

E.G.S.Pillay Engineering College, (Autonomous) Nagapattinam

Dept of Electrical and Electronics Engineering

INTERNAL CIRCULAR

3-01-2019

Value added course

It is informed to all Second year (2017-21) students that a five day value added course on "ECAD," been organized between 7-1-2019 to 11-1-2019. All the students of II year EEE are instructed to attend the course without fail.

Time: 9.15 am – 4.30 Pm

Venue: EEE Seminar hall

(Circulated to II year class)

Handwritten signature
03/01/2019

HOD/EEE

Dr V NIPHAN M.Sc., M.Tech.,
PROFESSOR & HEAD
Department of Electrical & Electronics Engg
E.G.S. Pillay Engineering College - Nagapattinam

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, Nagapattinam
Dept of Electrical and Electronics Engineering
VALUE ADDED COURSE

On
“E-CAD”

About the institution :

Our college is offering value added courses for all the students intended to provide additional learner centric graded skill oriented technical training. The courses enhance the ability of students in their respective domains and progress in their respective field of studies.

About the department

Our department intends to provide additional technical knowledge and ensure the active participation of students to practice in the multidisciplinary tasks and core related areas .

Course period:

07/01/2019 TO 11/01/2019

Course instructor:

Dr.T.Suresh Padmanabhan,AP/EEE

(National Institute of occupational safety and fire safety management)

Objectives

Objectives of providing value added courses are to

- Gain knowledge from the subject experts
- Meet the expectations of industry
- Improve the employability skills of the students

Courses Structure

- ✓ Industry experts / eminent academicians from other Institutes/ Subject Experts from the respective departments teach the value added course
- ✓ The registration for the courses will be done at the beginning of academic year
- ✓ The duration of each course is 40 hours of Theory / Practical / Both

Expected Outcomes

Students will be able to

- Demonstrate their technical and communication skills
- Apply the novel technologies in their respective fields
- ✓ Face the challenges in the current industry scenario

Evaluation & Result

Evaluation of value added courses shall be carried out annually for 100 marks. Students will be given certificates with the grades based on the marks scored in the Examination

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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'

Department of Electrical and
Electronics Engineering
(Accredited by NBA)

**VALUE ADDED COURSE
ON
"E-CAD"**

Syllabus

Introduction

Geometric modeling

Drafting and Modeling

Group Technology

Computer Aided Quality
Control

Computer integrated
manufacturing systems

Course Overview

Resource Person

Dr. T. Suresh Padmanabhan,

Ph.D., AP/EEE

(HOD/EEE-DEPARTMENTS)

Course Coordinator

K.NANDAKUMAR, AP/EEE

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

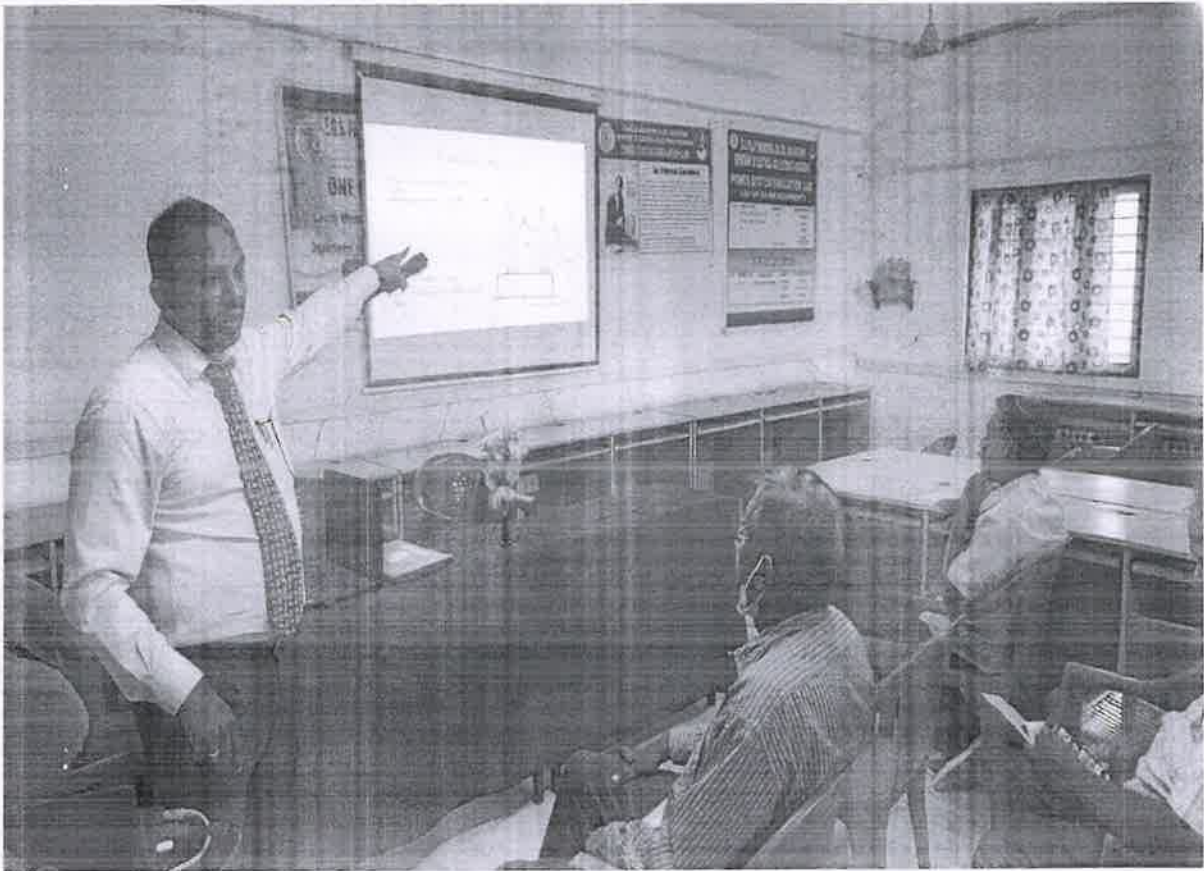
E.G.S. Pillay Engineering College,
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E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM
Dept of Electrical and Electronics Engineering
VALUE ADDED COURSE

On

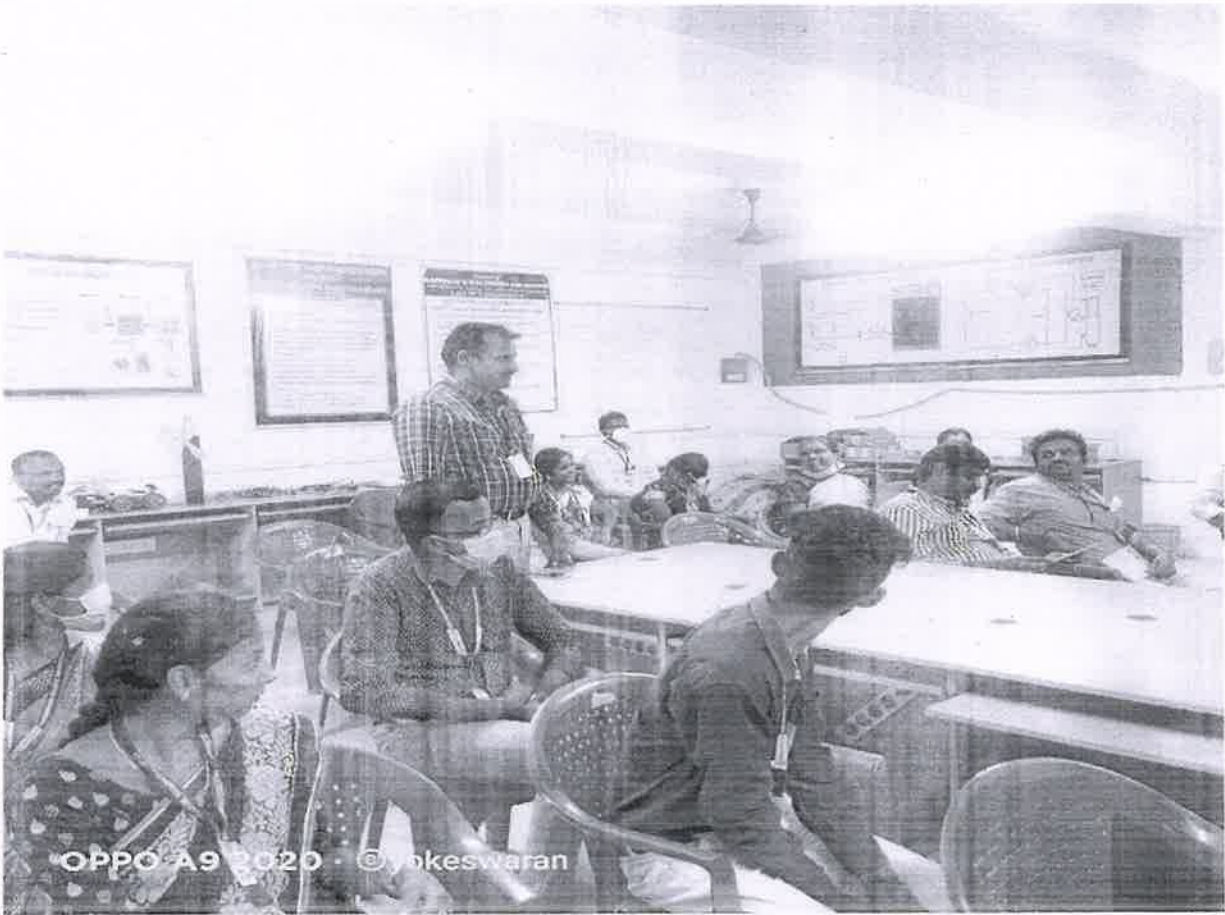
“E-CAD”

