited by NAAC with "A" Grade)**  
**(An ISO 9001:2015 Certified Autonomous Institution)**  
**FDP on "MACHINE LEARNING"**

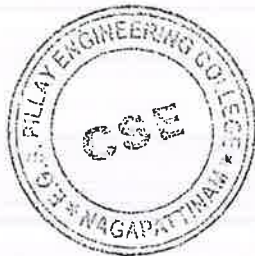
**Submission of Proposal**

**1. Event Details**

Title of the Event	FDP on Machine learning
Event Date	18/02/2020 to 22/02/2020
Event Type	FDP
Participants	Faculties
Resource Person	Prof.S.Sridharan M.E,PhD., Assistant Professor Department of Computer Science and Engineering University of Thirukkuvallai-610204
Chief guest for valediction	Mrs. N. Easwari, M.E., Project management Graduate, Conventry university, London.
Venue	Google meet
Event Coordinator(s)	1.Prof.P.Vennila,M.E., AP/CSE 2. Prof.S.Praveen kumar,M.E.,(Ph.D) AP/CSE
Convener	Prof. Dr. M. Chinnadurai, Prof & Head/CSE

**3. Budget Details (Approx.):**

S.No	Criteria	Amount
01	Brochure and Advertisement	-
02	Honorarium for Resource Person	5000
<b>Total</b>		<b>Rs 5000/-</b>



*S. Praveen Kumar*  
Event Coordinator(s)

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002,**  
**Nagapattinam (Dt) Tamil Nadu.**



# FDP ON MACHINE LEARNING

Greetings from E.G.S Pillay Engineering College(Autonomous), Department of Computer Science and Engineering , Nagapattinam - 611002, Tamilnadu, India. We are happy to inform you that we have planned to organize FDP on "MACHINE LEARNING" on 18/02/2020 to 22/02/2020 and inviting to attend this FDP.

Chief guest for valediction:

Ms.N.Easwari,M.E.,  
PROJECT MANAGEMENT GRADUATE,  
CONVENTRY UNIVERSITY  
LONDON

Resource person:

Prof. S.Sridharan M.E,PhD.,Assistant Professor  
University college of Engineering  
Thirukkuvilai

Coordinators:

1. Prof.P.Vennila, M.E.,AP/CSE  
9150132532
2. Prof.S.Praveenkumar,M.E.,(Ph.D)  
AP/CSE  
9940742877

Convener:

Prof. Dr. M. Chinnadurai,  
Prof & Head/CSE

ATTESTED



Dr. S. RAMABALAN, M.E., Ph.D.  
PRINCIPAL

E.G.S. Pillay Engineering College.  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## BIO-DATA

**N.ESWARI**

Mobile. No: 7639272814

Email:eswari\_natraj@yahoo.co.in



### OBJECTIVE

Self-directed, enthusiastic educator with a passionate commitment to student development and the learning experience. Skilled in the design of challenging, enriching and innovative activities that address the diverse interests and needs of students.

### EDUCATIONAL QUALIFICATIONS

- Completed Master Of Computer Science and Engineering in 2012 at Periyar Maniammai University,Thanjavur with the CGPA **8.29**
- Completed B.E Computer Science and Engineering in 2007 at Periyar Maniammai College of Technology for Women(Under Anna University),Thanjavur with the percentage of **71**
- Completed 12<sup>th</sup> in 2003 at Nirmala Girls Higher Secondary School,Ariyalur with the percentage of **84**
- Completed 10<sup>th</sup> in 2001 at Nirmala Girls Higher Secondary School,Ariyalur with the percentage of **87**

### AREAS OF INTEREST

- Artificial Intelligence
- Data Mining
- Computer Networks

### TECHNICAL EXPERTISE

- Programming language : C,C++,Vb6.0,ASP,PHP,Vb.net
- Database : MS Access,MySQL,Oracle, SQL Server2000 & 2005

### PROJECT DETAILS

Title : **Keystroke Biometrics with Number-Pad Input Using Hybridization of Adaboost with Random Forest**

Team Size : Individual

Tools Used : Vb.net & SQL Server2005

Description : The main objective of this project is to enhance the password authentication based on the keystroke event captured from the keyboard input.

ATTESTED

A handwritten signature in blue ink, appearing to read 'Dr. S. Ramabalan'.

**Dr. S. RAMABALAN**, M.E., Ph.D.,  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thathi, Nagore - 611 002  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S. PILLAY ENGINEERING COLLEGE  
(AUTONOMOUS)**

Old Nagore Road, Thethi, Nagore Village, Nagapattinam – 611002

**DEPARTMENT OF MECHANICAL ENGINEERING**



**Report**

**Two Days Hands on Training program**

**on**

**Assembly of IC Engines**

**08.07.2019 to 09.07.2019**

**E.G.S. PILLAY ENGINEERING COLLEGE, Nagapattinam**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Non-Teaching Training Program**

Title: Hands on Training on Assembling of IC engine

S. No.	Content
1.	Report
2.	Approval letter from Principal
3.	Proposed Budget
4.	Circular
5.	Schedule
6.	Attendance
7.	Course material
8.	Photos
9.	Feedback from participants
10.	Certificates



E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM  
(Autonomous)  
Accredited by NAAC with 'A' Grade  
Department of Mechanical Engineering  
(Accredited by NBA)

A REPORT ON TWO DAY TRAINING PROGRAM  
ON  
ASSEMBLING OF IC ENGINES

The department of Mechanical Engineering, E.G.S. Pillay Engineering College, Nagapattinam organized a training program for non-teaching faculty members of E.G.S. Pillay group of institutions on 08.07.2019 and 09.07.2019. The program was entitled as "Hands on Training on Assembling on IC engine". The coordinator for this program was Mr. G. Sundaravadivel, Assistant Professor, Department of Mechanical Engineering.

The session was inaugurated by the Hon'ble secretary of the Institution Shri.S.Pamesvaran, and the E. G. S. Pillay trust member Mr. S. Sankarganesh, Principal Dr. S. Ramabalan and Controller of Examination Dr. M. Chinnadurai. The Prof.G. Sundaravadivel welcomed the gathering and followed by inaugural speech by Dr. G. Gurumoorthi, HOD/MECH.

The training session was handled by the internal expert member Dr. G. Gurumoorthi, Professor/MECH. Initially, a lecture session was given on the basics, construction and working of an IC engine. The lecture enabled the participants to understand about the IC engine parts and its working. Then, a hands-on training session was given to the participants on the disassemble and assembly of the IC engine.

Finally, certificates were distributed to all the participants and vote of thanks was given by Prof. G. Sundaravadivel of the department of mechanical.

  
PROGRAM COORDINATOR

ATTESTED  
  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

  
HOD/MECH



From

Dr.G. Gurumoorthi,  
Head of the department,  
Department of Mechanical Engineering,  
E.G.S Pillay Engineering College,  
Nagapattinam.

To

The principal,  
E.G.S Pillay Engineering College,  
Nagapattinam.



Sub: Request for permission to conduct training program for non- teaching staff- reg

Respected sir,

As per the instruction from management, the department of Mechanical engineering has planned to conduct a training program on "Hands on training on Assembling of IC engine" for the non-teaching staff of mechanical engineering. So, in this context I kindly request to avail permission to pursue the program in the month of July 2019.

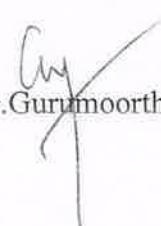
Thanking You,

Yours truly,

Date:01.07.2019

Place: Nagapattinam

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

  
(Dr. G. Gurumoorthi)

**E.G.S. PILLAY ENGINEERING COLLEGE, Nagapattinam**

**DEPARTMENT OF MECHANICAL ENGINEERING**


Title: Hands on Training on Assembling of IC engine

Date: 08.07.2019&09.07.2019

**PROPOSED BUDGET**

S. No.	ITEMS DESCRIPTION	QUANTITY REQUIRED	AMOUNT / QUANTITY (Rs.)	ESTIMATED AMOUNT (Rs.)
1.	Tea & Snacks	12*(4 sessions)	15	720
2.	Flex	1	350	350
3.	Report preparation	1	250	250
4.	Certificate	6	30	250
5.	Food for Participants & Organizers	12*(2 sessions)	80	1920
<b>Total Amount</b>				<b>3490</b>

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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Program Coordinator

  
HoD/Mech



**E.G.S. PILLAY ENGINEERING COLLEGE,  
NAGAPATTINAM**

**Department Of Mechanical Engineering**


**Circular**

Date: 02.07.2019

It is hereby informed to the non teaching staffs of the department of mechanical engineering that the department of mechanical engineering is planned to conduct a **hands on training on Assembling of IC engines** for two days from 08.07.2019 – 09.07.2019. All the non- teaching staffs of department of mechanical engineering are instructed to attend the program without fail.

ATTESTED

  
**Dr. S. RAMABALAN, M.E., Ph.D.,  
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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

  
HOD/Mech

Copy to:

The Secretary, The Joint secretary, The Principal, Office file and Department file



**E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Non-Teaching Training Program**

**Title:** Training Program on Assembling of IC Engines

**Date:** 08.07.2019 and 09.07.2019

**1. PROGRAM SCHEDULE:**


S.NO	DATE	SESSION	COURSE DESCRIPTION	BENEFICIARIES
1	08.07.2019.	FN	Introduction to fire and safety	Non-teaching staffs of department of Mechanical, Civil and EEE
		AN	Fire and prevention plans, fire fighting	
2	09.07.2019.	FN	Fire extinguisher safety and chemical storage and handling	
		AN	Laboratory safety	

**2. PARTICIPANTS DETAILS:**

PARTICIPANTS DETAILS	MAXIMUM NUMBER OF PARTICIPANTS
All Technical Assistant/Supporting staff	20

**3. RESOURCE PERSONS:**

RESOURCE PERSON	CONVENER	PROGRAM COORDINATOR
Dr. G. Gurumoorthi, Professor/MECH	Dr. G. Gurumoorthi, Professor and HOD/MECH	Mr. G. Sundaravadivel, Assistant Professor/MECH

  
Program coordinator

**ATTESTED**  
  
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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**HOD**  


**E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**TRAINING PROGRAM FOR NON – TEACHING STAFF**

**ATTENDANCE**

S.NO	STAFF NAME	DEPARTMENT	08.07.2019		09.07.2019	
			FN	AN	FN	AN
1	Mr.S.Sakthivel	MECHANICAL	<i>JS</i>	<i>JS</i>	<i>JS</i>	<i>JS</i>
2	Mr.S.Venkatesan	MECHANICAL	<i>SV</i>	<i>SV</i>	<i>SV</i>	<i>SV</i>
3	Mr.K.Rajasekaran	MECHANICAL	<i>KR</i>	<i>KR</i>	<i>KR</i>	<i>KR</i>
4	Mr.G.Chellappa	MECHANICAL	<i>GC</i>	<i>GC</i>	<i>GC</i>	<i>GC</i>
5	Mr.V.Ramu	MECHANICAL	<i>VR</i>	<i>VR</i>	<i>VR</i>	<i>VR</i>
6	Mr.K.Balamurugan	MECHANICAL	<i>BM</i>	<i>BM</i>	<i>BM</i>	<i>BM</i>

*[Signature]*  
**COURSE COORDINATOR**

**ATTESTED**  
*[Signature]*  
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**PRINCIPAL**  
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Nagapattinam (Dt) Tamil Nadu.

*[Signature]*  
**HOD / MECH**

# Objectives

- Label and organize parts prior to engine removal
- Remove an engine from a vehicle in a safe and methodical manner
- Disassemble the engine following the correct procedures
- Keep parts organized for reassembly
- Inspect and interpret causes internal engine wear

# Introduction

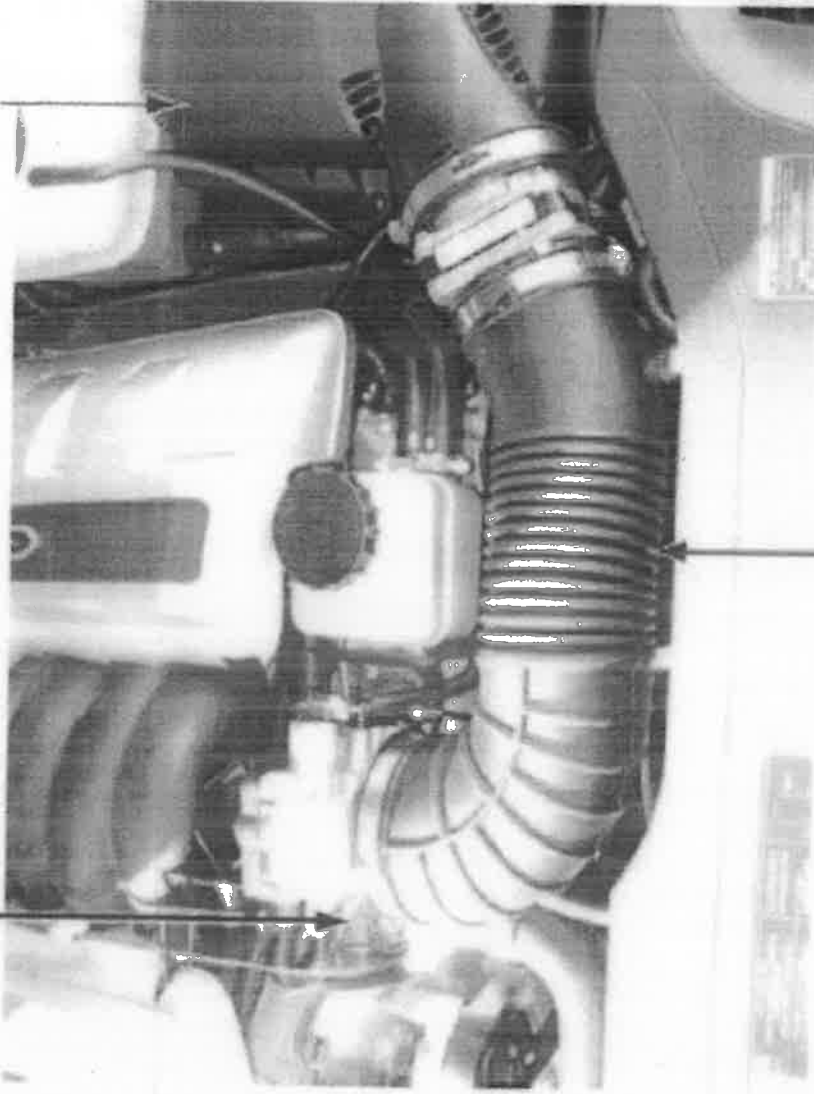
- Procedures must be followed carefully
  - Parts must be removed and inspected in an orderly manner
    - You cannot hurry
    - Signs of wear can be clues
    - Correct repair will prevent the problem from occurring again
  - Be sure to consult the applicable repair manual
    - Procedures differ

# Engine Removal

- Important steps
  - Disconnect battery cables
  - Remove the hood
  - Remove air cleaner
  - Label all wires and vacuum lines
  - Drain coolant and oil
  - Remove the radiator
  - Remove the distributor and spark plug wiring
  - Remove the direct current (DC) generator
  - Remove the heater hoses and ground strap