EVENT PHOTOS



E-CAD lecture by Dr. T.Suresh Padmanabhan

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



Feed back by participants

ATTESTED

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

E.G.S.Pillay Engineering college,(Autonomous)Nagapattinam
Department of Electrical and Electronics Engineering
ONE WEEK VALUE ADDED COURSE

On
"ECAD "

ATTENDENCE

Batch: 2017-21

Academic Year : 2018-19

S. No	Name	Reg. No	7/1/19	8/1/19	9/1/19	10/1/19	11/1/19
1.	AJITHKUMAR J	E17EER001	✓	✓	✓	✓	✓
2.	AKASH J	E17EER002	✓	✓	✓	✓	✓
3.	AKASH S	E17EER003	✓	✓	✓	✓	✓
4.	ANANTH N	E17EER004	✓	✓	✓	✓	✓
5.	ARUNKUMAR R	E17EER005	✓	✓	✓	✓	✓
6.	ASHOKRAJ B	E17EER006	✓	✓	✓	✓	✓
7.	ATCHAYA R	E17EER007	✓	✓	✓	✓	✓
8.	BALAJI S	E17EER008	✓	✓	✓	✓	✓
9.	BALAKUMARAN V	E17EER009	✓	✓	✓	✓	✓
10.	BALAMURUGAN R	E17EER010	✓	✓	✓	✓	✓
11.	BHARATH S	E17EER011	✓	✓	✓	✓	✓
12.	CHANDRU S	E17EER012	✓	✓	✓	✓	✓
13.	DHANUSRI S	E17EER014	✓	✓	✓	✓	✓
14.	DHIVAKAR A	E17EER015	✓	✓	✓	✓	✓
15.	DIVYA J	E17EER016	✓	✓	✓	✓	✓
16.	DURAIVALAVAN K	E17EER017	Ab	Ab	Ab	Ab	Ab
17.	GANESH P	E17EER018	✓	✓	✓	✓	✓
18.	GIRISUNDAR M R ATTESTED	E17EER019	✓	✓	✓	✓	✓

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19.	HANIN FARAZ H	E17EER020	✓	✓	✓	✓	✓
20.	HARISH T	E17EER021	✓	✓	✓	✓	✓
21.	IBTHIHARUDEEN S	E17EER022	✓	✓	✓	✓	✓
22.	JAYADEEPAN T	E17EER023	✓	✓	✓	✓	✓
23.	JEROMIYA S	E17EER024	✓	✓	✓	✓	✓
24.	KARTHIKESH K	E17EER025	✓	✓	✓	✓	✓
25.	KRISHNARAJ D	E17EER026	✓	✓	✓	✓	✓
26.	KURALARASAN S	E17EER027	✓	✓	✓	✓	✓
27.	MADHAVAN S	E17EER028	✓	✓	✓	✓	✓
28.	MANOJRAJ A S	E17EER029	✓	✓	✓	✓	✓
29.	MOHANRAJ S	E17EER030	✓	✓	✓	✓	✓
30.	NAVANEETHA KANNAN S	E17EER031	✓	✓	✓	✓	✓
31.	NEETHIS RAM S	E17EER032	✓	✓	✓	✓	✓
32.	PAVITHRAN T	E17EER034	✓	✓	✓	✓	✓
33.	PRATHEEP S	E17EER035	✓	✓	✓	✓	✓
34.	RAGUL D	E17EER036	✓	✓	✓	✓	✓
35.	RAJESH KANNAN M	E17EER038	✓	✓	✓	✓	✓
36.	RAJKUMAR R	E17EER039	✓	✓	✓	✓	✓
37.	RAJMANI R	E17EER040	✓	✓	✓	✓	✓
38.	RAMESH M	E17EER041	✓	✓	✓	✓	✓
39.	RAMYA N	E17EER042	✓	✓	✓	✓	✓

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40.	RENUGA M V	E17EER043	✓	✓	✓	✓	✓
41.	REVATHI M	E17EER044	✓	✓	✓	✓	✓
42.	SAIVIGNESH M	E17EER045	✓	✓	✓	✓	✓
43.	SANTHOSH N	E17EER046	✓	✓	✓	✓	✓
44.	SARAVANAN S	E17EER048	✓	✓	✓	✓	✓
45.	SELVAKUMAR S	E17EER049	✓	✓	✓	✓	✓
46.	SUVETHA M	E17EER051	✓	✓	✓	✓	✓
47.	THARUMARAJA P	E17EER052	✓	✓	✓	✓	✓
48.	THILEEBAN M	E17EER053	✓	✓	✓	✓	✓
49.	VASANTH J	E17EER054	✓	✓	✓	✓	✓
50.	VASANTHAN S	E17EER055	✓	✓	✓	✓	✓
51.	VENKATESAN D	E17EER056	✓	✓	✓	✓	✓
52.	VENKATESH K	E17EER057	✓	✓	✓	✓	✓
53.	VIGNESH T	E17EER058	✓	✓	✓	✓	✓
54.	VIJAY G	E17EER059	✓	✓	✓	✓	✓
55.	VINITH A	E17EER060	✓	✓	✓	✓	✓
56.	VINIYA S	E17EER061	✓	✓	✓	✓	✓
57.	VISHAL N	E17EER062	✓	✓	✓	✓	✓
58.	YUVARAJ G	E17EER063	✓	✓	✓	✓	✓
59.	AADHILL AHAMED S	E17EEL301	✓	✓	✓	✓	✓
60.	DHARSHAN R	E17EEL303	✓	✓	✓	✓	✓
61.	KEERTHIVASAN.S	E17EEL304 ATTESTED	✓	✓	✓	✓	✓

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62.	MATHAVAN.A	E17EEL305	✓	✓	✓	✓	✓
63.	MOHAMED AMANULLA M	E17EEL306	✓	✓	✓	✓	✓
64.	MOHAMED FAIZ.J	E17EEL307	✓	✓	✓	✓	✓
65.	MOHAMMED RIZWAN.S	E17EEL308	✓	✓	✓	✓	✓
66.	RAJAMANIKANDAN.S	E17EEL309	✓	✓	✓	✓	✓
67.	SATHIYA NARAYANAN D	E17EEL310	✓	✓	✓	✓	✓
68.	SURYA R	E17EEL311	✓	✓	✓	✓	✓
69.	SYED YAKINUL RAGMAN.H	E17EEL312	✓	✓	✓	✓	✓
70.	VENKATRAMANAN .N	E17EEL313	✓	✓	✓	✓	✓
71.	VIGNESH C	E17EEL314	✓	✓	✓	✓	✓
72.	VINITH K	E17EEL315	✓	✓	✓	✓	✓

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HOD/EEE
PROFESSOR & HEAD
 Department of Electrical & Electronics Engg.
 E.G.S. Pillay Engineering College - Nagapattinam

ATTESTED

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E.G.S PILLAY ENGINEERING COLLEGE

(AUTONOMOUS)

NAGAPATTINAM - 611002

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

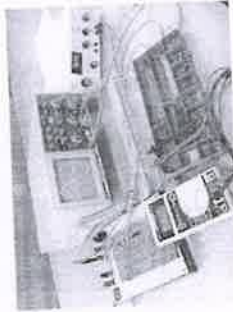
One week workshop on

E - CAD

Organized by

Department of Electrical & Electronics Engineering

Certificate



This is to certify that Mr. / Ms. / Mrs. S.BALAJI of E.G.S.Pillay Engineering college,(Autonomous)Nagapattinam has attended One week workshop on "E-CAD" on

07th & 11th January 2019.

CONVENER

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

HOD



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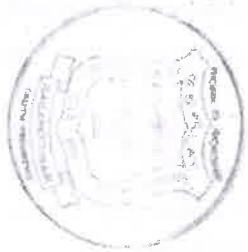
R. R. R.
CONVENER

ATTESTED

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

[Signature]
HOD



E.G.S PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM - 611 002

Accredited by NAAC (Grade A) | Accredited by NBA (AICTE, CSP)
Approved by AICTE - New Delhi and Affiliated to Anna University - Chennai

One week workshop on

E - CAD

Organized by

Department of Electrical & Electronics Engineering

Certificate



This is to certify that Mr. / Ms. / Mrs. R.ARUNKUMAR of E.G.S.Pillay Engineering college, (Autonomous)Nagapattinam has attended One week workshop on "E-CAD" on 07th & 11th January 2019.

ATTESTED

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

PRINCIPAL

E.G.S. Pillay Engineering College,

Thelthi, Nagore - 611 002.

Nagapattinam (Dt) Tamil Nadu.

[Signature]

HOD

CONVENER



E.G.S PILLAY ENGINEERING COLLEGE

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HOD

CONVENER

E.G.S. PILLAY ENGINEERING COLLEGE, NAGAPATTINAM

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai
Accredited by NAAC with 'A' Grade | An ISO 9001: 2008 Certified Institution

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
(NBA Accredited)

ONE WEEK VALUE ADDED COURSE

On

"INDUSTRIAL & SAFETY MANAGEMENT"



Course instructor: Mr.K.Manimaran, Trainer,

National Institute of occupational safety and fire safety management


for

2016-2020 batch students

Venue: GG HALL NO: 207

Date: 18-12.2018 to 22-12-2018

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Nagapattinam (Dt) Tamil Nadu.

E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CIRCULAR

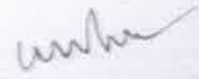
INTERNAL COMMUNICATION

14.12.2018

All the final year students are instructed to attend the value added course on "Industrial and safety management" to be held between 18.12.2018 to 22 .12.2018.

Venue: Seminar Hall

Time: 09.30 am - 04.30 pm


HOD/EEE

Copy to: IV year class in charge, all faculty members, non teaching staffs

ATTESTED


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Nagapattinam (Dt) Tamil Nadu.

E.G.S.Pillay Engineering College, Nagapattinam

Dept of Electrical and Electronics Engineering

VALUE ADDED COURSE

On

Industrial and safety management 2018

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18.12.2018 to 22.12.2018

Course instructor:

Mr.K.Manimaran, Trainer

National Institute of occupational safety and fire safety management

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- ✓ Face the challenges in the current industry scenario

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ENGINEERING COLLEGE
(AUTONOMOUS)**
Nagapattinam - 611 002
Affiliated to Anna University,
Chennai, Approved by UPEEP, New
Delhi
NARATHUR: NASE with
CRADENT
Department of Electrical and
Electronics Engineering
(Approved by NBA)
**VALUE ADDED COURSE
ON
"INDUSTRIAL AND
SAFETY MANAGEMENT"**

Course contents

Introduction to Safety

Industry Standards

Safety Codes

Regulations

Demonstrations


Real Time Study

Safety Evaluation

Course Overview

Resource Person: Mr. K. Maniathan, Trainer,
Narasimha Engineering College, Thiruvallur
Mr. B. Anandharaj, APETE
Mr. P. Anandharaj, APETE

ABOUT THE INSTITUTION



E. G. S. Pillay Engineering College (Autonomous) is one of the pioneering engineering institutions in the South Indian continent. It was established in the year 1985 under the sanction of the Government of Tamil Nadu and the approval of the All India Council for Technical Education, New Delhi and affiliated to Anna University, Chennai. The college has succeeded in NASET with 100% grade and all the programmes are accredited by NBA. The college has earned the reputation of being one of the most preferred colleges in the industry and parents all these years known for its excellent infrastructure and facilities for imparting the world-class engineer engineering culture. Its regular, consistent performance consistently. A platform to address the college has been set up long-range planning in college and career in progress and activities in support of the study who aspire to become successful Engineers, Scientists and Managers. In addition to this, the college has been successful in providing an integrated approach in progress and activities in support of the study of the aspirants to become successful Engineers, Scientists and Managers.

Vision
Envisioned to transform our 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 resources 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 centre of excellence in the emerging areas of research
- ✓ To offer continuing education and non-formal vocational education programmes that are beneficial to the society

Importance of Safety

The importance of safety in the industry is highlighted in the following manner:

Departmental Mission

- ✓ To provide quality education to the students in the field of engineering and technology
- ✓ To provide state-of-the-art facilities and resources 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 centre of excellence in the emerging areas of research
- ✓ To offer continuing education and non-formal vocational education programmes that are beneficial to the society

Date: 18-12-2018 to 21-12-2018

Signature

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,**

Requisition letter

12-12-2018

Nagapattinam

From,

R Anandaraj,
Associate professor
E.G.S.Pillay Engineering College,
Nagapattinam

To,

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

Through proper channel,

Sub: requisition for conducting value added course

Sir,

As we have planned to conduct a five day value added course on "Industrial safety & Management," from 18-12-2018 to 22-12-2018 for the III year students (2016-20) I request you to grant us permission to utilize the available facilities for conducting the programme in a effective manner.

Thanking you,

*Forwarded to Principal
Anandaraj*

R. Anandaraj
(R. Anandaraj)

ATTESTED

[Signature]
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E.G.S Pillay Engineering College, Nagapattinam
Department of Electrical and Electronics Engineering
Value added course
On
INDUSTRIAL SAFETY & MANAGEMENT

COURSE FEEDBACK

Date: 12.12.2018 to 22.12.2018

Name of the student: P. Kishore

Year III

Register number: S20816105026

{Score level 3- Good 2- Average 1- Poor put tick in the appropriate box}

1. Content of the course able to apply Engineering Knowledge

1

2

3

2. Ability to analyse the problem, design solutions and components for complex engineering problems

1

2

3

3. Whether to use research -based knowledge and research methods to provide valid conclusions

1

2

3

4. Usage of modern engineering and IT tools

1

2

3

5. Understand the impact of the professional engineering knowledge and assess the solutions in societal and environmental contexts

1

2

3

6. Able to apply ethical principles and commit to professional ethics and responsibilities

1

2

3

7. Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings

1

2

3

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8. Communicate effectively on complex engineering activity and demonstrate knowledge in multidisciplinary environments

1 2 3

9. Ability to engage in independent and life-long learning in the broadest context of the technological change in this course

1 2 3

10. Resource person/ instructor clarity and presentation

1 2 3

11. Arrangements and hospitality for the course


1 2 3

12. Any other points for the scope of improvement

Good Programme

Reel

- 1- Adequate
- 2- Good
- 3- More adequate


Course coordinator

ATTESTED

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

ONE WEEK VALUE ADDED COURSE

On

"INDUSTRIAL & SAFETY MANAGEMENT"

Attendance sheet

18.12.2018

S. NO	REGISTER NUMBER	STUDENT NAME	SIGNATURE
1.	820816105001	ABINAYA V	V. ABINAYA
2.	820816105002	ABINESH VARAN P	Abinaya
3.	820816105003	ABITHA A	Abitha
4.	820816105004	AGALYA C	Agalya
5.	820816105005	AGATHIES BABU M	Agathies
6.	820816105006	AKSHAYADEVI N	Akshaya
7.	820816105007	ANNADURAI P	Annadurai
8.	820816105008	APARNA J	Aparna
9.	820816105009	BALAGURU M	Balaguru
10.	820816105010	BARATH KUMAR B	Barath
11.	820816105011	BAVITHKUMAR P	Bavithkumar
12.	820816105012	BHARATHAN M	Bharathan
13.	820816105013	DAVID G	David
14.	820816105014	GANESH S	Ganesh
15.	820816105015	GOKILA T	Gokila
16.	820816105016	GOPINATH B	Gopinath
17.	820816105018	HARIHARAN B	Harihara
18.	820816105019	HARIHARAN K	Harihara
19.	820816105020	HARIHARASUDHAN M	Harihara
20.	820816105021	JAYACHANDIRAN E	Jayachandiran
21.	820816105022	KALAIVANI	Kalavani
22.	820816105023	KAVIYA K	Kaviya
23.	820816105024	KAVIYASHREE K M	Kaviyashree
24.	820816105025	KEERTHIKA R	Keerthika
25.	820816105026	KISHORE P	Kishore
26.	820816105028	Mohamed Najumudeen B	Mohamed Najumudeen
27.	820816105029	MOHAMED YUSUFF J	Mohamed Yusuff
28.	820816105030	MOHANRAJ P	Mohanraj
29.	820816105031	NAVEENKUMAR S	Naveenkumar
30.	820816105032	NAVEENKUMAR S	Naveenkumar
31.	820816105034	PIRAVIN K	Piravin
32.	820816105035	PRASANTH D	Prasanth
33.	820816105036	PRAVEEN L	Praveen
34.	820816105037	PRAVEENKUMAR M	Praveenkumar
35.	820816105038	RAGAVAN R	Ragavan
36.	820816105041	RAMESHKUMAR M	Rameshkumar