Throttle

Air cleaner



Air cleaner hose

**Figure 50.1** Remove the air cleaner and hose. Be careful not to crack the hose.

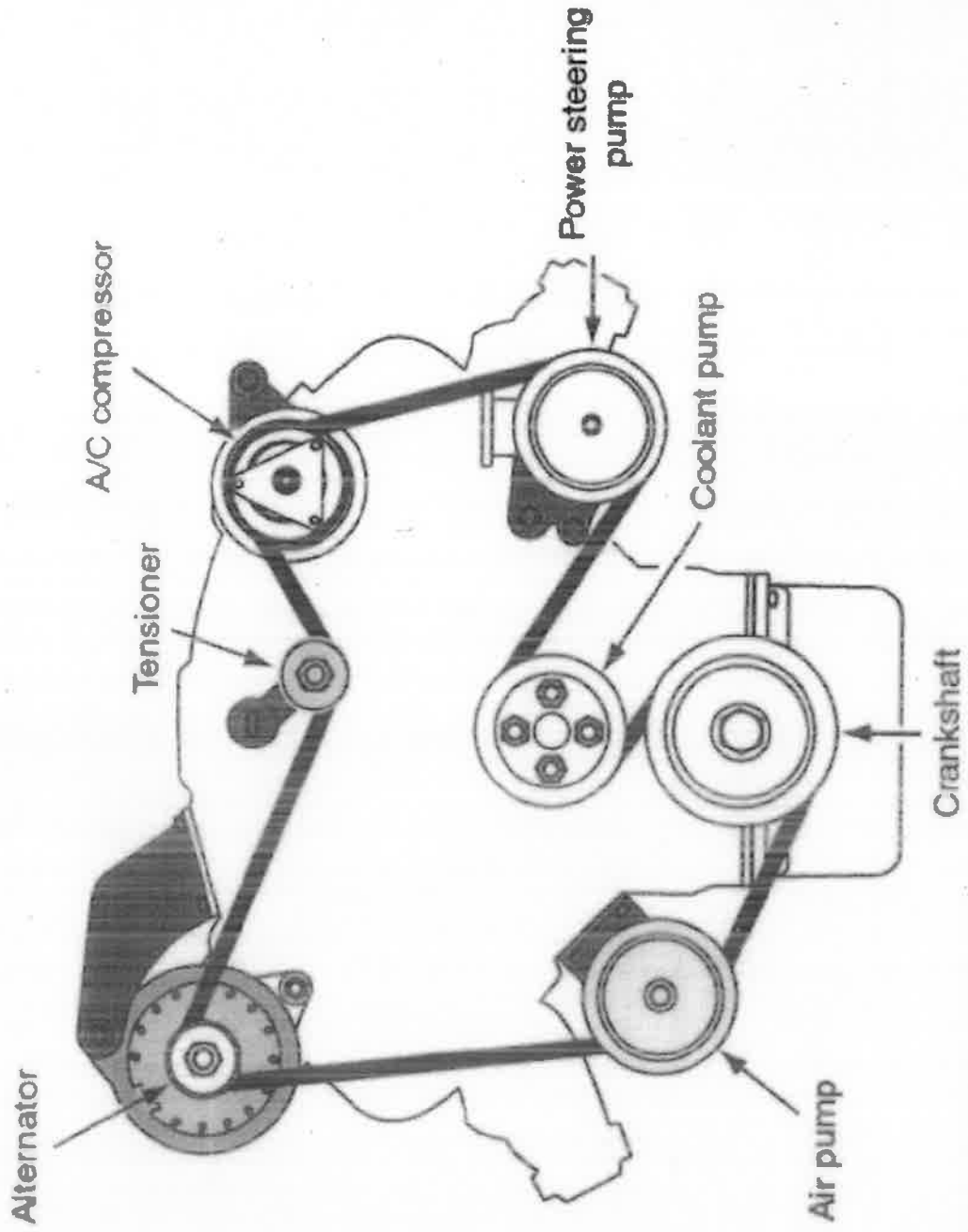
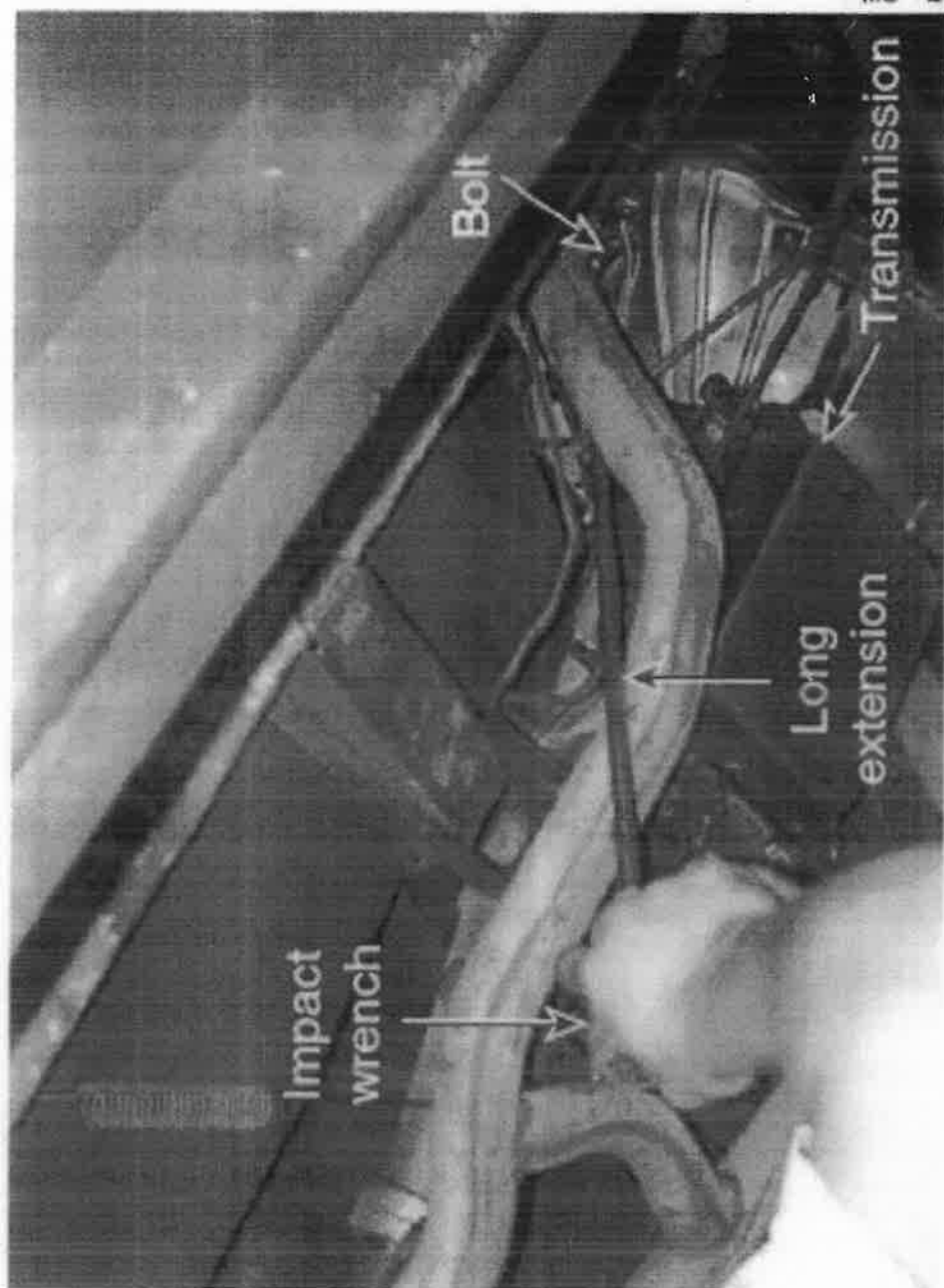


Figure 50.5 Remove the alternator and air pump.

## Engine Removal (cont'd.)

- Remove switches and sensors
- Remove the throttle linkage, cable, or wiring
- Mark accessory brackets and remove accessories
- Remove exhaust components
- Remove and plug the fuel line
- Determine whether to remove the transmission
- Separate the engine and transmission/transaxle
- Unbolt the engine mounts





Tom Gilkes

**Figure 50.22** This tool setup is good for removing top transmission-to-engine bolts.

## Engine Removal (cont'd.)

- Remove the engine from the vehicle
- Remove transaxle (if necessary)
  - Remove lower ball joints
    - Have drain pan ready
  - Disconnect speedometer cable, transmission shift linkage, and clutch cable
  - Attach a sling to the engine and transaxle assembly
  - Remove bolts
  - Roll shop crane until the engine can be lowered safely

# Engine Disassembly

- Important steps
  - Remove clutch parts
  - Remove hybrid armature (puller required)
  - Mount engine to a stand
  - Remove coolant pump
  - Remove oil pan
  - Remove valve covers
    - Slip a knife blade between head and sheet metal valve cover
    - Tap a curved, strong area with a rubber mallet

# Engines with Pushrods

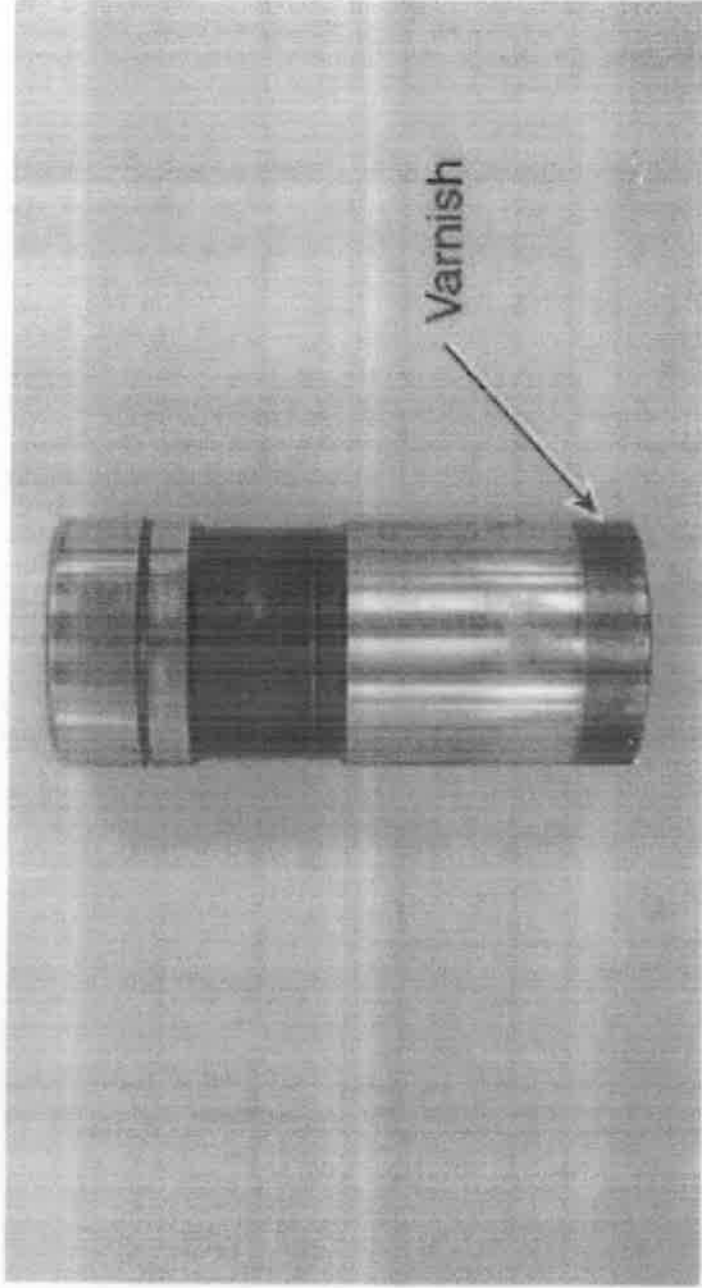
- Stud mounted rockers
  - Loosen nuts on studs before disassembly and cleaning
  - Turn rocker arms to the side to remove the pushrods
  - After heads are cleaned they can be removed one at a time
  - Keep pushrods in order

# Engines with Pushrods (cont'd.)

- Shaft-mounted rockers
  - Should be loosened slowly and evenly
  - Remove the pushrods
  - Pushrods can be pushed through holes made in a piece of cardboard
  - Pushrods must be kept in order

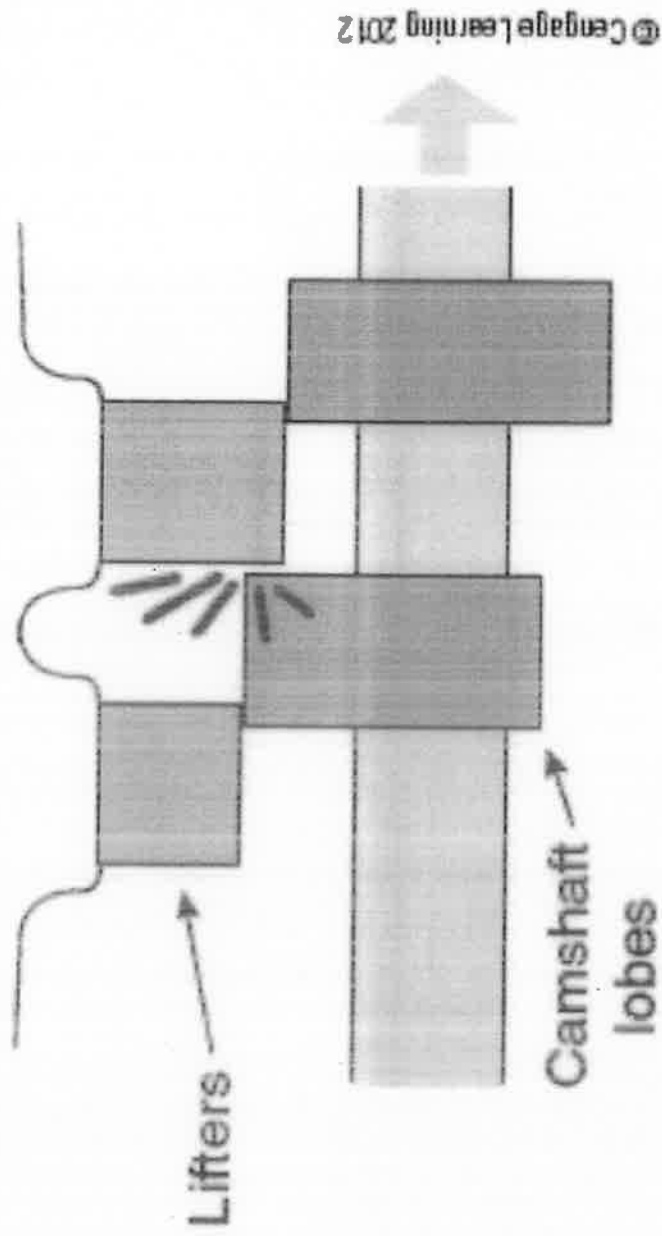
# Engines with Pushrods (cont'd.)

- Valve lifters
  - Remove valve lifters
  - Wipe oil off bottom of lifters
  - Label with a felt marker
  - Reused flat tappers must be used on original cam lobe
  - Usually replaced
- Roller lifters are usually reusable
- Use chemical cleaner to soften varnish



Tim Gilles

**Figure 50.40** Varnish buildup on the bottom of a lifter.



**Figure 50.41** The lifters must be moved high enough in their bores to allow the cam to be removed.

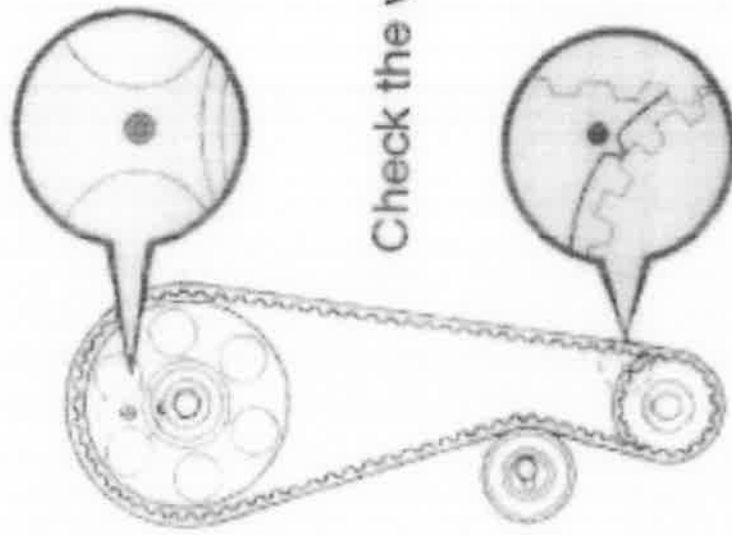


# Engines with Pushrods (cont'd.)

- Pushrod engine camshaft
  - Some pushrod engines use bolt-on cam thrust plate
  - Varnish may build up on edges of cam journals
    - Makes it difficult to remove the cam
- Vibration damper removal
  - Most engines have a bolt that holds it on the crankshaft
    - Some will slip off after the bolt is removed
  - Others are pressed-fit

# Overhead Cam Cylinder Head Removal

- Important steps
  - Position the number one piston at TDC and note the location of timing marks
  - Compare the sketch in the repair manual to the marks on the timing belt
  - Draw a sketch of the cam timing
  - Remove timing cover



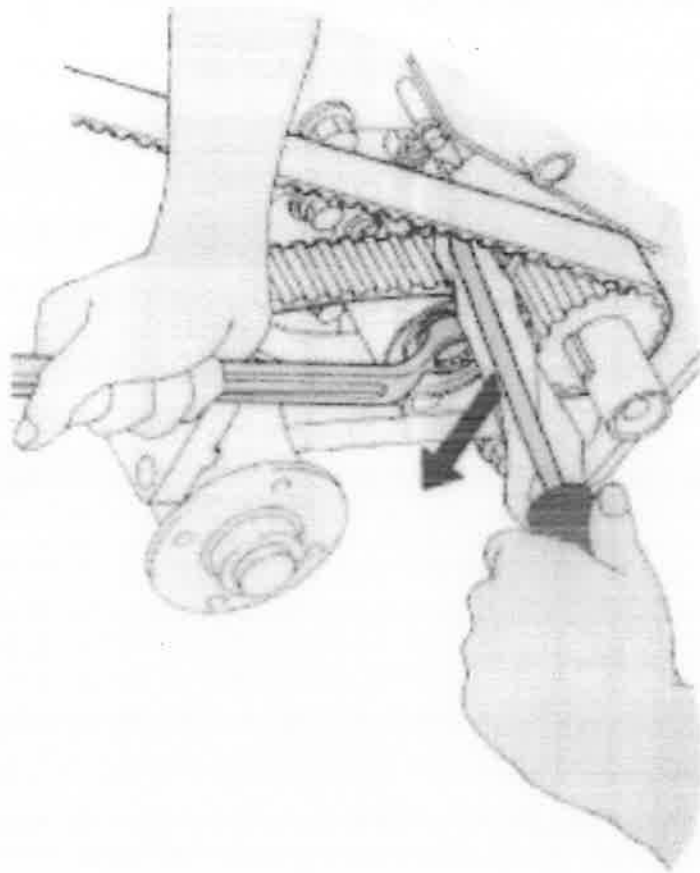
© Cengage Learning 2012

**Figure 50.45** Align the timing marks for the camshaft and crankshaft sprockets before removing the timing belt or chain.

# Overhead Cam Engines

## (cont'd.)

- Remove the cam drive assembly
- Pushrod engines
  - Unbolt cam sprocket and slide or pry off the cam
  - Remove the chain
  - Reinstall sprocket and tighten one bolt finger tight
- Overhead cam engines
  - Remove the chain or bolt tensioner



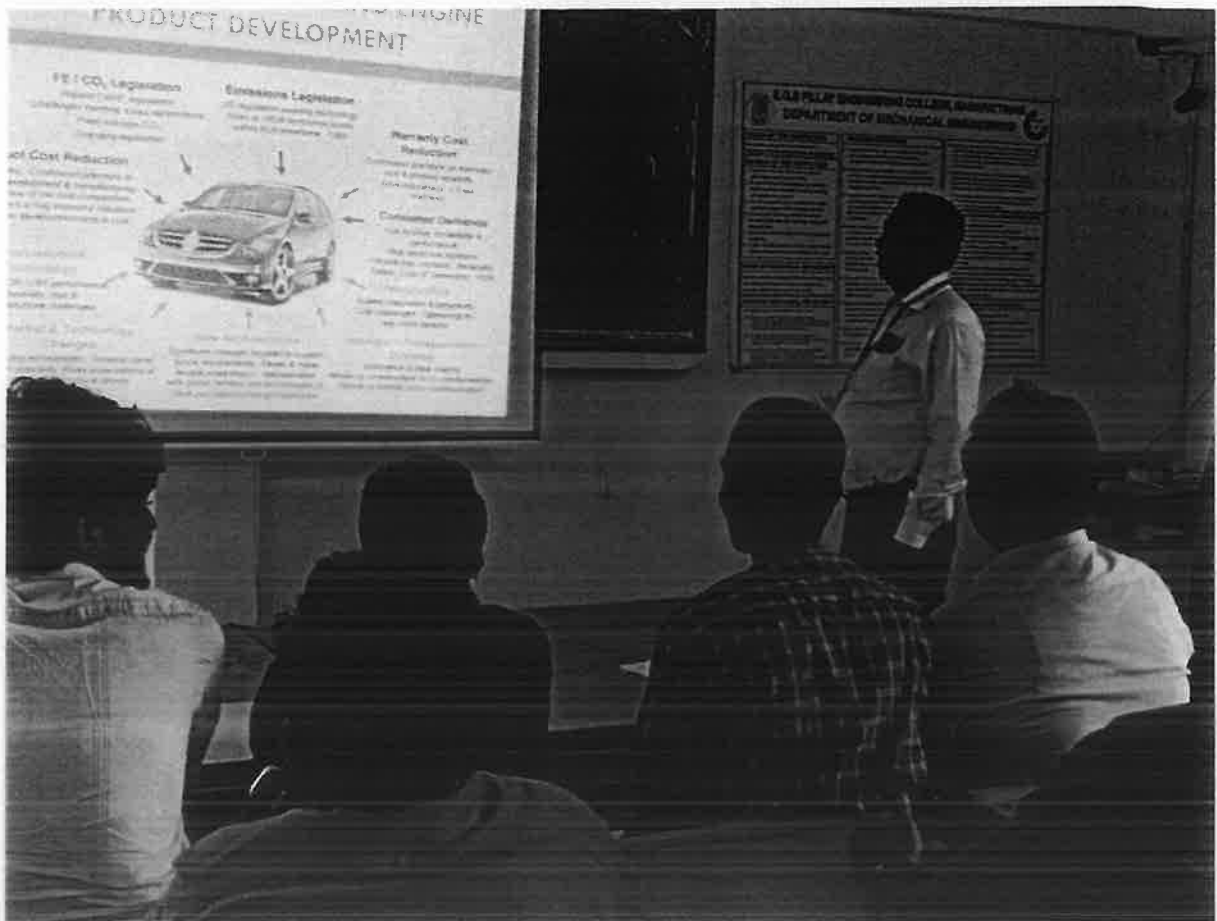
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**Figure 50.46** This timing belt has a spring-loaded tensioner. Loosen the tensioner bolt, pry it away from the belt, and retighten the bolt.

# Overhead Cam Engines

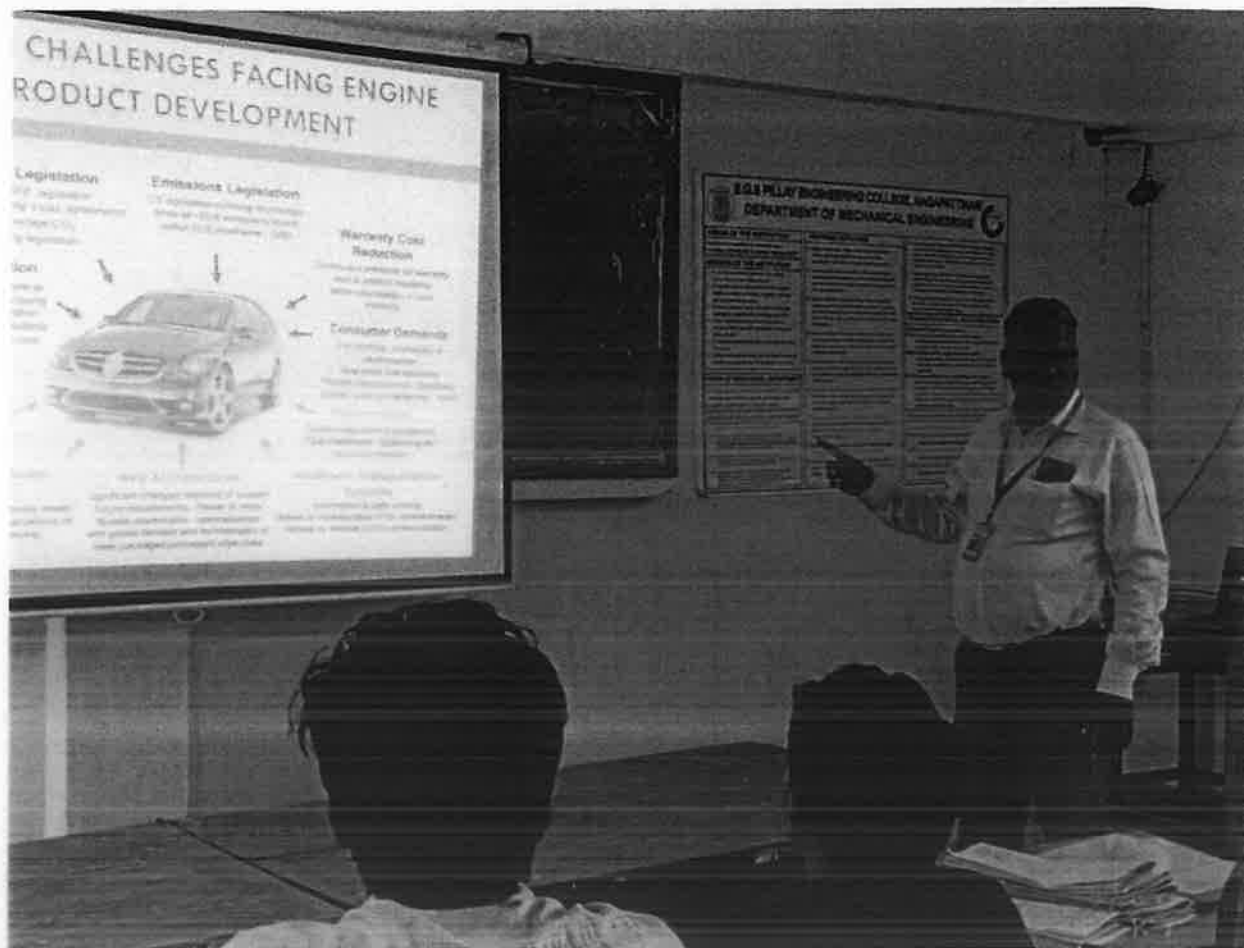
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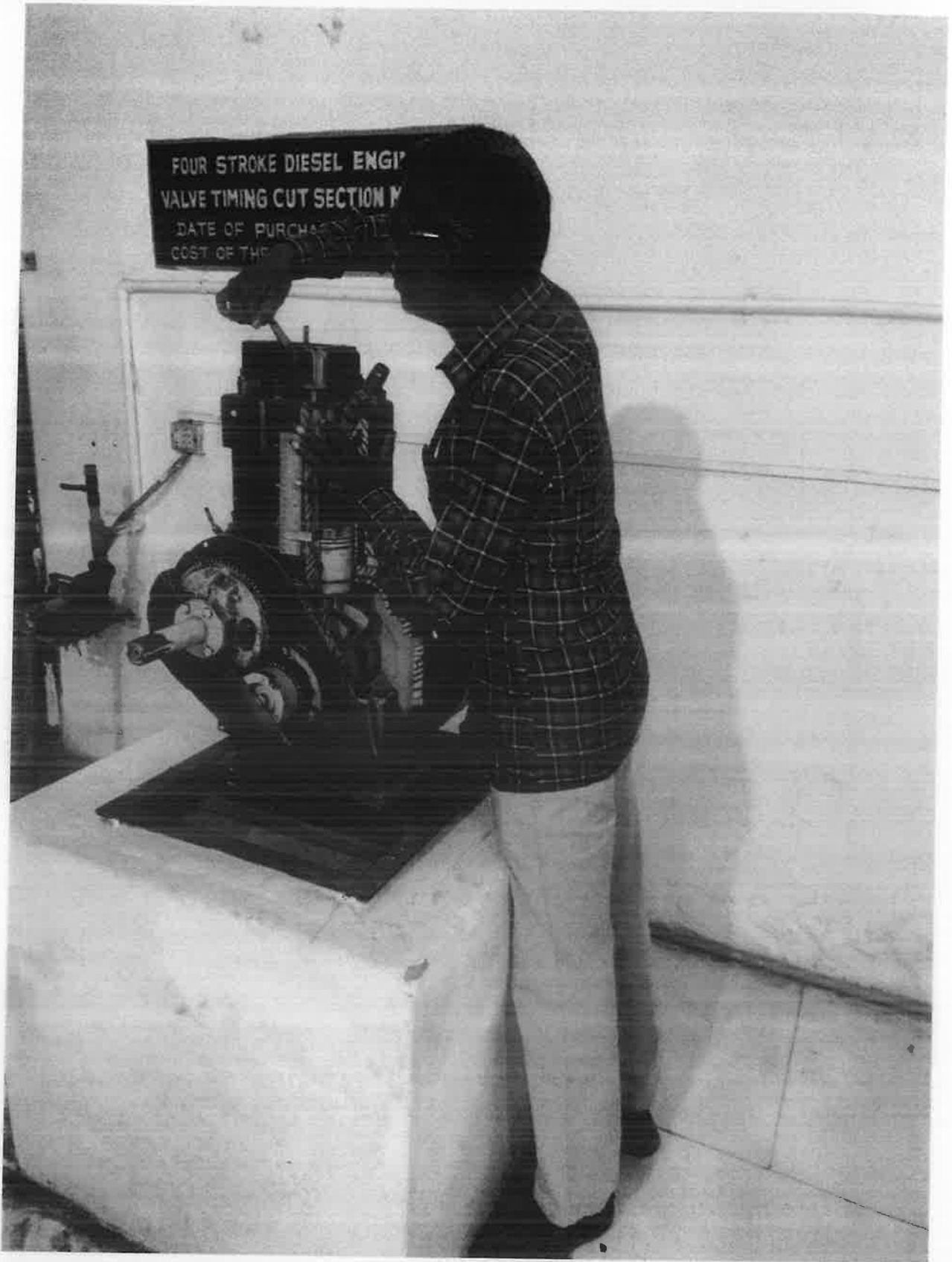
- Remove the cylinder heads
  - Mark one of the cylinder heads "left" or "right" if there is more than one
  - Be careful not to break a casting
- Inspect the head gasket
  - Evidence of coolant or oil leakage
  - Signs of detonation











FOUR STROKE DIESEL ENGI  
VALVE TIMING CUT SECTION M  
DATE OF PURCHASE  
COST OF THE



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Counselling Code : 3806

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## **DEPARTMENT OF MECHANICAL ENGINEERING**

### Certificate of Participation

**This is to certified that Mr.Ms. S.SARTHIVEL has participated in "Hands on training on Assembly of IC Engine" organized by Department of Mechanical Engineering, EGSPEC during 08.07.2019 & 09.07.2019.**

*Judharanand*

Program  
Co-ordinator

ATTESTED

*Signature*

*Signature*

Dr.S.RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

Head of the Department  
Principal

Engineering College,  
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Nagapattinam (Dt) Tamil Nadu.