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 Thethi, Nagore - 611 002.
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37.	820816105042	SABEENA P	P. Sabaraj
38.	820816105043	SADIA SIVAM S	S. Sabaraj
39.	820816105044	SAIKUMAR A	J. Sankar
40.	820816105046	SAMINATHAN K	K. Sankar
41.	820816105047	SAROHINI R	P. Sankar
42.	820816105048	SHALINI J	J. Sankar
43.	820816105049	SHARINI T	T. Sankar
44.	820816105050	SHEYAM KUMARAN B	B. Sankar
45.	820816105051	SRIDHER B	B. Sankar
46.	820816105052	SURENDHAR S	S. Sankar
47.	820816105053	THIRAVIDAMANI S	S. Sankar
48.	820816105054	VENKATESAN S	S. Sankar
49.	820816105055	VIGNESH G	G. Sankar
50.	820816105056	VIGNESH K	K. Sankar
51.	820816105057	VIJAY R	R. Sankar
52.	820816105058	VINOTHAJ R	R. Sankar
53.	820816105301	ABIRAMI K	K. Sankar
54.	820816105309	S NEETHU SATHEESH	S. Sankar
55.	820816105302	GUHAN J	J. Sankar
56.	820816105303	A HAMED JAFER FAYAS	F. Sankar
57.	820816105305	KARKIL VIJAY D	D. Sankar
58.	820816105306	MANIVANNAN V	V. Sankar
59.	820816105307	MOHAMED MOUMINI M	M. Sankar
60.	820816105310	PRAVEEN V	V. Sankar
61.	820816105311	RAGUL J	J. Sankar
62.	820816105312	RAJAPRAKASH R	R. Sankar
63.	820816105313	RUBAN V	V. Sankar
64.	820816105314	SANTHOSH R D.O.B (29.5.97)	R. Sankar
65.	820816105315	SIVANATHAN R	R. Sankar
66.	820816105316	SIVANESAN M	M. Sankar
67.	820816105317	TAMILVANAN R	R. Sankar
68.	820816105318	TAMIZHARASAN N	N. Sankar
69.	820816105319	THANGAPANDIYAN R	R. Sankar
70.	820816105320	M.UKENTHERAN	R. Sankar
71.	820816105701	R SANTHOSH	R. Sankar
72.	820816105702	N SAMUEL NISAN	N. Sankar
73.	820816105501	N.VALAMPURINATHAN	N. Sankar

ATTESTED

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

Tamil Nadu.

Coordinator



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Value Added Course
On
INDUSTRIAL AND SAFETY MANAGEMENT

This is to certify that Mr./Ms.....**S. NAVEEN KUMAR**..... has
attended five days Value Added Course on "Industrial and safety management" from
18th to 22nd December 2018 at E.G.S. Pillay Engineering College, Nagapattinam.

ATTESTED


CONVENER


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Nagapattinam (Dt) Tamil Nadu.


PRINCIPAL



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Value Added Course
 On
INDUSTRIAL AND SAFETY MANAGEMENT

This is to certify that **Mr./Ms. K. S. B. RAO** has
 attended five days Value Added Course on "Industrial and safety management" from
 18th to 22nd December 2018 at E.G.S. Pillay Engineering College, Nagapattinam.

[Signature]
 CONVENER

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

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

[Signature]
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ONE WEEK VALUE ADDED COURSE

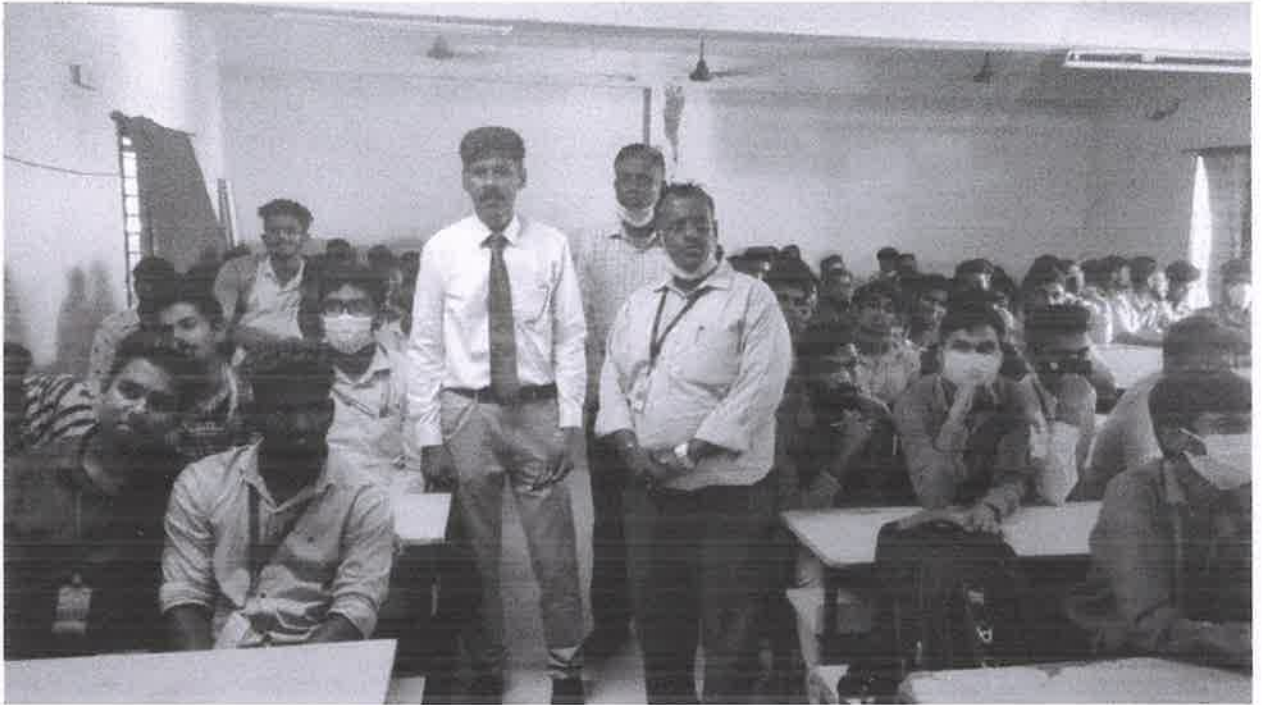
On

“INDUSTRIAL & SAFETY MANAGEMENT”

COURSE PHOTOS



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



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REPORT

A one week value added course has been organized by the department of electrical and electronics engineering department for the final year students (2016-20) entitled "INDUSTRIAL & SAFETY MANAGEMENT" which was commences on 18.12.2018 and ended 22.12.2018. This value added course was conducted by NIOS Fire&safety management studies director Mr.K.Manimaran, along with his team for the one week of period. The main purpose of conducting this course for the final year student is to ignite student to develop interpersonal skills on industrial management and study the safety measures and codes adopted in the industries. The course comprises theory, demo and field visits in the five day period of training period. This course with the fund spend up of Rs.45, 550 was successfully conducted with the financial assistance of the management and the department of Electrical and electronics. Of the total 72 registered third year students 56 students successfully got trained in this one week course and they have been issued with the certificate with special prizes for the active performers in all sessions. The students thoroughly utilize this one week course and acknowledge the outcome of this value added course with their feedback and suggestions. The department faculty Prof.B.A.Naveen Antony coordinate the entire course session with the assistance of the department head Prof Dr.V.Mohan and other teaching and non teaching staff members.

Reported by,


- Course coordinator

ATTESTED


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E.G.S.Pillay Engineering College, (Autonomous) Nagapattinam

Dept of Electrical and Electronics Engineering

INTERNAL CIRCULAR

7-12-2018

Value added course

It is informed to all final year (2015-19) students that a five day value added course on "SCILAB INTRODUCTION," been organized between 10-12-2018 to 14-12-2018. All the students of IV year EEE are instructed to attend the course without fail.

Time: 9.15 am – 4.30 Pm

Venue: EEE Seminar hall

(Circulated to IV year class)



HOD/EEE

Dr. V. SRINIVASAN M.E., Ph.D.
PROFESSOR & HEAD
Department of Electrical & Electronics Engg.
E.G.S. Pillay Engineering College, Nagapattinam

ATTESTED



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E.G.S.Pillay Engineering college,(Autonomous)Nagapattinam
Department of Electrical and Electronics Engineering
ONE WEEK VALUE ADDED COURSE

On

“Scilab INTRODUCTION”

Batch: 2015-19

Academic Year: 2018-19

Attendance details

S.No	REG.NO	NAME	10.12.18	11.12.18	12.12.18	13.12.18	14.12.18
1.	820815105001	Ajimohamed S	\	\	\	\	\
2.	820815105002	Arunachalam M	\	\	\	\	\
3.	820815105003	Arunkumar T	\	\	\	\	\
4.	820815105004	Bhuvaneshwaran N	\	\	\	\	\
5.	820815105005	Dharmarajan V	A	A	A	A	A
6.	820815105006	Divakar M	\	\	\	\	\
7.	820815105007	Eniyavan V	\	\	\	\	\
8.	820815105008	Gurubaran S	\	\	\	\	\
9.	820815105009	Jansirani V	\	\	\	\	\
10	820815105010	Jegadeesh S	\	A	\	\	\
11	820815105011	Karthikraja K	\	\	\	\	\
12	820815105012	Kaviyarasan R	\	\	\	\	\
13	820815105014	Lakshanya Sri B	\	\	\	\	\
14	820815105015	Madhan Babu J	A	A	A	A	A
15	820815105016	Mohamed Abdul Kader K	\	\	\	\	\
16	820815105017	Mohammed Nazim .M	\	\	\	\	\
17	820815105018	Praveen V	\	\	\	\	\
18	820815105019	Praveen Kumar S	\	\	\	A	\
19	820815105020	Premchandhar C	\	\	\	\	\
20	820815105021	Priyadhrshini M	\	\	\	\	\
21	820815105022	Raguvaran K	A	A	A	A	A
22	820815105023	Rajesh Kumar R	\	\	\	\	\
23	820815105024	Ramya R	\	\	\	\	\
24	820815105025	Ranjith M	\	\	\	\	\
25	820815105026	Roja C	\	\	\	\	\
26	820815105027	Sakthibalan P	\	\	\	\	\
27	820815105028	Sanjeevi C	\	\	\	\	\


ATTESTED

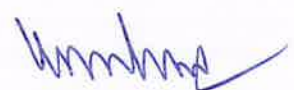

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Nagapattinam (Dt) Tamil Nadu.

28	820815105029	Santhosh Kumar M	\	\	\	\	\
29	820815105030	Siva P	\	\	\	\	\
30	820815105031	Siva S	A	A	A	A	A
31	820815105032	Sivakumar S	\	\	\	\	\
32	820815105033	Sriram V	\	\	\	\	\
33	820815105034	Sriramm R M	\	\	\	\	\
34	820815105035	Subalakshmi S	\	\	\	\	\
35	820815105036	Sugan D	\	\	\	\	\
36	820815105037	Thirumalai Rajan S	\	\	\	\	\
37	820815105039	Venkadaramanan A	\	\	\	\	\
38	820815105040	Venkadesh R	\	\	\	\	\
39	820815105041	Vignesh S	\	\	\	\	\
40	820815105042	Vignesh T	A	A	A	A	A
41	820815105043	Vijay R	\	\	\	\	\
42	820815105044	Vijayan M P	\	A	\	\	\
43	820815105045	Vijila V	\	\	\	\	\
44	820815105046	Vimanivel V	\	\	\	\	\
45	820815105047	Vishvaraj C	\	\	\	\	\
46	820815105301	Abdul Basik Sahib .S	\	\	\	\	\
47	820815105302	Agathiyan S	A	A	A	A	A
48	820815105303	Akilan.E	\	\	\	\	\
49	820815105304	Bhuvaneshwari .M	\	\	\	\	\
50	820815105305	Mani Kandan.S	\	\	\	\	\
51	820815105306	Mathankumar M	\	\	\	\	\
52	820815105307	Naveen Prasath.R	\	\	\	\	\
53	820815105309	Prem Kumar.C	\	\	\	\	\
54	820815105310	Ranjithkumar S	A	A	A	A	A
55	820815105311	Sathish.V	\	\	\	\	\
56	820815105312	Sathyabalan M	\	\	\	\	\
57	820815105313	M.Vignesh	\	\	\	\	\
58	820815105314	Vishwa M	A	A	A	A	A

10/12 11/12 12/12 13/12 14/12


Course coordinator


HOD

Dr. V. MOHAN M.E., Ph.D.,
PROFESSOR & HEAD
Department of Electrical & Electronics Engg
E.G.S. Pillay Engineering College - Nagapattinam

ATTESTED

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E.G.S PILLAY ENGINEERING COLLEGE

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SCILAB INTRODUCTION

Organized by

Department of Electrical & Electronics Engineering



Certificate

This is to certify that Mr. / Ms. / Mrs. Roja.C
of III - YEAR has attended Value added course on **SCILAB INTRODUCTION**
on 10th & 14th December 2018.

CONVENER

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

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of III - YEAR has attended Value added course on **SCILAB INTRODUCTION**

on 10th & 14th December 2018.

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Dr. S. RAMABALAN M.E., Ph.D.,
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Nagapatnam (Dt) Tamil Nadu.

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Certificate

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of III-EEE has attended Value added course on **SCILAB INTRODUCTION**

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HOD



IQAC

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

VALUE ADDED COURSE ON
SCILAB INTRODUCTION

FEEDBACK FORM

DATE: 14/12/2022

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

1. How much the Course is useful for you?

5 4 3 2 1

2. Course Content

5 4 3 2 1

3. Interaction with students

5 4 3 2 1

4. Content Delivery method

5 4 3 2 1

5. Whether all your queries are answered

5 4 3 2 1

6. How the difficult points are handled


5 4 3 2 1

Any other points

.....

.....

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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.


Signature of the student

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED COURSE ON
SCILAB INTRODUCTION

FEEDBACK FORM

DATE: 14/12/2018

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

1. How much the Course is useful for you?

5	4 ✓	3	2	1
---	-----	---	---	---

2. Course Content

5 ✓	4	3	2	1
-----	---	---	---	---

3. Interaction with students

5	4 ✓	3	2	1
---	-----	---	---	---

4. Content Delivery method

5	4 ✓	3	2	1
---	-----	---	---	---

5. Whether all your queries are answered

5 ✓	4	3	2	1
-----	---	---	---	---

6. How the difficult points are handled

5	4 ✓	3	2	1
---	-----	---	---	---

Any other points

.....
.....

ATTESTED

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Signature of the student

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED COURSE ON
SCILAB INTRODUCTION

FEEDBACK FORM


DATE: 14/12/2018

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

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

Any other points Nice session

.....
.....

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


Signature of the student



What is SCILAB?

- (1) SCILAB is a freely distributed and open source scientific software package
- (2) A powerful open computing environment for Engineering and Scientific applications
- (3) Developed since 1990 by researchers from INRIA (Institut Nationale de Recherche en Informatique et en Automatique) and ENPC (National School of Bridges and Roads).
- (4) Now maintained and developed by Scilab consortium since 2003.
- (5) Integrated into Digiteo foundation in July 2008
- (6) The current version is 5.2.1 (February 2010)

2



What is SCILAB? ...contd

- 7) Since 1994 it is distributed freely along with source code through the Internet. (www.scilab.org)
- 8) Scilab users can develop their own module so that they can solve their particular problems.
- 7) The Scilab language allows to dynamically compile and link other languages such as Fortran and C: this way, external libraries can be used as if they were a part of Scilab built-in features.
- 8) Scilab also interfaces LabVIEW, a platform and development environment for a visual programming language from National Instruments.

3



Scilab's Main Features:

1. A high-level programming language
2. Scilab is an interpreted language
3. Integrated object-oriented 2-D and 3-D graphics with animation
4. A dedicated Editor
5. An XML-based help system
6. Interface with symbolic computing packages (Maple and MuPAD 3.0)
7. An interface with Tcl/Tk
8. Scilab works with most Unix systems including GNU/Linux and on Windows (9X/NT/2000/XP/Vista/7), and Mac operating system

4



Scilab coded Toolboxes

1. Linear algebra and Sparse matrices
2. Polynomials and Rational functions
3. 2-D and 3-D graphics with animation
4. Interpolation and Approximations
5. Linear, Quadratic and Nonlinear Optimization
6. ODE solver and DAE solver
7. Classical and Robust Control, LMI Optimization
8. Differentiable and Non-differential Optimization
9. Signal Processing
10. Statistic
11. Scicos: A hybrid dynamic system modeler and simulator
12. Parallel Scilab using PVM
13. Metanet: Graphs and Networks

5

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Typical uses

- Educational Institutes, Research centers and companies
- Math and computation
- Algorithm development
- Modeling, simulation, and visualization
- Scientific and engineering graphics, exported to various formats so that can be included into documents.
- Application development, including GUI building

Basic data element (Matrix)

Array : not require dimensioning
Allow to solve problem with matrix and vector formulations

6



Desktop tool and development environment

Set of tools and facilities
Graphical UI : Scilab Console, Sciab editor, Scilab help browser, MATLAB to Scilab Translator

Mathematics Function Library

Collection of computational algorithm : sum, sine, matrix functions

Language

High-level matrix/array language with flow, functions, structure

Graphics

Extensive facilities for displaying vectors and matrices as graphs
High-level functions for 2-D and 3-D data visualization

External Interfaces

Allows to write C and Fortran programs that interact with SCILAB

7



Getting Started with Scilab

Starting the Scilab program

- Start the Scilab program by double-clicking Scilab-5.2.1 icon on the desktop
- Start button on the desktop >Programs>Scilab-5.2.1>Scilab-5.2.1
Automatically loading
Tools for managing files, variables and applications

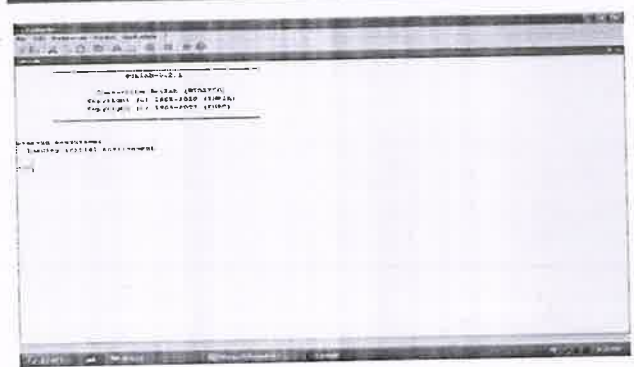
Quitting the Scilab program

- To end SCILAB, **File > quit** in the scilab console
- Type **'quit'** in the Scilab Console
- The user enters commands at the prompt ---->

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Scilab Default Console



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Scilab Help Browser



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Help Features



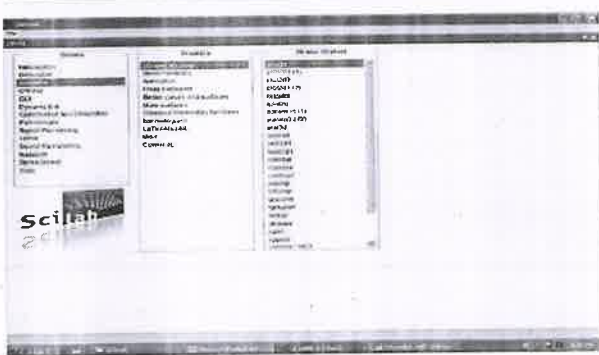
To open SCILAB help, click help icon (?) in the toolbar or type help at the command prompt ----->

- Help Browser
- help command (help inv, help optim)
(This is useful when the name of the function is already Known)
- To obtain a list of Scilab functions corresponding to a keyword, the command apropos followed by the keyword should be used.
--> apropos eigenvalues <Enter>
- Help can also be from Scilab demonstrations
- This is available from the console, in the menu ? > Scilab Demonstrations.