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**This is to certified that Mr./M<sup>rs</sup> S.VENKATESAN has participated in "Hands on training on Assembly of IC Engine" organized by Department of Mechanical Engineering, EGSPEC during 08.07.2019 & 09.07.2019.**

*Jundaravindir*

Program  
Co-ordinator

ATTESTED

*Dr. S. Ramabalan*

Dr. S. RAMABALAN, M.E., Ph.D.,  
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*Principal*

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**This is to certified that Mr./Ms. K. RAJASEKARAN has participated in "Hands on training on Assembly of IC Engine" organized by Department of Mechanical Engineering, EGSPEC during 08.07.2019 & 09.07.2019.**

*Jundaravandir*

Program  
Co-ordinator

ATTESTED

Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

Head of the Department of Mechanical Engineering College,  
Thethi, Nagore - 611 002.  
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**This is to certified that Mr./Mrs G. CHELLAPPA has participated in "Hands on training on Assembly of IC Engine" organized by Department of Mechanical Engineering, EGSPEC during 08.07.2019 & 09.07.2019.**

*Sundaravandana*

Program  
Co-ordinator

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Head of the Department  
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*Jundaravind*

Program  
Co-ordinator

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*[Signature]*

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*Jundaravind*

Program  
Co-ordinator

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**(An Autonomous Institution affiliated to Anna University,  
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**Old Nagore Road, Thethi, Nagore Village, Nagapattinam – 611002**

## **Report**

**Online webinar**

**on**

**Rectangular Tunnel Boring Machine**

**14.06.2020**

**Organized by**

**DEPARTMENT OF MECHANICAL ENGINEERING,**

**E.G.S. PILLAY ENGINEERING COLLEGE**

**Nagapattinam-611002**

**E.G.S. PILLAY ENGINEERING COLLEGE, Nagapattinam**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Webinar program for faculties**

**Title: Rectangular Tunnel Boring Machine**

<b>S. No.</b>	<b>Content</b>
1.	Brochure
2.	Report
3.	Course Material
4.	Attendance
5.	Sample Certificates
6.	Feedback Form
7.	Feedback report



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Department of  
Mechanical Engineering

Time	Date
2.00 pm	14.06.2020

## Proud Alumni Webinar Series

### Rectangular Tunnel Boring Machine



E Certificate  
for  
Participation

**Mr. Vimal Kumar**

(1998-2002 Batch)

QA - QC Manager

China Railway Tunnel Group Ltd.,  
SINGAPORE



Register@

Free Registration

<https://tinyurl.com/egspec-mech3>

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**DEPARTMENT OF MECHANICAL ENGINEERING,**

**E.G.S.PILLAY ENGINEERING COLLEGE**

**ACADEMIC YEAR 2019-2020**

**WEBINAR REPORT**

The Department of mechanical Engineering had organized a webinar through online mode on “**Rectangular Tunnel Boring Machine**” on **14.06.2020** at **02.00 p.m.** Welcome address was given by **Dr. G.GURUMOORTHY**, Head of the Department, Department of Mechanical Engineering, E.G.S.Pillay Engineering College.

Resource person **Dr. S .Krishna Mohan, Professor, Department of Mechanical Engineering**, had given the brief introduction to the webinar and the importance of new techniques evolved in mechanical field which has wide area of applications.

In this webinar, **31** participants from colleges have registered from various institutions. Among these, all the 31 participants have attended the webinar.

Vote of thanks was given by **Mr. N .Ramanujam**, Professor, Department of Mechanical Engineering. All the attended participants gave their feedback after the session and E-certificate have been sent to them through email.

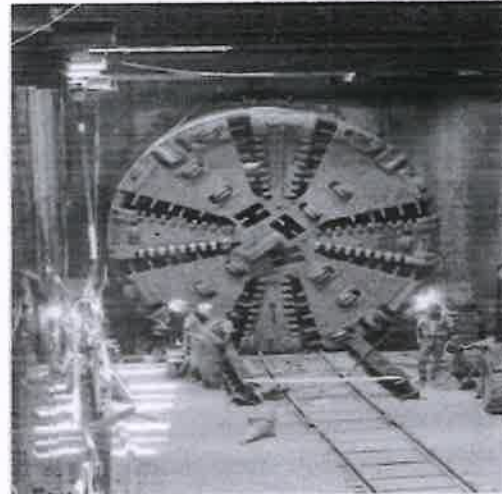
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## NOTES

### Introduction

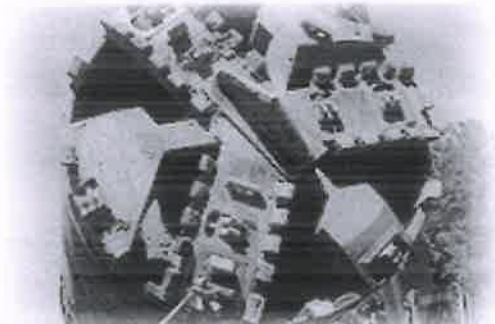
- Tunnel boring machines are used to excavate tunnels with a circular cross-section.
- They can be used on any geologies.
- They can bore tunnels of diameter 1-15 metre.
- It made tunnel boring process risk free.



Tunnel Boring Machine (TBM) Construction

### Soft Ground TBM

- They are of 2 types:
  - 1) Earth Pressure Balance Machines (EPB)
  - 2) Slurry Shield (SS)



An Earth Pressure Balance Machine

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## Tunnel Boring Machine Facts

- **Weight:** 800 tons
- **Length:** 430 ft
- **Motors:** 350 hp electric motor X 8 nos.
- **Energy required:** 50,00,000 watts (@ max output)
- **Cutter edge:** 22ft dia, 60,000 pounds max thrust.



## Types of tunnels

- **Mine Tunnels:**

Mine tunnels are used to transport metal or mineral deposits extracted by mining activity. These tunnels may be roughly build and are made with low cost. They are for temporary use and is unsafe when compared to other types of mines.



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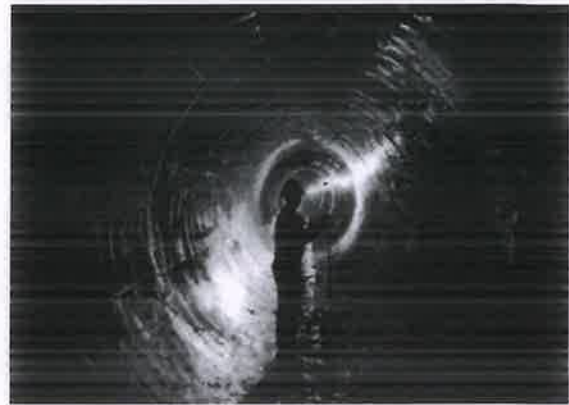
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## Types of tunnels

- **Public works tunnels:**

Public works tunnel carry water, sewage or gas lines across great distances.



## Types of tunnels

- **Transportation tunnels:**

Rail and road transportation through tunnels are common nowadays. They may be through hills or even under oceans. TBMs were used to dig deep canals in olden times.



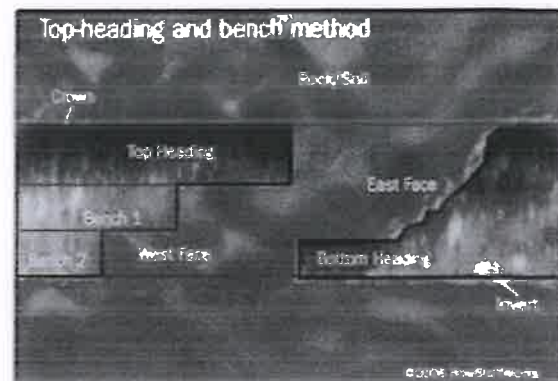
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*[Signature]*  
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## Tunnel construction

- Workers use two methods in tunnel construction. **Fullface mode and top-heading and bench mode.**
- In top-heading and bench mode they first bore a small tunnel, and then we bore underneath it. By this we can understand the stability of rock before moving far forward.



## Tunnel construction

- **Hard rock:**

While boring hard rocks, first workers dig a small hole on rock and place explosives in it. After detonating it, they remove the muck, and repeat the same till it advances a little bit, and it's only then they start the operation using a TBM.

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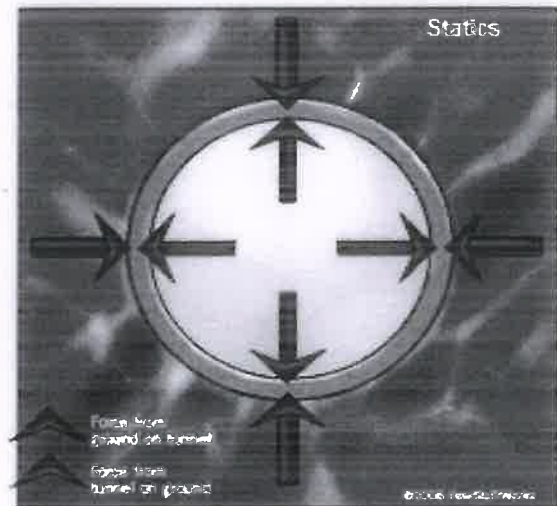
## Tunnel construction

### • Sand ground (Earth)

In this type of excavation people have to dig soft grounds of clay, silt, sand, gravel or mud. Here 'stand-up-time' (how long ground will stand safely by itself) is of extreme importance. Generally for soft grounds, stand-up time is low and there is a risk of cave formation. To avoid this shields are used. They are cylindrical structures in which TBMs are placed. It gives the tunnel a perfect round shape and helps workers to install the permanent cast iron linings.

## Tunnel construction

- Tunnel engineers must be familiar with forces on a tunnel.
- **Tension**, which expands, or pulls on material.
- **Compression**, which shortens or squeezes materials.
- **Shearing**, which causes parts of materials to slide past one another in opposite directions.
- **Torsion**, which twists a material.



ATTESTED

*[Signature]*  
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Nagore Post, Nagapattinam – 611 002, Tamilnadu.

**List of Attended Participants**

S.No	Name of Institute/Organization	ATTENDANCE
1.	Ramabalan S	✓
2.	KrishnaMohan S	✓
3.	Ramanujam N	✓
4.	SivaramaKrishnan V	✓
5.	Sivaraman V	✓
6.	Gurumoorthi G	✓
7.	Jeevamalar J	✓
8.	Chockalingam S	✓
9.	Marimuthu K	✓
10.	Navaneethakrishnan V	✓
11.	Sundar R	✓
12.	ManiKandan B	✓
13.	Surendar G	✓
14.	Manathunai Nathan V	✓
15.	Sundaravadivel G	✓
16.	Hari Narayanan G	✓
17.	Senthil Nathan K	✓
18.	Arun Kumar A	✓
19.	Balasubramanian K	✓
20.	Harish kirthi S	✓
21.	Subramaniyan M	✓
22.	Prabhu N	✓
23.	Muruges S	✓
24.	Manikandan N	✓
25.	Udhayamuthu S	✓
26.	Kathirvelan K	✓
27.	Balaj R	✓
28.	Ashwin Chakravarthy R	✓
29.	Kalaignar P	✓
30.	Ashokkumar G	✓
31.	Ramesh S	✓

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

E.G.S. Pillay Engineering College,  
Thothi, Nagore - 611 002.  
Nagapattinam (TN) Tamil Nadu.

Global  
Webinar Series



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Counselling Code : 3806

# Certificate of Participation



This Certificate is presented to

**{{full name}}**

of

**{{other identifier}}**

for participating in the International Webinar on  
**Rectangular Tunnel Boring Machine**

held on 14<sup>th</sup> June, 2020 conducted by

**Mr. Vimal Kumar , QA / QC Manager,**

**China Railway Tunnel Group Ltd., SINGAPORE**

**Dr. G. Garamoorthy**  
Professor & HOD-Mechanical

**Dr. S. Krishna Mohan**  
Professor & Dean-Mechanical

**Dr. S. Ramabalan**  
Principal

**Dr. S. Chandrasekar**  
CEO-EGSPGOI

Department of Mechanical Engineering

ESPEC-MECH  
{{CERTIFICATE ID}}

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**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Webinar on “Rectangular Tunnel Boring Machine”- 14.06.2020**

**FEEDBACK QUESTIONS**

**1. Content of the program?**

**Excellent**

**Excellent**

**Fair**

**2. Quality of the Audio/ Video Streaming?**

**Excellent**

**Excellent**

**Fair**

**3. Way of Presentation?**

**Excellent**

**Excellent**

**Fair**

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thechi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

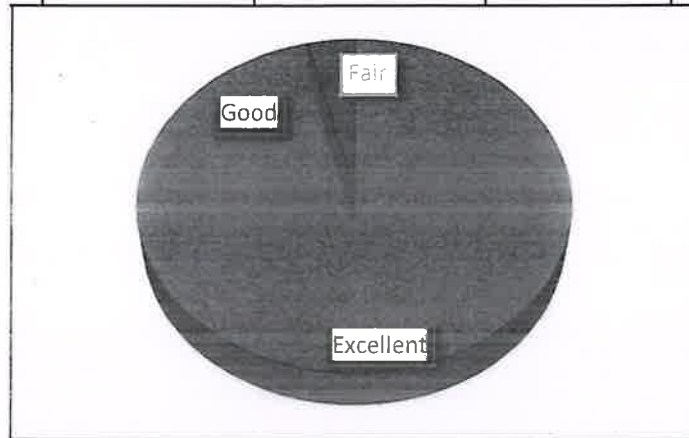


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**Feedback questions and responses**

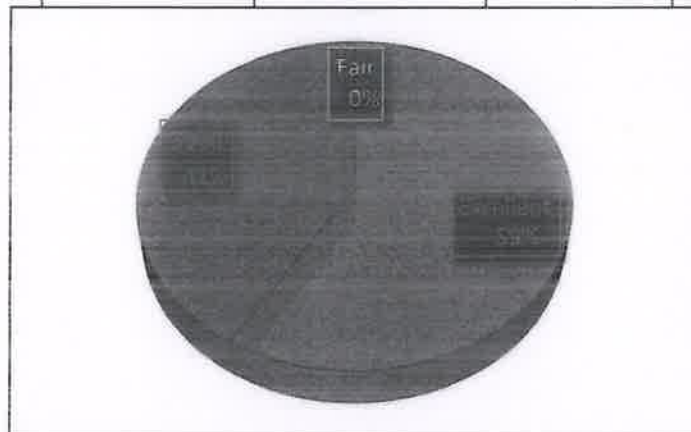
**1. Content of the Program?**

Excellent	Good	Fair
79	35	0



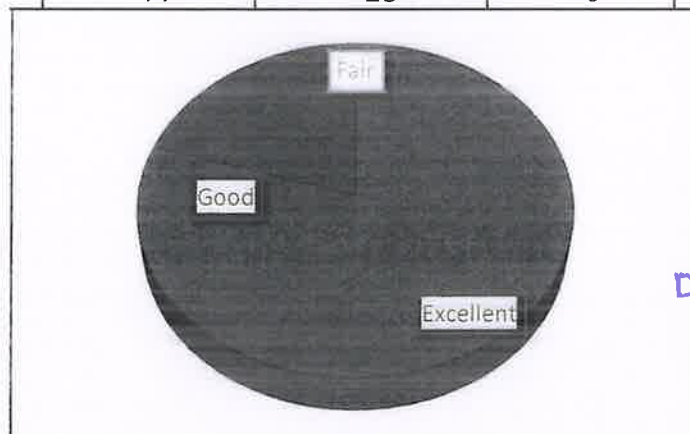
**2. Quality of Audio/Video Streaming?**

Excellent	Good	Fair
59	41	0



**3. Way of Presentation?**

Excellent	Good	Fair
77	23	0



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Old Nagore Road, Thethi, Nagore Village, Nagapattinam – 611002

**Report**

**Online Webinar**

**on**

**Automotive Crash Theory**

**12.06.2020**

Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING,**

**E.G.S. PILLAY ENGINEERING COLLEGE**

**Nagapattinam-611002**

**E.G.S. PILLAY ENGINEERING COLLEGE, Nagapattinam**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Webinar program for faculties**

**Title: Automotive Crash Theory**

<b>S. No.</b>	<b>Content</b>
1.	Brochure
2.	Report
3.	Course Material
4.	Attendance
5.	Sample Certificates
6.	Feedback Form
7.	Feedback report



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Department of  
Mechanical Engineering

Time  
11.00 am

Date  
12.06.2020

## Proud Alumni Webinar Series

### Automotive Crash Theory



E Certificate  
for  
Participation

**Mr. K. PREMCHANDRAN**

(1998-2002 Batch)

Manager,

Crash Performance Planning,

Renault Nissan Technology

Business Centre India, Chennai



Register@

Free Registration <https://tinyurl.com/egspec-mech>

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**DEPARTMENT OF MECHANICAL ENGINEERING,**

**E.G.S.PILLAY ENGINEERING COLLEGE**

**ACADEMIC YEAR 2019-2020**

**WEBINAR REPORT**

The Department of mechanical Engineering had organized a webinar through online mode on “**Automotive Crash Theory**” on **12.06.2020** at **11.00 p.m.** Welcome address was given by **Dr. G.GURUMOORTHY**, Head of the Department, Department of Mechanical Engineering, E.G.S.Pillay Engineering College.