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Scilab Demos Window



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Arithmetic Operations:



- + addition
- - subtraction
- * multiplication
- / right division i.e. $X/Y = XY^{-1}$
- \ left division i.e. $X \setminus Y = X^{-1}Y$
- ^ power i.e. X^Y
- ** power (same as ^)
- ' transpose conjugate

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Scilab as a Calculator

```
-->6+5
ans =
11.

-->6+5;

-->7+8/2
ans =
11.

-->(7+8)/2
ans =
7.5

-->4+5/3+2
ans =
7.6666667

-->5^3/2
ans =
62.5

-->27^(1/3)+32^0.2
ans =
5.

-->27^1/3+32^0.2
ans =
11.
```

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Scilab as a Calculator



```
-->0.7854-(0.7854)^3/(1*2*3)+0.785^5/(1*2*3*4*5)..
-->-(0.785)^7/(1*2*3*4*5*6*7)
ans =
0.7071016

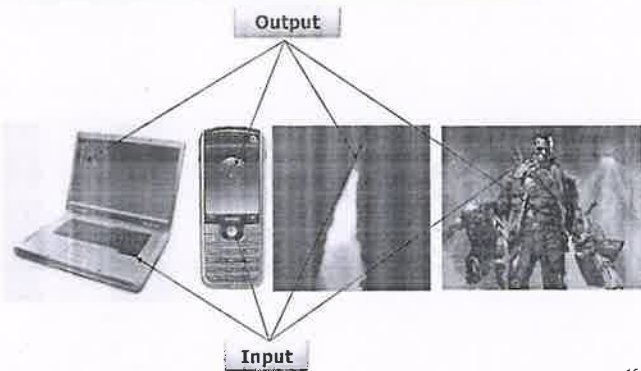
-->// This is my comment .
```

- In Scilab, any line which ends with two dots is considered to be the start of a new continuation line.
- Any line which begins with two slashes "/" is considered by Scilab as a comment and is ignored.
- More than one command can be entered on the same line by separating the commands by semicolon (;) or a comma (,)

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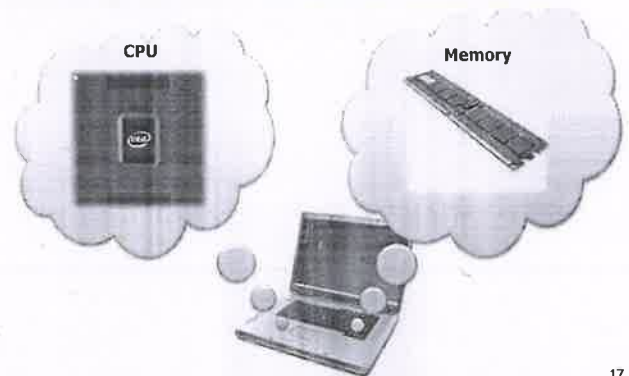
Background - computers



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Background - hardware

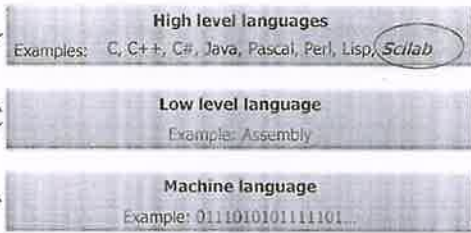


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Background - software



Another important player:
The operating system



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Basic Elements of Scilab:

- In Scilab, everything is a matrix
- All real, complex, Boolean, integer, string, and polynomial variables are matrices.
- Scilab is an interpreted language, which implies that there is no need to declare a variable before using it. Variables are created at the moment where they are first set.
- In Scilab "=" sign is called assignment operator.


```

-->x=10      10 is assigned to variable x
x =
  10.
-->x=3*x-12   A new value is assigned to x. The new values is
x =          three time of previous value of x minus 12.
  18.
      
```
- Variable names may be as long as user wants but only first 24 characters are taken into account.
- Scilab is case sensitive. A is not equal to a.

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Predefined Variables:

Certain variables are predefined and write-protected

- %i $i = \sqrt{-1}$ imaginary unit
- %pi $\pi = 3.1415927 \dots$ pi grek
- %e $e = 2.718281 \dots$ number of Nepero
- %eps $\epsilon = 2.2 \times 10^{-16}$ precision (machine dependent)
- %inf infinity
- %nan NotANumber
- %s s polynomial variable
- %z z polynomial variable
- %t true boolean variable
- %f false boolean variable

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Some useful Scilab Commands

General commands:

- clock Provide clock time and date as a vector [year month day hour minute seconds]


```

-->clock
ans =
  2010.  4.  20.  23.  38.  59.
      
```
- date Current date a string


```

-->date
ans =
  20-Apr-2010
      
```
- ver Version information for Scilab


```

-->ver
ans =
!Scilab Version:      5.2.0.1266391513  !
      
```

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Some useful Scilab Commandscontd.

■ Workspace Commands:

who Lists the variables currently in the scilab workspace
whos Same a who but provides more information on size, type
whos -type constants List the variables that can store real or complex constant
Whos -name a List all variables with name starting with the letter 'a'
what Lists the scilab primitives
clear Kills the variables which are not protected.
clear xyz Kills the variables specified in the command
clc Clears screen
clf Clears figure window
diary List of current session commands



Some useful Scilab commandscontd

■ Directory commands:

pwd Provides scilab current working directory
-->pwd
ans =
C:\Program Files\scilab-5.2.1
copyfile Copies a file
mkdir Makes a a new directory/folder in the current directory
■ Termination Commands:
quit Quits Scilab
exit Same as quit command



Creating Arrays (Vectors and Matrices)

```
-->a=[1 2 3 4 5 6 7 8 9 10]      Create a row vector
a =
 1.  2.  3.  4.  5.  6.  7.  8.  9. 10.
-->a=[1,2,3,4,5,6,7,8,9,10]      Another way of creating a row vector
a =
 1.  2.  3.  4.  5.  6.  7.  8.  9. 10.
-->a=[1;2;3;4;5;6;7;8;9;10]      Create a column vector
a =
 1.
 2.
 3.
 4.
 5.
 6.
 7.
 8.
 9.
10.
```



Vectors and matricescontd.

```
Variable_name=m:q:n (m=first term, q=spacing, n=last term)
-->a=1:10      Creating a row vector with colon (:) operator
a =
 1.  2.  3.  4.  5.  6.  7.  8.  9. 10.
-->a=1:1:10    Specified increment is one
a =
 1.  2.  3.  4.  5.  6.  7.  8.  9. 10.
-->a=1:2:11    Specified increment is two
a =
 1.  3.  5.  7.  9. 11.
-->a=100:-10:0  Specified increment is -10.
a =
100.  90.  80.  70.  60.  50.  40.  30.  20.  10.  0.
```

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Vectors and matricescontd.

```
-->a=[2+3*i, 4+1*i, 3, 5, 6] Vector with complex numbers
a =
  2. + 3.i  4. + i  3.  5.  6.
-->b=[1+6*i, 4+6*i, 3, 4, 6]
b =
  1. + 6.i  4. + 6.i  3.  4.  6.
-->c=a+b Vector addition
c =
  3. + 9.i  8. + 7.i  6.  9.  12.
-->a-b Vector subtraction
ans =
  1. - 3.i - 5.i  0  1.  0
-->a*b
!-error 10
Inconsistent multiplication.
```

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Vectors and matricescontd.

```
-->a=linspace(0,10,5) Generates a vector of 5 elements, 0 is the first
                        element and 10 is the last element
a =
  0.  2.5  5.  7.5  10.
-->a=logspace(0,4,3) Generates a logarithmically spaced vector of length
                    3 between 10^0 to 10^4
a =
  1.  100.  10000.
-->a=[1 10 25 50 15]
a =
  1.  10.  25.  50.  15.
-->a(3) Addressing a vector element
ans =
  25.
```

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Vectors and matricescontd.

```
-->a=[1 10 25 50 15]
a =
  1.  10.  25.  50.  15.
-->b=sum(a) Sum of all elements
b =
  101.
-->c=mean(a) Average of the elements
c =
  20.2
-->d=length(a) Number of elements in the vector
d =
  5.
-->e=max(a) Maximum value in the vector
e =
  50.
```

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Vectors and matricescontd.

```
-->f=min(a) Minimum value in the vector
f =
  1.
-->g=prod(a) Product of elements in the vector
g =
  187500.
-->h=sign(a) Returns 1 if the sign of an element is the
            vector is +ve, 0 if element is 0, -1 if the element is -ve.
h =
  1.  1.  1.  1.  1.
-->i=find(a) Returns the indices corresponding to the non-zero
            entry of the array a
i =
  1.  2.  3.  4.  5.
```

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Vectors and matricescontd.

```

-->p=[1.4 10.7 -1.1 20.9]
p =
  1.4 10.7 -1.1 20.9
-->a=fix(p)
a =
  1 10 -1 20
-->b=floor(p)
b =
  1 10 -2 20
-->c=ceil(p)
c =
  2 11 -1 21
-->d=round(p)
d =
  1 11 -1 21
-->e=gsort(p)
e =
  20.9 10.7 1.4 -1.1

```

Rounds the elements of the vector p to the nearest integer towards zero

Rounds the elements of the vector p to the nearest integer towards $-\infty$

Rounds the elements of the vector p to the nearest integer towards $+\infty$

Rounds the elements of the vector p to the nearest integer

Sorts the elements of p in descending order



Vectors and matricescontd.

```

-->A=[16 3 2 13;5 10 11 8;9 6 7 12;4 15 14 1]
A =
  16 3 2 13
  5 10 11 8
  9 6 7 12
  4 15 14 1
-->B=sum(A)
B =
  136
-->C=sum(A,'c')
C =
  34
  34
  34
  34
-->D=sum(A,'r')
D =
  34 34 34 34

```

Entering a matrix use space or , for row elements use ; to terminate a row

Gives the sum of all the elements

Sum of the elements of column

Sum of the row elements



Matrix Addressing:

```

-->A=[3 11 6 5;4 7 10 2;13 9 0 8]
A =
  3 11 6 5
  4 7 10 2
  13 9 0 8
-->A(2,3)
ans =
  10
-->A(:,2)
ans =
  11
  7
  9

```



Matrix Addressing

```

-->A(2,:)
ans =
  4 7 10 2
-->A(9)
ans =
  0
-->A(1:2,1:2)
ans =
  3 11
  4 7

```

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Vectors and matricescontd.

```

-->B=A(3:-1:1,1:4)
B =
    13.  9.  0.  8.
     4.  7. 10.  2.
     3. 11.  6.  5.
-->B=A(3:-1:1,1:4)
B =
    13.  9.  0.  8.
     4.  7. 10.  2.
     3. 11.  6.  5.
-->A(1:3,4)=[]
A =
     3. 11.  6.
     4.  7. 10.
    13.  9.  0.

```



Vectors and matricescontd.

```

-->eye(2,2)
ans =
     1.  0.
     0.  1.
-->ones(2,3)
ans =
     1.  1.  1.
     1.  1.  1.
-->zeros(3,3)
ans =
     0.  0.  0.
     0.  0.  0.
     0.  0.  0.
-->A=[1 2;3 4]; B=[2 3; 5 6];
-->C=[A,B]
C =
     1.  2.  2.  3.
     3.  4.  5.  6.

```



Vectors and matricescontd.

```

-->A=rand(2,3)
A =
    0.8497452  0.8782165  0.5608486.
    0.6857310  0.0683740  0.6623569
-->A=[1 2 3; 4 5 6;7 8 9];
-->B=diag(A)
B =
     1.
     5.
     9.
-->C=diag(A,1)
C =
     2.
     6.
    10.
-->D=diag(A,-1)
D =
     4.
     8.

```



Vectors and matricescontd.

```

-->A=[1 2;0 4]; -->det(A)
ans =
     4.
-->rank(A)
ans =
     2.
-->trace(A)
ans =
     5.
-->B=inv(A)
B =
     1. -0.5
     0.  0.25
-->norm(A)
ans =
    4.495358
-->C=A'
C =
     1.  0.
     2.  4.

```

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Vectors and matricescontd.

```

-->p=poly(A,'x')
p =
      2
    4 - 5x + x
-->q=spec(A)
q =
    1.
    4.
ans =
    0.  0.  0.
    0.  0.  0.
    0.  0.  0.
-->A=[1 2;3 4]; B=[2 3; 5 6];
-->C=[A,B]
C =
    1.  2.  2.  3.
    3.  4.  5.  6.

```

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Vectors and matricescontd.

Matrix operators and elementwise operators

- | | |
|-----------------------------|----------------------------------|
| ■ + addition | .+ elementwise addition |
| ■ - subtraction | .- elementwise subtraction |
| ■ * multiplication | .* elementwise multiplication |
| ■ / right division | ./ elementwise right division |
| ■ \ left division | .\ elementwise left division |
| ■ ^ or ** power | .^ elementwise power |
| ■ ' transpose and conjugate | .' transpose (but not conjugate) |

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Scilab Editor



- When several commands are to be executed, it may be more convenient to write these statements into a file with Scilab editor. To execute the commands located in such a file, the exec function can be used, followed by the name of the script. This file generally has the extension .sce or .sci, depending on its content:
- Files having the .sci extension are containing Scilab functions and executing them loads the functions into Scilab environment (but does not execute them),
- Files having the .sce extension are containing both Scilab functions and executable statements.
- Executing a .sce file has generally an effect such as computing several variables and displaying the results in the console, creating 2D plots, reading or writing into a file, etc...

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Our first script (Sce-file)

The editor can be accessed from the menu of the console, under the Applications > Editor menu, or from the console as:

```
--> editor ()
```



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Another Script File



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Scilab Functions



- It is possible to define new functions in the scilab.
- To define a new function, we use the function and endfunction Scilab keywords.

```
function y = myfunction ( x )
    y = 2 * x
endfunction
```

```
-->y=myfunction(3)
y =
    6.
-->y=myfunction(8)
y =
    16.
```

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Scilab Functions ...contd



- Functions can have an arbitrary number of input and output arguments so that the complete syntax for a function which has a fixed number of arguments is the following:

```
[o1 , ... , on] = myfunction ( i1 , ... , in )
```

- The input and output arguments are separated by commas ",". Notice that the input arguments are surrounded by opening and closing braces, while the output arguments are surrounded by opening and closing square braces .

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Computer precision limitations

- How much is:
-->0.42 + 0.08 - 0.5
ans =

Why ??!#?@

0,

- >0.42 - 0.5 + 0.08
ans =

- 1.388D-17



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Polynomials

- A polynomial can be created in two ways. One way is to define the polynomial in terms of its roots and the other way is to define it in terms of its coefficients.

```
-->p1 = poly([-1 -2], 'x')
```

```
p1 =
```

$$x^2 + 3x + 2$$

```
-->p1 = poly([-1 -2], 'x', 'r')
```

```
p1 =
```

$$x^2 + 3x + 2$$

```
-->p2 = poly([2 3 1], 'x', 'c')
```

```
p2 =
```

$$2x^2 + 3x + 1$$

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Polynomials ...contd.

```
-->roots(p1)
```

```
ans =
```

```
- 1.
```

```
- 2.
```

```
-->p3=p1+p2
```

```
p3 =
```

$$4x^2 + 6x + 2$$

```
-->p4=p1*p2
```

```
p4 =
```

$$4x^4 + 12x^3 + 13x^2 + 6x + 2$$

```
-->p1==p2
```

```
ans =
```

```
T
```

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Polynomialscontd

```
-->coeff(p1)
```

```
ans =
```

```
2. 3. 1.
```

```
-->derivat(p1)
```

```
ans =
```

```
3 + 2x
```

```
-->c=companion(p1)
```

```
c =
```

```
-3. -2.
```

```
1. 0.
```

```
-->spec(c)
```

```
ans =
```

```
- 2.
```

```
- 1.
```

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Polynomials ...contd.

```
-->p6=poly(c,'x')
```

```
p6 =
```

$$x^2 + 3x + 2$$

```
-->p=(1+2*x+3*x^2)/(4+5*x+6*x^2)
```

```
p =
```

$$\frac{1 + 2x + 3x^2}{4 + 5x + 6x^2}$$

```
-->numer(p)
```

```
ans =
```

$$1 + 2x + 3x^2$$

```
1 + 2x + 3x
```

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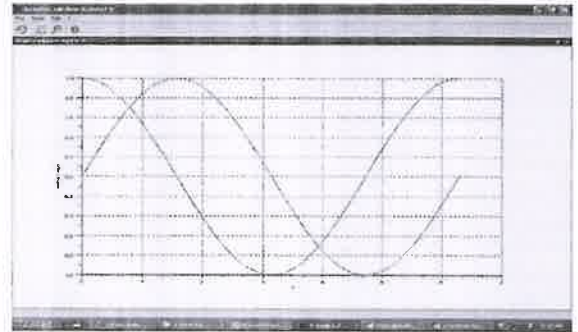
Plotting Graphs (1)

```
-->x=[0:%pi/16:2*%pi];  
-->y=[cos(x) sin(x)];  
-->plot2d(x,y)  
-->xgrid  
-->xlabel('x')  
-->ylabel('sin(x), cos(x)')
```