Resource person **Dr. S .Krishna Mohan, Professor, Department of Mechanical Engineering**, had given the brief introduction to the webinar and the importance of new techniques evolved in mechanical field which has wide area of applications.

In this webinar, **31** participants from colleges have registered from various institutions. Among these, all the **31** participants have attended the webinar.

Vote of thanks was given by **Mr. N .Ramanujam**, Professor, Department of Mechanical Engineering. All the attended participants gave their feedback after the session and E-certificate have been sent to them through email.

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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**



NOTES

# Automotive Crash Theory



## Number one killer of teenagers:

- **Teen drivers have crash rates 3 times those of drivers 20 and older per mile driven. Immaturity leads to speeding and other risky habits, and inexperience means teen drivers often don't recognize or know how to respond to hazards.**



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## Types of crash tests:

- **Frontal-impact tests:** which is what most people initially think of when asked about a crash test. These are usually impacts upon a solid concrete wall at a specified speed, but can also be vehicle-vehicle tests. Crash have been singled out in these tests for a while, due to the high ride-height that they often have.
- **Offset tests:** in which only part of the front of the car impacts with a barrier (vehicle). These are important, as impact forces (approximately) remain the same as with a frontal impact test, but a smaller fraction of the car is required to absorb all of the force. These tests are often realized by cars turning into oncoming traffic. **Small Overlap tests:** this is where only a small portion of the car's structure strikes an object such as a pole or a tree, or if 2 cars were to clip another. This is the most demanding test as it loads the most force onto the cars structure at any given speed. These are usually conducted at 15-20% of the front vehicle structure.
- **Side-impact tests:** these forms of accidents have a very significant likelihood of fatality, as cars do not have a significant chance to absorb the impact forces before an occupant is injured.
- **Rollover tests:** which tests a car's ability (specifically the chassis holding the roof) to support itself in a dynamic impact. More recently dynamic rollover tests have been proposed as opposed to static crush testing (video).
- **Roadside hardware crash tests:** are used to ensure crash barriers and crash cushions will protect vehicle occupants from roadside hazards, and also to ensure that guard rails, sign posts, light poles and similar appurtenances do not pose an undue hazard to vehicle occupants.
- **Old versus new:** Often an old and big car against a small and new car/ or two different generations of the same car model. These tests are performed to show the advancements in crashworthiness.
- **Computer model:** Because of the cost of full-scale crash tests, engineers often run many computerized crash tests using computer models to refine their vehicle or barrier designs before conducting live tests.



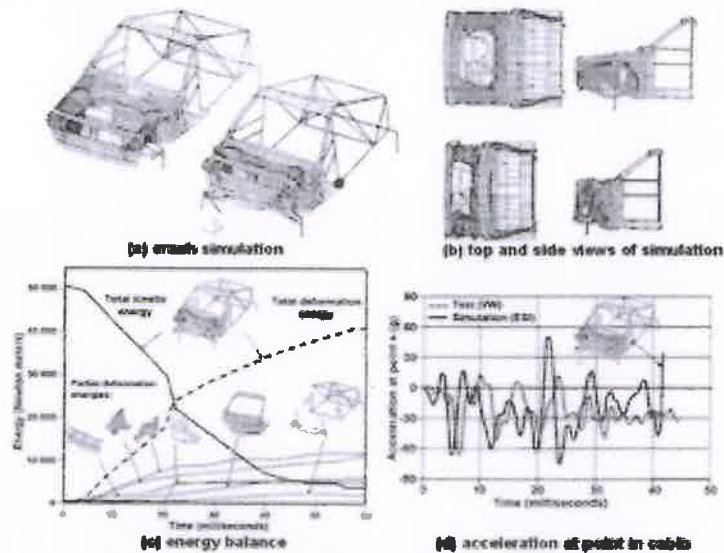
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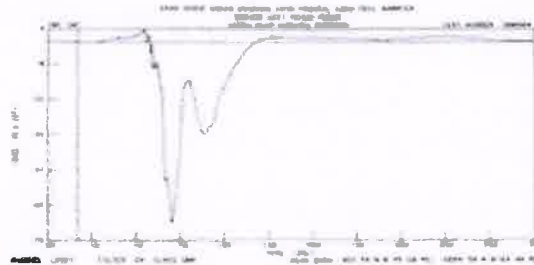
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## Computer crash simulation:



## Load Sensors



Inside the dummy are load sensors that measure the amount of force on different body parts during a crash.

The graph above shows the force in Newtons in the driver's femur (the thigh bone), during a 35-mph frontal crash. The maximum load in the bone can be used to determine the probability of it breaking.

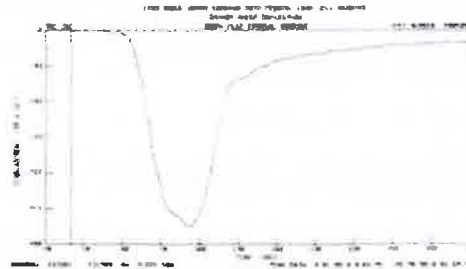
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*[Signature]*  
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PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



## Movement Sensors

These sensors are used in the dummy's chest. They measure how much the chest deflects during a crash.



The scan above shows the driver's chest deflection during a crash. In this particular crash, the driver's chest is compressed about 2 inches (46 mm). This injury would be painful, but probably not fatal.

### Ratings for Frontal-Impact Tests

# of Stars	Result
5	10% or lower chance of serious injury
4	11% to 20% chance of serious injury
3	21% to 35% chance of serious injury
2	36% to 45% chance of serious injury
1	46% or greater chance of serious injury

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*[Signature]*  
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**List of Attended Participants**

S.No	Name of Institute/Organization	ATTENDANCE
1.	Ramabalan S	✓
2.	KrishnaMohan S	✓
3.	Ramanujam N	✓
4.	SivaramaKrishnan V	✓
5.	Sivaraman V	✓
6.	Gurumoorthi G	✓
7.	Jeevamalar J	✓
8.	Chockalingam S	✓
9.	Marimuthu K	✓
10.	Navaneethakrishnan V	✓
11.	Sundar R	✓
12.	ManiKandan B	✓
13.	Surendar G	✓
14.	Manathunai Nathan V	✓
15.	Sundaravadivel G	✓
16.	Hari Narayanan G	✓
17.	Senthil Nathan K	✓
18.	Arun Kumar A	✓
19.	Balasubramanian K	✓
20.	Harish kirthi S	✓
21.	Subramaniyan M	✓
22.	Prabhu N	✓
23.	Muruges S	✓
24.	Manikandan N	✓
25.	Udhayamuthu S	✓
26.	Kathirvelan K	✓
27.	Balaj R	✓
28.	Ashwin Chakravarthy R	✓
29.	Kalaignar P	✓
30.	Ashokkumar G	✓
31.	Ramesh S	✓

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

Department of Mechanical Engineering



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# CERTIFICATE OF APPRECIATION

This Certificate is presented to

**{{full name}}**

of

**{{other identifier}}**

for participating in the Webinar on  
**Automotive Crash Theory**

held on 12<sup>th</sup> June, 2020 conducted by

**Mr. K. PREMCHANDRAN, Manager, Crash Performance Planning,**

**Renault Nissan Technology Business Centre India, Chennai**

**Dr. G. Gurusoorthy**  
Professor & HOD-Mechanical

**Dr. S. Krishna Mohan**  
Professor & Dean-Mechanical

**Dr. S. Ramabalan**  
Principal

{{CERTIFICATE ID}}

ATTESTED

**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
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Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

**E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Webinar on "Automotive Crash Theory"- 12.06.2020**

**FEEDBACK QUESTIONS**

**1. Content of the program?**

**Excellent**

**Excellent**

**Fair**

**2. Quality of the Audio/ Video Streaming?**

**Excellent**

**Excellent**

**Fair**

**3. Way of Presentation?**

**Excellent**

**Excellent**

**Fair**

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**



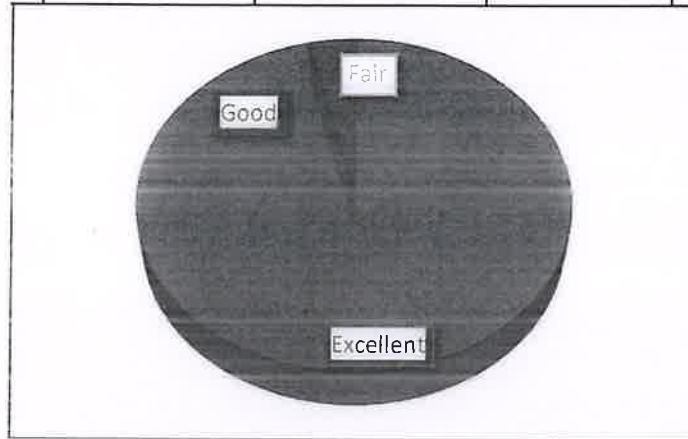


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**Feedback questions and responses**

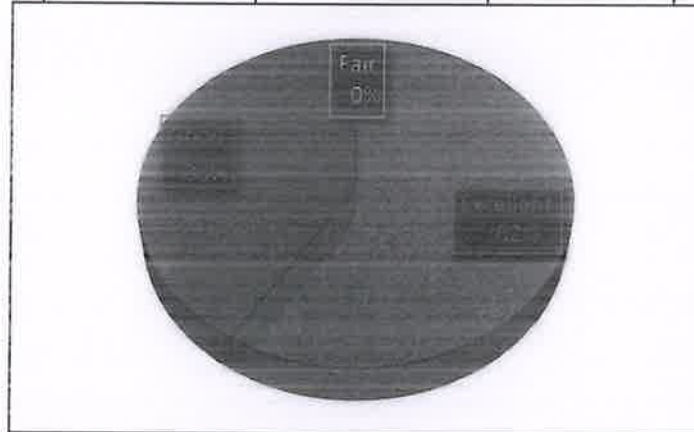
**1. Content of the Program?**

Excellent	Good	Fair
87	13	0



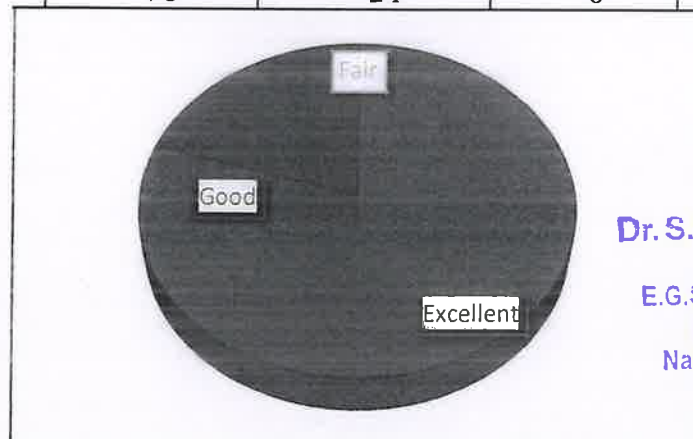
**2. Quality of Audio/Video Streaming?**

Excellent	Good	Fair
62	38	0



**3. Way of Presentation?**

Excellent	Good	Fair
76	24	0



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*[Signature]*  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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**Report**

**Five days Online Faculty Development Programme**

**on**

**Recent Trends in Mechanical Engineering**

**15-06-2020 to 20-06-2020**

Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING,**

**E.G.S. PILLAY ENGINEERING COLLEGE**

**Nagapattinam-611002**

**E.G.S. PILLAY ENGINEERING COLLEGE, Nagapattinam**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Webinar program for faculties**

**Title: Recent Trends in Mechanical Engineering**

<b>S. No.</b>	<b>Content</b>
1.	Brochure
2.	Report
3.	Course Material
4.	Attendance
5.	Sample Certificates
6.	Feedback Form
7.	Feedback report



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Department of  
**Mechanical Engineering**

**Time**

**Date**

**11.00 am**

**15<sup>th</sup> June to 20<sup>th</sup> June**

## RECENT TRENDS IN MECHANICAL ENGINEERING



**Topic :**

Contemporary Application  
of Heat Pipes

**DAY 1**

**Speaker:** Dr. K. Karunamurthy,  
Associate Professor, MIT - Chennai

**Topic :**

Choice of GTAW/TIG  
Welding for Research

**DAY 2**

**Speaker:** Dr. Karpagaraj,  
Assistant Professor, NIT - Patna



**Topic :**

Entropy Based Grey  
Relational Analysis

**DAY 3**

**Speaker:** Dr. S. Sivasankar,  
Assistant Professor, GCE - Sengipatti

**Topic :**

Fracture Toughness Evaluation

**DAY 4**

**Speaker:** Dr. K. Chandra Shekar,  
Principal, Vignan Institute of Mgt. &  
Tech for Women, Hyderabad



**Topic :**

Research Aspects of Machining

**DAY 5**

**Speaker:** Dr. S. Thirumala Kumaran,  
Associate Professor, Kalasalingam  
University

**Topic :** Multi-Criteria

Decision Making Methods

**DAY 6**

**Speaker:** Dr. B. Singaravelu,  
Associate Professor, Vignan Institute  
of Management & Science, Hyderabad



Register@

<https://tinyurl.com/egspec-mech-fdp>

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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
PRINCIPAL

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Thethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.



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**DEPARTMENT OF MECHANICAL ENGINEERING,  
E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**  
**FACULTY DEVELOPMENT PROGRAM**

**REPORT**


The Department of mechanical Engineering had organized An one week online faculty Development program e on “**Recent Trends in mechanical Engineering**” on **15.06.2020** at to **20.06.2020**. Welcome address was given by **Dr. S. RAMABALAN**, Principal, E.G.S.Pillay Engineering College.

**Dr. S .Krishna Mohan, Professor, Department of Mechanical Engineering,** had given the brief introduction to the webinar and the importance of new techniques evolved in mechanical field which has wide area of applications.

From 15.06.2020 to 20.06.2020 we have conducted the program in the way that one course on one day.

Vote of thanks was given by **Dr. S. CHOKALINGAM**, Professor, Department of Mechanical Engineering. All the attended participants gave their feedback after the session and E-certificate have been sent to them through email.

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
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**E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**SCHEDULE**

**FROM 15.06.2020 TO 20.06.2020**

We are going to conduct a one week online **FACULTY DEVELOPMENT PROGRAM (FDP)** on **RECENT TRENDS IN MECHANICAL ENGINEERING** for faculties of Department Of Mechanical Engineering.

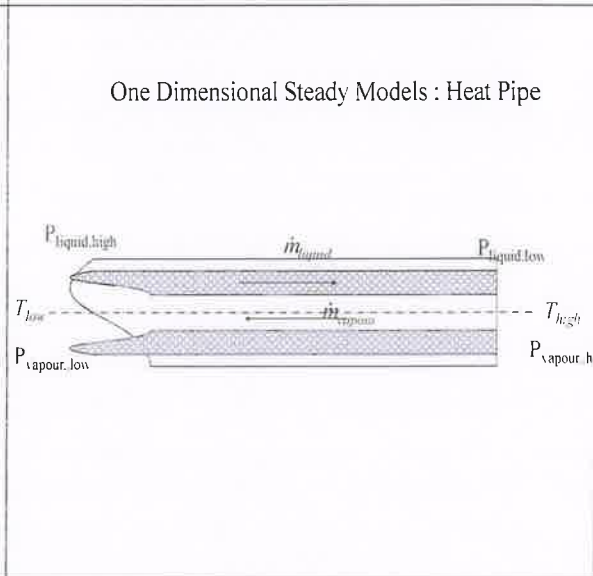
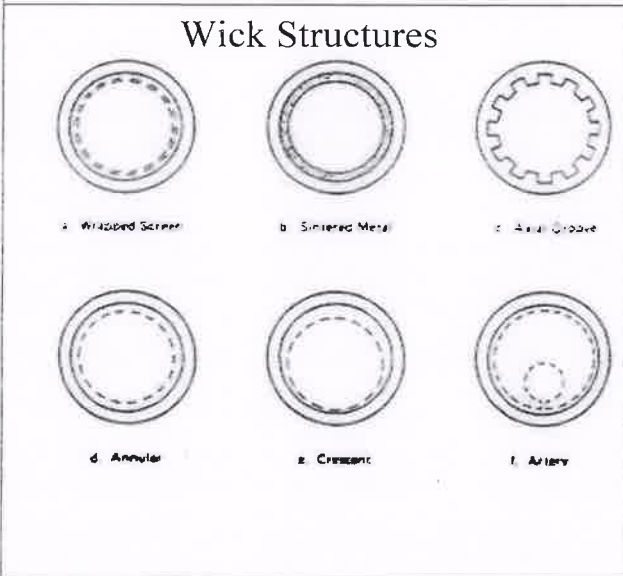
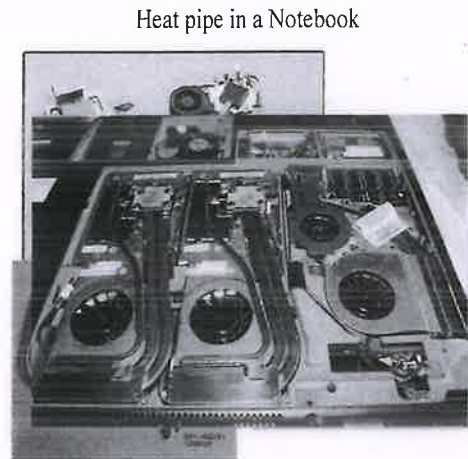
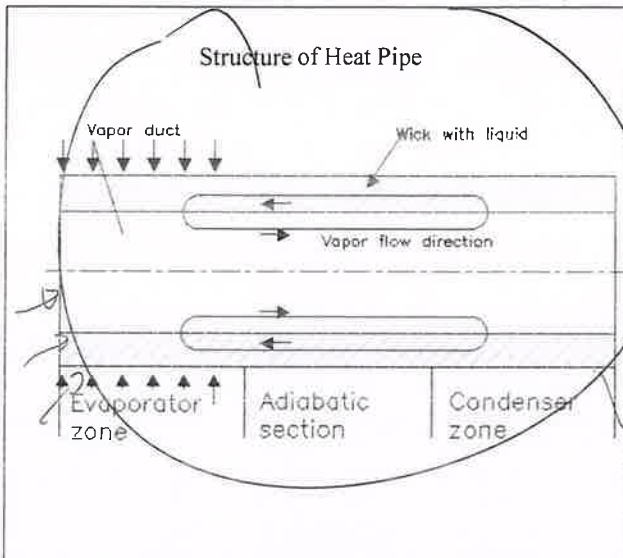
S.NO	DATE	TOPICS	PRESENTER	BENEFICIARIES
1.	15.06.2020	Contemporary Application of Heat pipes	Dr.K.Karunamurthy, VIT, Chennai	Teaching faculties of Department Of Mechanical Engineering
2.	16.06.2020	Choice of GTAW/TIG welding for Research	Dr.A.Karpagaraj, NIT,Patna	
3.	17.06.2020	Entropy Based Grey Relational Analysis	Dr.S.Sivasankar, GCE, Thanjavur	
4.	18.06.2020	Fracture Toughness Evaluation: A case study of polymer Matrix composites	Dr.J.Chandrashekar, VIMTW, Hyderabad	
5.	19.06.2020	Research aspects of machining	Dr.S.Thirumalaikumaran, KARE, Krishnankoil	
6.	20.06.2020	Multi criteria decision making Methods	Dr.B.Singaravelu, VITS, Hyderabad	

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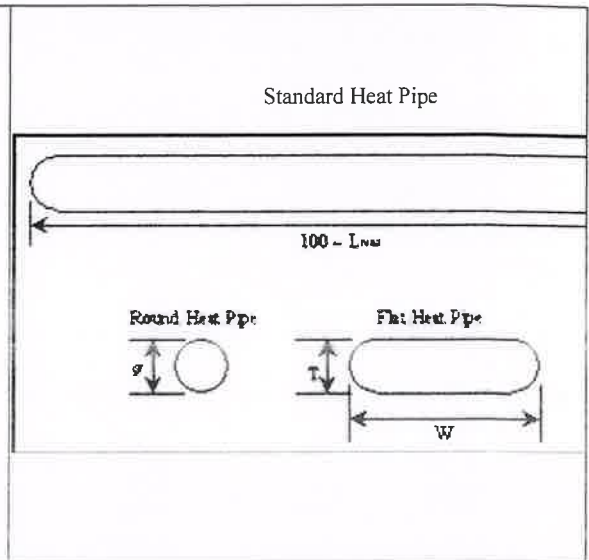
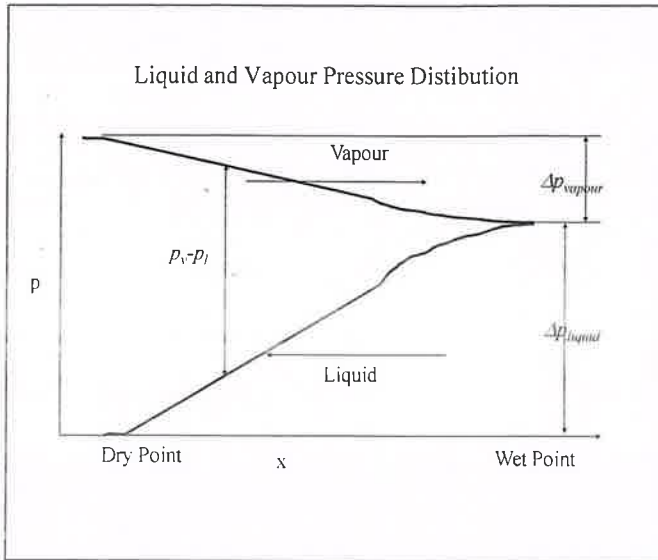
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
**E.G.S. Pillay Engineering College,**  
**Thethi, Nagore - 611 002.**  
**Nagapattinam (Dt) Tamil Nadu.**



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 Nagapattinam (Dt) Tamil Nadu.



### Techniques for Basic Weld Joints

#### Arc Length

- Arc length normally one electrode diameter, when AC welding with a balled end electrode
- When DC welding with a pointed electrode, arc length may be much less than electrode diameter

\*Figure copied from TIG Handbook

### TIG Shielding Gases

- Argon
- Helium
- Argon/Helium Mixtures

### TIG Shielding Gases

<h4 align="center">Argon</h4> <ul style="list-style-type: none"> <li>• Good arc starting</li> <li>• Good cleaning action</li> <li>• Good arc stability</li> <li>• Focused arc cone</li> <li>• Lower arc voltages</li> <li>• 10-30 CFH flow rates</li> </ul>	<h4 align="center">Helium</h4> <ul style="list-style-type: none"> <li>• Faster travel speeds</li> <li>• Increased penetration</li> <li>• Difficult arc starting</li> <li>• Less cleaning action</li> <li>• Less low amp stability</li> <li>• Higher arc voltages</li> <li>• Higher flow rates (2x)</li> <li>• Higher cost than argon</li> </ul>
---	---

### GTAW – Gas Tungsten Arc Welding (TIG)

Current I (200 A DC)  
 (500 A AC)  
 Power ≈ 8-20 kW

- a.k.a. TIG - Tungsten Inert Gas
- Non-consumable electrode
- With or without filler metal
- Shield gas usually argon
- Used for thin sections of Al, Mg, Ti
- Most expensive, highest quality

**ATTESTED**  
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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Nagore Post, Nagapattinam – 611 002, Tamilnadu.

**List of Attended Participants**

S.No	Name of Institute/Organization	ATTENDANCE
1.	Ramabalan S	✓
2.	KrishnaMohan S	✓
3.	Ramanujam N	✓
4.	SivaramaKrishnan V	✓
5.	Sivaraman V	✓
6.	Gurumoorthi G	✓
7.	Jeevamalar J	✓
8.	Chockalingam S	✓
9.	Marimuthu K	✓
10.	Navaneethakrishnan V	✓
11.	Sundar R	✓
12.	ManiKandan B	✓
13.	Surendar G	✓
14.	Manathunai Nathan V	✓
15.	Sundaravadivel G	✓
16.	Hari Narayanan G	✓
17.	Senthil Nathan K	✓
18.	Arun Kumar A	✓
19.	Balasubramanian K	✓
20.	Harish kirthi S	✓
21.	Subramaniyan M	✓
22.	Prabhu N	✓
23.	Muruges S	✓
24.	Manikandan N	✓
25.	Udhayamuthu S	✓
26.	Kathirvelan K	✓
27.	Balaj R	✓
28.	AshwinChakravarthy R	✓
29.	Kalaignar P	✓
30.	Ashokkumar G	✓
31.	Ramesh S	✓

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 Old Nagore Road, Nagapattinam-611 002, Tamil Nadu  
 Contact: 0451-2511274 (Phone), 0451-2511275 (Fax), 0451-2511276 (Mobile), 0451-2511277 (Email)

*One Week Online Faculty Development Program (FDP) on  
 Recent Trends in Mechanical Engineering  
 (15/06/2020 to 20/06/2020)*

**CERTIFICATE OF PARTICIPATION**

*This is to Certify that*

**Mr.K. Marimuthu**

*has participated in One week FDP on Recent Trends in Mechanical  
 Engineering, Organized by Department of Mechanical Engineering,  
 EGSPIC during 15/06/2020 to 20/06/2020*

*S. Chockalingam*  
**Dr. S. Chockalingam**  
 Asso. Prof/Mech,  
 FDP Coordinator

*G. G. Gurunoorthi*  
**Dr. G. Gurunoorthi**  
 Prof & HoD/Mech.

*[Signature]*  
**ATTESTED** Dr. S. Ramabalan  
 Principal

**Dr. S. RAMABALAN, M.E., Ph.D.,**

**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
 Thelvi, Nagore - 611 002.  
 Nagapattinam (Dt) Tamil Nadu.

**CERTIFICATE  
OF PARTICIPANTS**

This is Certify that

*Mr. P Muthunayakan*

Lab Assistant, Department of IT, has Participated in One day workshop on  
BASIC COMPUTER SKILL AWARENESS PROGRAM, Organized by Department of  
MCA, E.G.S. Pillay Engineering College [Autonomous], Nagapattinam on 19.11.2019

  
Coordinators

Mrs. C. Mallika, Assoc. Prof/MCA  
Mrs. A. Hema, Asst. Prof/MCA



  
Convener

Dr. J. Vanitha, Professor/HOD MCA

ATTESTED

  
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Nagapattinam (Dt) Tamil Nadu.

**E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Faculty development program on "Recent Trends in Mechanical Engineering"  
15.06.2020 to 20.06.2020**

**FEEDBACK QUESTIONS**

**1. Content of the program?**

Excellent

Excellent

Fair

**2. Quality of the Audio/ Video Streaming?**

Excellent

Excellent

Fair

**3. Way of Presentation?**

Excellent

Excellent

Fair

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL**

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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.**

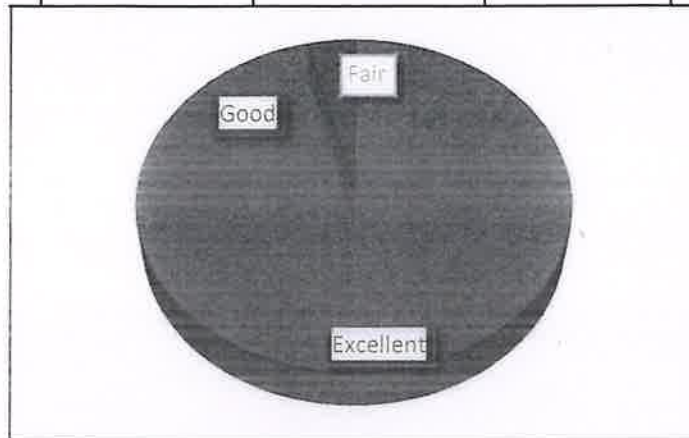


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**Feedback questions and responses**

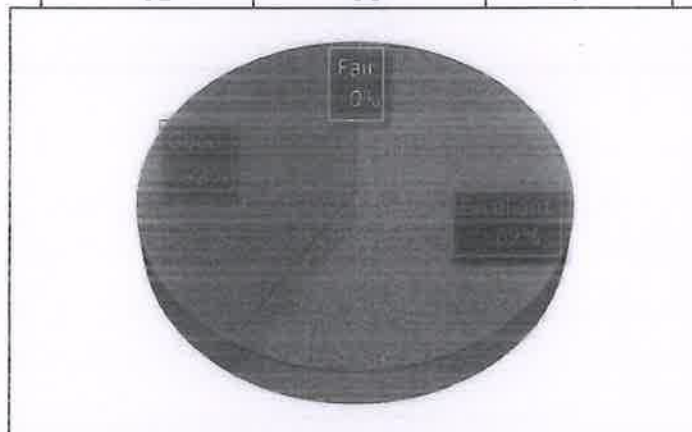
**1. Content of the Program?**

Excellent	Good	Fair
66	34	0



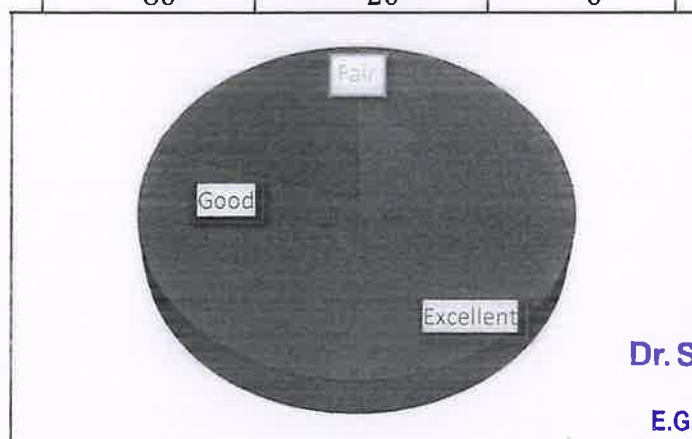
**2. Quality of Audio/Video Streaming?**

Excellent	Good	Fair
62	38	0



**3. Way of Presentation?**

Excellent	Good	Fair
80	20	0



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PRINCIPAL**

**E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.**

**Nagapattinam (Dt) Tamil Nadu.**



# **E.G.S. PILLAY ENGINEERING COLLEGE**

**(An Autonomous Institution affiliated to Anna University,  
Chennai & NBA and NAAC Accredited Institution)**  
Old Nagore Road, Thethi, Nagore Village, Nagapattinam – 611002

## **Report**

**Online webinar**

**on**

**Future Trends in Wheeled Mobile Robots**

**20-06-2020**

Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING,**

**E.G.S. PILLAY ENGINEERING COLLEGE**

**Nagapattinam-611002**

# **E.G.S. PILLAY ENGINEERING COLLEGE, Nagapattinam**

**DEPARTMENT OF MECHANICAL ENGINEERING**

## **Webinar program for faculties**

**Title: Future Trends in Wheeled Mobile Robots**

<b>S. No.</b>	<b>Content</b>
1.	Brochure
2.	Report
3.	Course Material
4.	Attendance
5.	Sample Certificates
6.	Feedback Form
7.	Feedback report



**E.G.S. PILLAY**  
Engineering College



Autonomous  
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Affiliated to Anna University | Approved by AICTE | Accredited by NBA & NAAC 'A' Grade | Recognized by UGC 2B & 12BR | An ISO 9001:2015 Certified Institution

Contacting Code : 5876

+91-4365-25112/14 | principal@egscec.org/inquiries@egscec.org

**Time**  
10.00 Am

**Date**  
20.06.2020

## Future Trends in Wheeled Mobile Robots

**Dr. SANTHAKUMAR MOHAN**  
Ph.D (IIT Madras)

Associate Professor, Department of Mechanical Engineering,  
IIT (Indian Institute of Technology), Palakkad,  
Kerala, India.