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Plotting Graphs (2)



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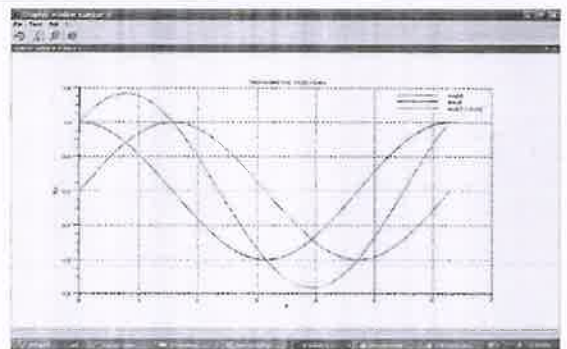
Plotting Graphs (3)

```
-->x=[0:%pi/32:2*%pi];  
-->y=[cos(x) sin(x) cos(x)+sin(x)];  
-->plot(x, y); xgrid(1);  
-->xtitle('TRIGINOMETRIC FUNCTIONS', 'x', 'f(x)');  
-->legend('cos(x)', 'sin(x)', 'cos(x) + sin(x)', 1, %F);
```

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Plotting Graphs (4)



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Conclusions

- Scilab is a non-commercial open source platform for Engineering and Scientific computations.
- Scilab is ideal for educational institutes, schools and industries.
- Scilab/Scicos is a better alternative for Matlab/Simulink.
- Students can perform mathematical computations, algorithm development, simulation, prototyping, and data analysis using scilab.
- A valuable tool for researchers at no cost.

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THANK YOU

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“SIMULATION OF POWER
ELECTRONIC CIRCUITS”**

Syllabus

- Introduction to power electronic simulation
- Development of basic simulation models
- Parameter setting of power circuit components
- Simulation of analysis of buck converter
- Simulation of analysis of buck –boost converter

Course Overview

Resource Person

Mr.M.Vijayakumar,Trainer

Course Coordinator

Mr.R.Anandaraj,AP/EEE

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 programmes 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.

Vision

Envisioned to transform our 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 resources 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 centre of excellence in the emerging areas of research
- ✓ To offer continuing education and non-formal vocational education programmes that are beneficial to the society

Department Vision

The department is envisioned to produce globally competent electrical and electronics engineering

Department Mission

- ✓ To impart the contemporary knowledge in the field of electrical and electronics engineering with high human values
- ✓ To offer state-of-the-art facilities for conducive learning and conducting research
- ✓ To train the students for professional career and higher education by imparting self-learning and interpersonal skills.

Date: 17-12-2018 to 21-12-2018

(Five Days)

Time: 9.30 am to 4.30 pm

E.G.S.Pillay Engineering college,(Autonomous) Nagapattinam

Department of Electrical and Electronics Engineering

13-12-2018

Internal circular

Value added course

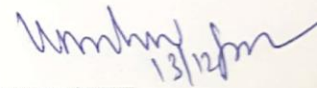
All the post graduate III Semester students are informed to attend the value added course on **“SIMULATION OF POWER ELECTRONIC CIRCUITS”** from **17-12-2018 to 21-12-2018**.

Venue: Simulation laboratory

Time: 09.30 am -04.30 pm



Course coordinator



HOD/EEE

(to be circulated to II year M.E class room)

E.G.S.Pillay Engineering college,(Autonomous) Nagapattinam

Department of Electrical and Electronics Engineering


List of the students registered for the

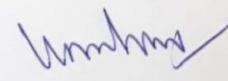
Value added course

On

“SIMULATION OF POWER ELECTRONIC CIRCUITS”

S.No	Name of the student	Register number
1.	ANITHA V	E17PEF001
2.	CHAKKARAVARTHI C	E17PEF004
3.	JANBAGALAKSHMI R	E17PEF005
4.	JAYASRI J	E17PEF006
5.	KALAIVANI K	E17PEF007
6.	KEERHANA N	E17PEF008
7.	MIDULA N	E17PEF009
8.	PAVITHRA M	E17PEF010
9.	SANGEETHA M	E17PEF011
10.	SARAWATHI M	E17PEF012
11.	SENTHILKUMAR D	E17PEF013
12.	SETHURAMAN A	E17PEF014
13.	SHREE AAKSHA LEKSHMAN	E17PEF015
14.	UMABHRATHI B S	E17PEF017


Course coordinator



HOD/EEE

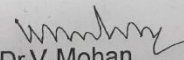



Certificate

The Consultancy Services Division of E.G.S. Pillay Engineering College (Autonomous),
Certifies that Mr/Ms...CHAKKARAVARTHI, L....has been awarded this certificate for the
successful completion of Value added course on "SIMULATION OF POWER
ELECTRONIC CIRCUITS" from 17-12-2018 to 21-12-2018 organized by the Department of
Electrical and Electronics Engineering, E.G.S. Pillay Engineering College.

Certificate No: EGSPCS/2018/EEE/TRG/01/004 Issue
Date: 24/12


Dr. T. Suresh Padmanabhan
Department co-ordinator


Dr. V. Mohan
HOD/EEE


Prof. M. Vijayakumar
Director Consultancy Services

EGSP
Consultancy Services
Training/Design/Consultancy

EGSPCS


Phone: 04365 25112
Web : www.egspec.org
Email : consultancy@egspec.org

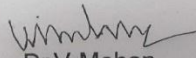



Certificate

The Consultancy Services Division of E.G.S. Pillay Engineering College (Autonomous), Certifies that Mr/Ms... ANITHA...V..... has been awarded this certificate for the successful completion of Value added course on **“SIMULATION OF POWER ELECTRONIC CIRCUITS”** from 17-12-2018 to 21-12-2018 organized by the Department of Electrical and Electronics Engineering, E.G.S. Pillay Engineering College.

Certificate No: EGSPCS/2018/EEE/TRG/01/001... Issue
Date: 24/12


Dr. T. Sureshpadmanabhan
Department co-ordinator


Dr. V. Mohan
HOD/EEE


Prof. M. Vijayakumar
Director Consultancy Services

E.G.S.Pillay Engineering college,(Autonomous) Nagapattinam

Department of Electrical and Electronics Engineering

Value added course

On


“SIMULATION OF POWER ELECTRONIC CIRCUITS”

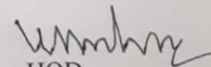
ACADEMIC YEAR :2018-19

Date :17-12-2018-21-12-2018

COURSE ATTENDANCE

S.No	Name of the student	Register number	17/12	18/12	19/12	20/12	21/12
1.	ANITHA V	E17PEF001	ch	ch	ch	ch	ch
2.	CHAKKARAVARTHI C	E17PEF004	ch	ch	ch	ch	ch
3.	JANBAGALAKSHMI R	E17PEF005	ch	ch	ch	ch	ch
4.	JAYASRI J	E17PEF006	ch	ch	ch	ch	ch
5.	KALAIVANI K	E17PEF007	ch	A	ch	ch	ch
6.	KEERHANA N	E17PEF008	ch	ch	ch	ch	ch
7.	MIDULA N	E17PEF009	ch	ch	ch	ch	ch
8.	PAVITHRA M	E17PEF010	ch	ch	A	ch	ch
9.	SANGEETHA M	E17PEF011	ch	ch	ch	ch	ch
10.	SARAWATHI M	E17PEF012	ch	ch	ch	ch	ch
11.	SENTHILKUMAR D	E17PEF013	ch	A	ch	ch	ch
12.	SETHURAMAN A	E17PEF014	ch	ch	ch	ch	ch
13.	SHREE AAKSHA LEKSHMAN	E17PEF015	ch	ch	ch	A	ch
14.	UMABHRATHI B S	E17PEF017	ch	ch	ch	ch	ch


Course coordinator


HOD

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED COURSE ON
"SIMULATION OF POWER ELECTRONIC CIRCUITS"
FEEDBACK FORM

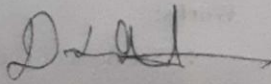
DATE: 21-12-2018

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

- | | | | | | |
|---|---|-----|---|---|---|
| 1. How much the Course is useful for you? | 5 | 4 ✓ | 3 | 2 | 1 |
| 2. Course Content | 5 | 4 ✓ | 3 | 2 | 1 |
| 3. Interaction with students | 5 | 4 ✓ | 3 | 2 | 1 |
| 4. Content Delivery method | 5 | 4 ✓ | 3 | 2 | 1 |
| 5. Whether all your queries are answered | 5 | 4 ✓ | 3 | 2 | 1 |
| 6. How the difficult points are handled | 5 | 4 ✓ | 3 | 2 | 1 |

Any other points

Useful Programme


Signature of the student