IIT PALAKKAD

Indian Institute of Technology Palakkad

भारतीय प्रौद्योगिकी संस्थान पालक्काड

Under Ministry of Human Resource Development, Govt. of India

मानव संसाधन विकास मंत्रालय के अधीन, भारत सरकार



**Department of Mechanical Engineering**

ATTESTED

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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**DEPARTMENT OF MECHANICAL ENGINEERING,**

**E.G.S.PILLAY ENGINEERING COLLEGE**

**ACADEMIC YEAR 2019-2020**

**WEBINAR REPORT**

The Department of mechanical Engineering had organized a webinar through online mode on “**Future Trends in Wheeled Mobile Robots**” on **20.06.2020 at 10.00 p.m.** Welcome address was given by **Dr. G.GURUMOORTHY**, Head of the Department, Department of Mechanical Engineering, E.G.S.Pillay Engineering College.

Resource person **Dr. S .Krishna Mohan, Professor, Department of Mechanical Engineering**, had given the brief introduction to the webinar and the importance of new techniques evolved in mechanical field which has wide area of applications.

In this webinar, **31** participants from colleges have registered from various institutions. Among these, all the 31 participants have attended the webinar.

Vote of thanks was given by **Mr. N .Ramanujam**, Professor, Department of Mechanical Engineering. All the attended participants gave their feedback after the session and E-certificate have been sent to them through email.

**ATTESTED**

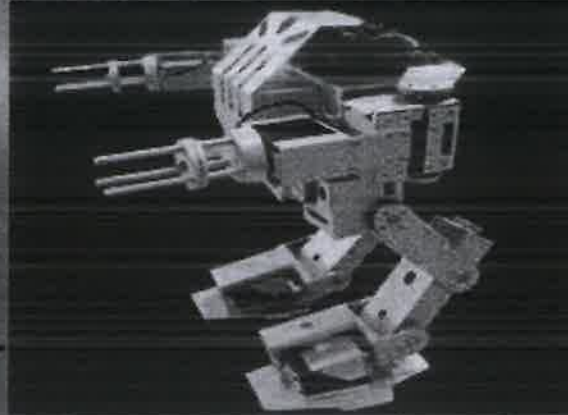
  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.



## NOTES

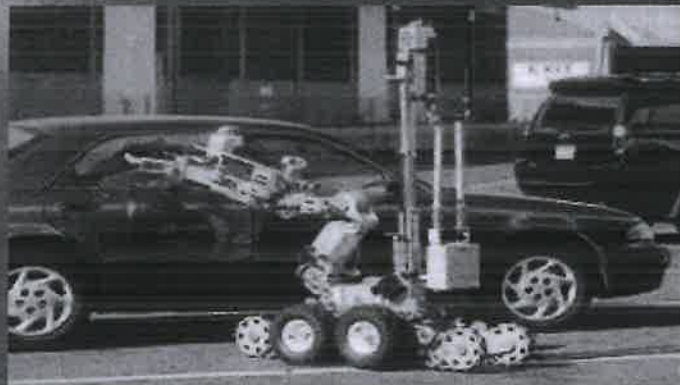
### What is Robotics?

- A robot is a machine that can be programmed.



### THE FOUR D'S OF ROBOTICS

1. Dangerous
2. Dirty
3. Dull
4. Difficult



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## What is artificial intelligence and how is it different from robotics as we know it?

- ❑ In current robotics, all robot behavior must be programmed into the robot.
- ❑ Artificial intelligence is the ability of the robot to select which behavior or program to run.

## Major Fields of Robotics

- ❑ Operator Interface: A robot must be able to communicate with its human controller
- ❑ Mobility or locomotion: How the robot gets from place to place
- ❑ Manipulators and effectors:
- ❑ The parts of the robot that interact with objects by touching things, picking them up, placing them in containers, etc.



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## Mobility or Locomotion

- ❑ Electric motors – DC (direct current) are used to create rotational movement
- ❑ Servos – Work by electricity and also create rotational movement
- ❑ Linear Actuators – pneumatics or hydraulics and create a lot of force very quickly
- ❑ Rotary actuators – much like linear only force is rotational

## How can robots move?

- ❑ Flying robots – Unmanned aerial vehicles (UAVs) fly in front of patrols so soldiers can spot ambushes.



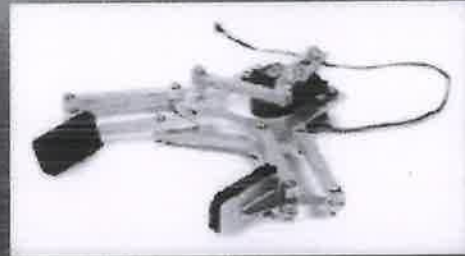
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## Manipulators and End Effectors

- ❑ Some people refer to the hand of a robot as an end-effector or effector and the arm as a manipulator.
- ❑ Mechanical Gripper
- ❑ Vacuum gripper



## Sensors

- ❑ Robots must know: Where am I? Where do I need to go? What is in my way?
- ❑ Robots use cameras for eyes
- ❑ Robots use microphones for ears
- ❑ Robots use touch sensors for touch
- ❑ GPS Sensors for coordinates
- ❑ Radar transmitters for objects in the way
- ❑ Infrared sensors detect heat

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Nagore Post, Nagapattinam – 611 002, Tamilnadu.

**List of Attended Participants**

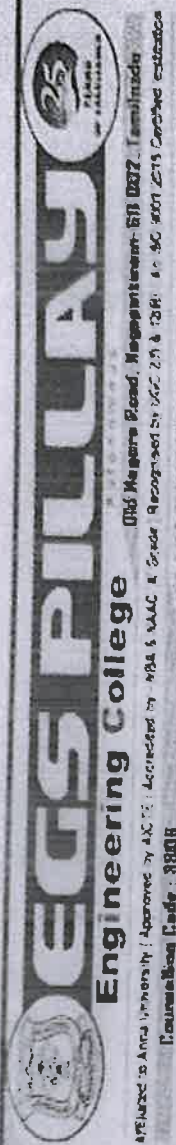
S.No	Name of Institute/Organization	ATTENDANCE
1.	Ramabalan S	✓
2.	KrishnaMohan S	✓
3.	Ramanujam N	✓
4.	SivaramaKrishnan V	✓
5.	Sivaraman V	✓
6.	Gurumoorthi G	✓
7.	Jeevamalar J	✓
8.	Chockalingam S	✓
9.	Marimuthu K	✓
10.	Navaneethakrishnan V	✓
11.	Sundar R	✓
12.	ManiKandan B	✓
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14.	Manathunai Nathan V	✓
15.	Sundaravadivel G	✓
16.	Hari Narayanan G	✓
17.	Senthil Nathan K	✓
18.	Arun Kumar A	✓
19.	Balasubramanian K	✓
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24.	Manikandan N	✓
25.	Udhayamuthu S	✓
26.	Kathirvelan K	✓
27.	Balaj R	✓
28.	Ashwin Chakravarthy R	✓
29.	Kalaignar P	✓
30.	Ashokkumar G	✓
31.	Ramesh S	✓

ATTESTED

  
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PRINCIPAL

E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.

Nagapattinam (Dt) Tamil Nadu



# CERTIFICATE OF PARTICIPATION

This Certificate is presented to

**of**  
**EGS PILLAY ENGINEERING COLLEGE**  
**for participating in the Webinar on**  
**Future Trends in wheeled Mobile Robots**  
**held on 20<sup>th</sup> June, 2020 conducted by**  
**Dr. Santhakumar Mohan,**  
**Associate Professor, Department of Mechanical Engineering, IIT, Palakkad,**  
**Kerala.**

**ATTESTED**

*[Signature]*  
**Dr. S. Ramabalan**  
Principal

*[Signature]*  
**Dr. S. Krishua Mohan**  
Professor & Dean-Mechanical

*[Signature]*  
**Dr. G. Gurunoorthy**  
Professor & HOD-Mechanical

**EGS Pillay Engineering College**  
Nagercoil, Kerala

**E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS), NAGAPATTINAM**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Webinar on "Future trends in Wheeled Mobile Robots"- 20.06.2020**

**FEEDBACK QUESTIONS**

**1. Content of the program?**

Excellent

Excellent

Fair

**2. Quality of the Audio/ Video Streaming?**

Excellent

Excellent

Fair


**3. Way of Presentation?**

Excellent

Excellent

Fair

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**  
E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

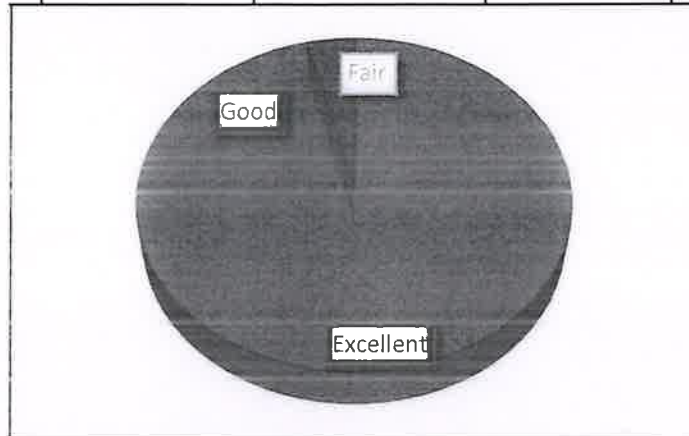




**Feedback questions and responses**

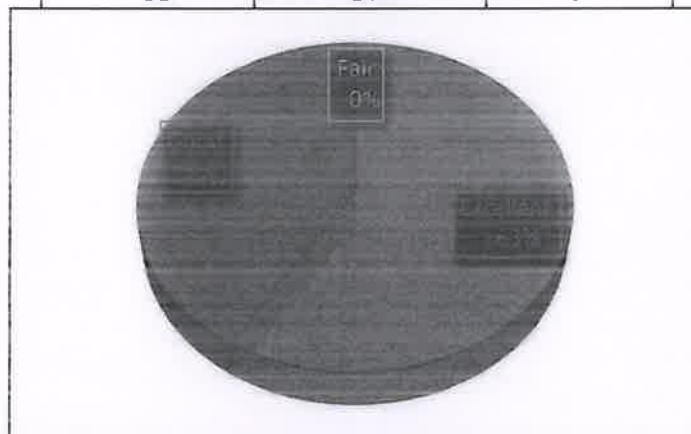
**1. Content of the Program?**

Excellent	Good	Fair
85	15	0



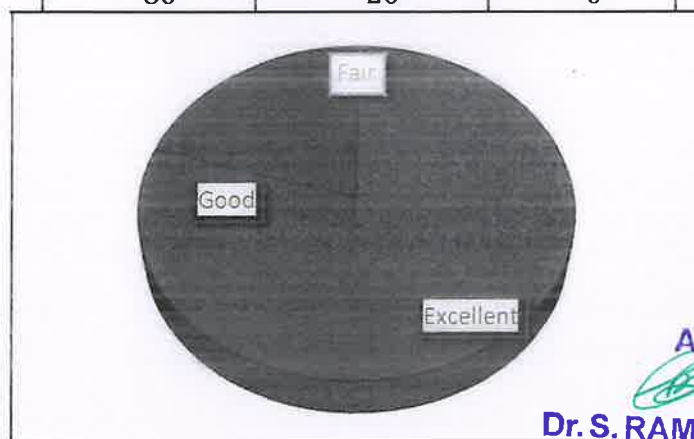
**2. Quality of Audio/Video Streaming?**

Excellent	Good	Fair
63	37	0



**3. Way of Presentation?**

Excellent	Good	Fair
80	20	0



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**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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***Report on Webinar "Securities Market Hands- on Training"***  
***by Dr. K. Prabhakaran***

**Organized by Department of Management Studies**

**Date: Wednesday, June 16, 2020**

**Time: 11:00 am to 12:30 pm**

**Happened on Google Meet <https://forms.gle/7Twyr8uLLrSNmK147>**

**To cultivate faculty learning and development for securities Market  
Awareness**

**ATTESTED**



**Dr. S. RAMABALAN, M.E., Ph.D.,  
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**25**  
YEARS OF  
EXCELLENCE

### ***"Securities Market Hands- on Training"***

**CONVENED BY** : DR. R. KARTHI, Director, Department of Management Studies

**COORDINATED BY** : MR. S. SAKTHI KAMAL NATHAN, Mrs. A. UMADEVI, Mr. S. SATHISH KUMAR, Assistant Professors, Department of Management Studies

**GUEST SPEAKER** : DR. K. PRABHAKARAN

**CONDUCTED ON** : JUNE 16, 2020 between 11.00AM & 12.30PM

**Coordinator**

Mr. S. Sakthi Kamal Nathan,

Mrs. A. Umadevi

Mr. S. Sathishkumar

**Convenor**

Dr. R. Karthi Director/ MBA

**ATTESTED**

  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
**PRINCIPAL**

**E.G.S. Pillay Engineering College,**  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

## Contents

S. No	Description
1	Approval Letter
2	Acceptance Letter
3	Event Circular
4	Profile of Guest Speaker
5	Event Invitation
6	Participants Name List
7	Synopsis of the Event
8	Event Photos
9	Sample Feedback

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
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E.G.S. Pillay Engineering College,  
Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

# Participants List

ATTESTED



Dr. S. RAMABALAN, M.E., Ph.D.  
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E.G.S. Pillay Engineering College,  
Theethi, Nagore - 611 002,  
Nagapattinam (Dt) Tamil Nadu.

## Participant List:

S.NO	FACULTY NAME	DESIGNATION
1	Dr.R.Karthi	Director/MBA
2	Dr.S.Chandrasekar	Professor
3	Mohan kumar. R	Associate Professor
4	Dr.B.Asha Daisy	Assistant Professor
5	Mr.S.Sakthi Kamal Nathan	Assistant Professor
6	Mr.I.Arulprakash	Assistant Professor
7	Mr.S.Mohamed Naina Maricar	Assistant Professor
8	Vinotha.P	Assistant Professor
9	Aarthi.L	Assistant Professor
10	Sayee Sudha. M	Assistant Professor
11	Sowarna Lashmi.A	Assistant Professor
12	Mrs A.Umadevi	Assistant Professor
13	R. Deepa	Assistant Professor
14	A.Kavitha	Assistant Professor
15	Tharani	Assistant Professor
16	S.Malathi	Assistant Professor
17	R.Arulraj	Assistant Professor
18	A.Poonghuzhali	Assistant Professor
19	G. Rajarajan	Assistant Professor

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# Profile of Guest Speaker

ATTESTED

  
Dr. S. RAMABALAN, M.E., Ph.D.,  
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**Dr. K. Prabhakaran**

Faculty –Finance & Accounting

E-Mail Id : praba\_mba2003@yahoo.co.in

Mobile No: +91 9965466999



Summary			
<b>Qualifications</b>	<b>MBA,M.Phil., PGDMM,Ph.D.</b>		
<b>Experience in Abroad</b>	<b>3 Years (Teaching &amp; Research)</b>		
<b>Experience in India</b>	<b>12 Years (Teaching, Industry&amp; Research)</b>		
<b>Subject Expertise</b>	<b>Security Analysis and Portfolio Management, Financial Derivatives, Financial Management, Financial Analysis, Financial Reporting Analysis, Wealth Management, Financial Accounting and Management Accounting</b>		
<b>Certification</b>	<b>NSE Certified Market Professional (NCMP) SEBI Financial Education Resource Person</b>		
<b>Visiting Faculty</b>	<b>MCUBE Academy (P) Ltd, Chennai, EDII TamilNadu and Premier Institutes in TamilNadu</b>		
<b>Resource Person of Various Programmes</b>	<b>SEBI Financial Education Workshops-240, EDII Programmes -9, Guest Lectures-80, FDP -5 and BSE GFMA Star plus Program- 360 Hours</b>		
<b>Publications</b>	<b>ABDC/Scopus Journals -2 International &amp; National Journals- 27</b>		
<b>Papers Presented</b>	<b>International &amp; National Level Conferences - 40</b>		
<b>Ph.D Thesis Evaluation</b>	<b>16 Theses (As a Foreign &amp; Indian Examiner)</b>		
<b>Projects Guided</b>	<b>MBA: 150 (Anna University, Chennai)&amp; BA Honours:10 (Stirling University, UK)</b>		
Educational Qualification			
<b>Degree</b>	<b>University/Board</b>	<b>Area</b>	<b>Year</b>
<b>Ph.D</b>	Bharathiyar University, Coimbatore, India	Finance	2014
<b>M.Phil</b>	Bharathiyar University, Coimbatore, India	Management	2008
<b>MBA</b>	School of Management, AnnamalaiUniversity, India	Finance	2005
<b>B.Com</b>	Sri Vasavi College, Erode, India	Commerce	2003

Experience Summary			
<b>Abroad Exposure</b>			
<b>Designation</b>	<b>Institution</b>	<b>Period</b>	<b>Experience</b>

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		From	To	
Assistant Professor	Muscat College, Sultanate of Oman. (Affiliated with the University of Stirling, UK & Universiti of Malaysia Pahang, Malaysia)	February 2015	December 2017	3 Years

### India Exposure

Designation	Institutions	Period		Experience
		From	To	
Visiting Faculty	Kalaignar Karunanidhi Institute of Technology (Autonomous) Coimbatore, MCUBE Academy (P) Ltd, Chennai, EDII, TamilNadu and Premier Institutes in TamilNadu	January 2018	Till Date	2 year
Assistant Professor(SRG)	RVS Faculty of Management, Coimbatore, India.	July 2010	Jan 2015	4 Year & 7 Months
Assistant Professor	Maharaja Prithvi Engineering College, Coimbatore, India.	Dec 2008	June 2010	1 Year & 7 Months
Investor Relations Officer	Karvy Stock Broking Ltd, Gobichettipalayam, India.	July 2005	Nov 2008	3 Years & 5 Months

### **Job Description**

- ❖ Outcome based touched by International Universities.
- ❖ Chair of Departmental Development, Research and Entrepreneurship Development.
- ❖ Handled theory and problem papers (Especially Finance and Accounting papers).
- ❖ Coordinator of Placement and Training Cell and Alumni Association, etc.
- ❖ Trainer for NISM/NCFM certificate exams.
- ❖ Organized National and International level Seminars/Conferences, Guest lectures, Corporate Interactions, FDP'S&PDP'S.
- ❖ Question paper setter and evaluation of Ph. D thesis for various Universities.

### **Core Competencies**

  
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Security Analysis and Portfolio Management, Financial Derivatives, Financial Management, International Financial Management, Wealth Management, Financial Accounting, Management Accounting and Financial Reporting Analysis.

#### **Area of Research Interest**

- ❖ Stock Market Volatility
- ❖ Financial Econometrics (Time Series Analysis)
- ❖ Technical Analysis
- ❖ Capital Market Efficiency & Portfolio Construction
- ❖ FOREX Market

#### **Research Projects**

- ❖ Forecasting Stock Price Volatility - A Study with Reference to CNX NIFTY Companies in India. **(During Ph.D.)**.
- ❖ A Study on the Financial Performance of Seshasayee Paper and Boards Ltd., Erode. **(During MBA)**.

#### **NISM, NCFM & BCFM Certificate Exams in India**

1. **NSE Certified Market Professional (NCMP)**
2. Security Operation and Risk Management
3. Equity Derivative Modules
4. Depository Operations Certification Examination
5. Capital Market (Dealers) Module
6. Derivatives Market (Dealers) Module
7. Equity Derivative Certification Examination
8. Commodities Market Module
9. BSE Certification on Securities Markets

#### **Awards**

- ❖ Best Faculty award received by National Foundation for Entrepreneurship and Development (NFED) Chennai, India.
- ❖ Best NCC Under Officer Award received by National Integration Camp held at Karnal (Haryana State) and Sri Vasavi College, Erode, India.
- ❖ Best NSS volunteer Award received by Annamalai University, India.

#### **Associate Editor/ Editorial Board Member**

- ❖ Editorial board member of Amity Journal of Finance (AJF)-An International, Biannual, Refereed Journal of Finance.
- ❖ Associate Editor of Journal of Management and Science (ISSN No.2249-1260/Online ISSN: 2250-1819).
- ❖ Editorial cum Advisory board member of International Journal of Advanced Research In Commerce, Management & Social Science(IJARCMSS).
- ❖ Editorial cum Advisory board member of International Journal of Education, Modern Management, Applied Science & Social Science (IJEMASS).
- ❖ Editorial board member of Nehru School of Management Journal (NSMJ) - (ISSN: 2349-4883).
- ❖ Associate Editor of Indo Asian Journal of Entrepreneurship (ISSN: 2319-2992).

  
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- ❖ Editorial board member of Asia Pacific International Journal of Engineering Science (ISSN: 2455-3883).
- ❖ Editorial board member of International Journal of Advanced Research in Commerce and Management (ISSN: 2395-2539).

### **NISM/NSE Certification Courses Conducted**

1. Kalaignar Karunanidhi Institute of Technology, Coimbatore
2. KGISL College of Arts and Science Coimbatore
3. Kamadhenu Arts and Science College, Sathiyamangalam, Erode
4. AJK Institute of Management, Coimbatore
5. SNS College of Arts and Science, Coimbatore
6. Kongu Arts and Science College, Erode

### **Other Activities**

- ❖ Number of sessions Chaired in National/International level Conferences: 25
- ❖ Number of Guest lecture's given: 80
- ❖ SEBI Financial Education programs across India: 240
- ❖ Entrepreneurship Awareness/NEEDS/PMEGP/UYEGP Programmes: 15

### **Personal Information**

Name : Dr. K. Prabhakaran  
Age : 38 Years  
Date of Birth : 12-05-1982  
Sex : Male  
Marital Status : Married with one son  
Passport Data : Z3032106  
International Driving License Number : 101128932 issued by Royal Oman Police, Sultanate of Oman (Valid till December 2026)

### **Declaration**

I hereby declare that all the information furnished by me is true to the best of my knowledge.

**Dr. K. Prabhakaran**

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# Event Invitation


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**e-Invite:**



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DEPARTMENT OF MANAGEMENT STUDIES  
ORGANIZES  
A LIVE WEBINAR ON  
SECURITIES MARKET HANDS- ON TRAINING  
On June 16, 2020, 11 AM  
by  
Dr. K. Prabhakaran,  
Trainer securities Market,  
Erode  
Organized and convened by  
Dr R. Karthi,  
Director & Head,  
Department of Management studies, EGSPEC  
COORDINATORS: Mr. S. Sakthi Kamal Nathan, Mrs. A. Umadevi, Mr. S. Sathish Kumar



Click [here](#) to register for the program  
You can also register by ordering this code in your browser's address bar  
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# Welcome Note

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**Dr. S. RAMABALAN, M.E., Ph.D.,**

**PRINCIPAL**

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**Thethi, Nagore - 611 002.**

**Nagapattinam (Dt) Tamil Nadu.**

**Welcome Talk by Mrs. A.Umadevi**

Good morning everybody, I am **A.Umadevi** Assistant Professor MBA. I am delighted to welcome you all to this webinar series on the topic, Security Market, Hands - on Training. Before we carry on with the guest's lecture, I would like to give my regards and appreciation to all the faculty members who are participating in this event and making our institution successful. We all are a part of this Institution due to our shared passion for the vision of the Institution. Our passion unites us, and our hard work strengthens the Institution.

On that note, let me introduce and welcome the chief guest of this incredibly beautiful morning Dr. K. Prabhakaran, MBA, MPhil, PGDM, PhD, who is a notorious trainer in securities market, Erode.

He has 3 years of experience in teaching & research in abroad, and he has a vast experience in Teaching in India. Adding value to it, he also has a 12-year research experience in India, we are thankful for your valuable time that we get to share with you sir. On behalf of the department of management studies, I welcome you sir.

I would like to extend my gratitude to the organizer of this live webinar, the director and the head of the Department of Management studies, Dr. R. Karthi sir, and I would like to welcome respected faculty members of the department and my dear colleagues.

May I request Dr. Prabhakaran sir to share his expertise in Security Market. The time is all your's sir.

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# Synopsis of the event

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## Synopsis of the event:

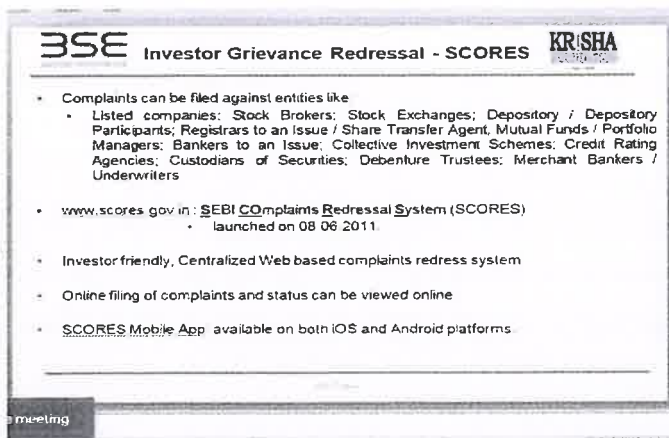
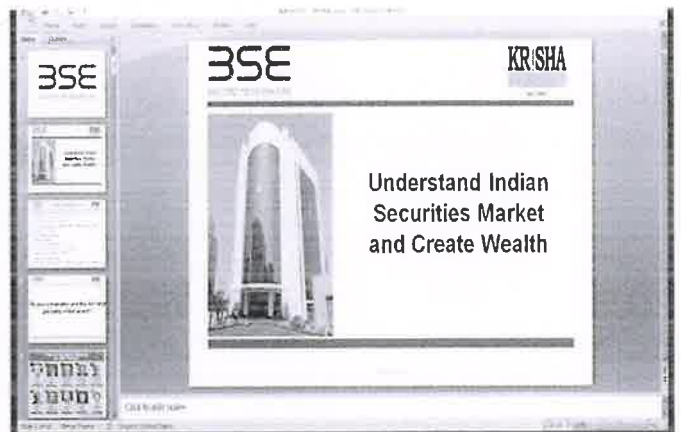


The program was convened by Dr. R. Karthi, Director and Head of the Department of Management Studies, E.G.S. Pillay Engineering College, coordinated by Mr. S. Sakthi Kamal Nathan, Mrs.

A. Umadevi, Mr. S. Sathishkumar, Assistant Professor, Department of Management Studies, E.G.S. Pillay Engineering College. In view of the covid-19 pandemic situation, the program was conducted online to cultivate faculty learning and development .

The program started with the greeting note by Dr. R. Karthi, Director of Management Studies and a welcome note by Mrs. A. Umadevi. Followed by which, the guest speaker started his session.

He started the session by explaining the BSE, NSE and insurance sector. He explained the understand Indian Securities market and create wealth. He also explained about how loan repayment and delayed EMI affects the CIBIL score and how it is calculated. It gave an awareness amongst the faculties.

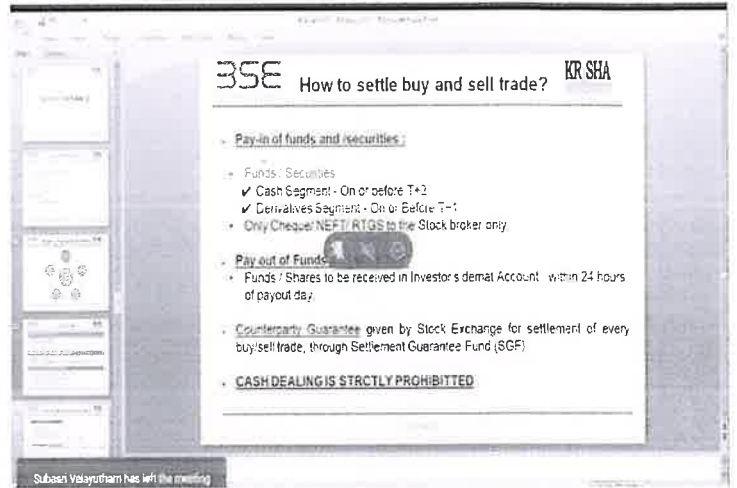


As the title describes, Security Market hands on Training, he gave a brief about how people should be aware in online banking and the merits and demerits Invertors. He also explained investor Grievance and Redressal and complaints can

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be against entities like SCORES. Public as Investor must be aware about usage of stock exchange as everything is merged such as bank accounts and Explained primary market and secondary market how to invest in shares it were discussed by Dr. K. Prabhakaran. The session was well interactive, many faculty has intervened and cleared their clarifications on investor protection, and usage of SEBI in Investor services.

He gave aconsciousness on how to settle buy and sell trade and various usage of funds and securities in cash segment, derivatives segment, savings account, bonds, gold investment, real estate, insurance, mutual fund, and equity. His talks about pay out of funding in investor received funds and shares of demat account. The faculty clear about the how to settle buy and sell trade.



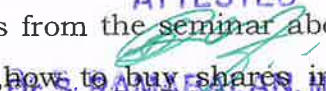
The speaker explained about top 10 richest people in the world. He ask question to



faculties who is the person one by one. The students given to answer for all. He also explain the richest people how do achieve goal and invest the money in shares.


He concluded the session with an interactive QA between him and the faculties where

faculties were able to clear their doubts securities market. The guest lecture was concluded with a vote of thanks by Mr.S.K.Sudhan and a thank you note by the Director of the Department of Management Studies, Dr. R. Karthi. The session was indeed an eye opener for many of the faculties. I extend my thanks to our honourable chief guest dr. K Prabhakaran sir, to take out time from his busy schedule to grace the event. we have learned many things from the seminar about primary market, secondary market, and how to invest,

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company,SEBI and its objectives etc.it is very useful for us in upcoming days to survey in an financial market.thank you for inispring and encouraging us with your words on this special day. A special thanks to Dr.R.Karthisir,director and head department of management studies(egspec) and also a program coordinators for providing the support to make seminar successful. I extend my gratitude towards EGSPEC and of MBA department for organizing a seminar which has attracted the participants of all colleges thank you everyone, once again for making it great success.

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# Certificate of Appreciation

*This certificate is presented to*

*Dr. k. Prabhakaran*

*in grateful recognition and sincere appreciation for sharing his valuable time and knowledge as Resource Speaker during the guest lecture programme on Securities Market Hands-on Training on 16-06-2020 at Department of Management Studies, E.G.S. Pillay Engineering College (Autonomous),*

*Nagapattinam*

**Dr.R.Karthi**

**Director/MBA**

**Dr.S.Ramabalan**

**Principal**

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