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Department of Biomedical Engineering

VALUE ADDED COURSE ON

"MEMS TECHNOLOGY AND ITS BIOMEDICAL APPLICATIONS "

DATE OF PROGRAM: 14.12.20 TO 18.12.20

Resource Person:

Dr. R.JOSEPH DANIEL, Professor and Director, National MEMS design center, Department of Electronics and Instrumentation, Annamalai University, Chidambaram

CONVENOR
Dr.R.Ganesan
HOD / BME

PRINCIPAL
Dr.S. Ramabalan

E.G.S PILLAY ENGINEERING COLLEGE

VALUE ADDED COURSE

"MEMS TECHNOLOGY AND ITS BIOMEDICAL APPLICATIONS "

Academic year 2020-2021(even semester)

DATE OF PROGRAM: 14.12.20 TO 18.12.20

PROGRAM SCHEDULE:

DAY 1: FN: **BASICS OF MEMS TECHNOLOGY**

AN: INTRODUCTION TO NANO/MEMS TECHNOLOGY

DAY 2 :FN: **MEMS DEVICES**

AN: VARIOUS MEMS DEVICES

DAY 3 : FN: **FABRICATION AND CHARACTERIZATOIN**

AN: FABRICATION METHODS OF MEMS DEVICES

DAY 4 : FN: **MEMS BIO SENSORS**

AN: DIFFERENT BIOSENSORS BASED ON MEMS TECHNOLOGY

DAY 5: FN: BIOMEDICAL APPLICATIONS OF MEMS

AN: VALDICTORY FUNCTION

TIMING:

FN:10 AM– 12.30PM

AN:1.30PM TO 4.00 PM

EXPERT :

Dr. R.JOSEPH DANIEL, Professor and Director, National MEMS design center, Department of Electronics and Instrumentation , Annamalai University, Chidambaram

CONVENOR
Dr.R.Ganesan
Prof. and Head / BME
E.G.S.Pillay Engineering College

VALUE ADDED COURSE

"MEMS TECHNOLOGY AND ITS BIOMEDICAL APPLICATIONS "

Academic year 2020-2021(even semester)

DATE OF PROGRAM: 14.12.20 TO 18.12.20

ENROLLED LIST:

S.NO	REGISTER NUMBER	NAME
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2	E19BMR002	ABINAYA R
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57	EI19BML302	Krishna G
58	EI19BML303	Poovarasan.R
59	EI19BML304	S.Ragul

CONVENOR

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"MEMS TECHNOLOGY AND ITS BIOMEDICAL APPLICATIONS "

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2	E19BMR002	Abinaya R					
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DR.R.GANESAN
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CERTIFICATE

This Certificate is presented to

ABINAYA . R II . BME

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Professor & HOD/ Biomedical Engineering

Dr.S.Ramabalan
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LAKSHMI . B II BME

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YUVARAJ.K II BME

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This Certificate is presented to

BALAJI . C. II BME

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Professor & HOD/ Biomedical Engineering

Dr.S.Ramabalan
Principal

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This Certificate is presented to

MOHAMED SHAHIDH.M. II BME

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Department of Biomedical Engineering

VALUE ADDED COURSE ON

"BIOPOTENTIAL MEASUREMENTS AND ELECTROPHYSIOLOGY AND 3-D PRINTING"

DATE OF PROGRAM: 03.05.21 TO 07.05.21

EXPERT :

Dr. KIRAN GEORGE, Associate Professor, Department of Biomedical Engineering, CIT, Chennai

Dr.V. SIVARAMAN , Professor, Department of Mechanical Engineering, E.G.S. Pillay Engineering College

CONVENOR

Dr.R.Ganesan

HOD / BME

PRINCIPAL

Dr.S. Ramabalan

E.G.S.PILLAY ENGINEERING COLLEGE

VALUE ADDED COURSE

COURSE NAME:" BIOPOTENTIAL MEASUREMENTS AND ELECTROPHYSIOLOGY AND 3-D PRINTING "

PROGRAME DATE: : 03.05.21 TO 07.05.21

PROGRAM SCHEDULE

DAY 1: FN: BASICS OF BIOPOTENTIAL MEASUREMENTS

AN: BIOELECTRIC CURRENT RECORDINGS FROM THE HEART

DAY 2 :FN: BIOELECTRIC CURRENT RECORDINGS FROM THE BRAIN

AN: BIOELECTRIC CURRENT RECORDINGS FROM THE MUSCLE

DAY 3 : FN:BASICS OF ELECTROPHYSIOLOGY

AN: RECORDING OF SINGLE CELL RECORDING FROM CANCER CELLS

DAY 4 : FN: BASICS OF 3D PRINTING

AN: HANDS ON-LAB SESSION

DAY 5: FN: BIOMEDICAL APPLICATIONS OF 3D PRINTING

AN: VALDICTORY FUNCTION

TIMING:

FN:10 AM– 12.30PM

AN:1.30PM TO 4.00 PM

EXPERT :

Dr. KIRAN GEORGE, Associate Professor, Department of Biomedical Engineering, CIT, Chennai

Dr.V. SIVARAMAN , Professor, Department of Mechanical Engineering, E.G.S. Pillay Engineering College

CONVENOR

Dr.R.Ganesan

Prof. and Head / BME

E.G.S.Pillay Engineering College

DEPARTMENT OF BIOMEDICAL ENGINEERING

VALUE ADDED COURSE

TITLE: " BIOPOTENTIAL MEASUREMENTS AND ELECTROPHYSIOLOGY AND 3-D PRINTING "

(3rd to7th May 2021)

ENROLLED LIST:

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STUDENTS ATTENDANCE

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39	E19BMR040	PRAKASH KUMAR I					
40	E19BMR041	PRASANNA KUMAR R					
41	E19BMR042	PRAVEENA G					
42	E19BMR043	Praveena S					
43	E19BMR044	RAHILAH NOOR S					
44	E19BMR045	RESHMA V					
45	E19BMR047	SANOFAR N					
46	E19BMR048	SANTHIYA B					
47	E19BMR049	SHARMILA S					
48	E19BMR050	SINEKA C					
49	E19BMR051	SRI JANANI A K					
50	E19BMR052	SUREKA ANANTHI M					
51	E19BMR053	SURESH M					
52	E19BMR054	SURUTHIKA A					
53	E19BMR055	SWETHA K					
54	E19BMR056	Vishali S					
55	E19BMR057	Yuvaraj K					
56	EI19BML301	Ajith s					
57	EI19BML303	Poovarasan.R					
58	EI19BML304	S.Ragul					
59	EI19BML305	Ruwan John Britto					

DR.R.GANESAN
HOD / BME

EGS PILLAY Engineering College
Autonomous
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Counselling Code : 3806
+91-4365 -251112/14 | principal@egspec.org/enquires@egspec.org

CERTIFICATE

This Certificate is presented to

SHARMILA.S - II BME

for participating in the Value Added Course on

"BIOPOTENTIAL MEASUREMENTS AND ELECTROPHYSIOLOGY AND 3-D PRINTING"

held on 03th to 07th May, 2021 conducted by

Department of Biomedical Engineering,

E.G.S. Pillay Engineering College

Dr.R.Ganesan
Professor & HOD/ Biomedical Engineering

Dr.S.Ramabalan
Principal

Dr. S. RAMABALAN, M.E., Ph.D.,
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This Certificate is presented to

RAGUL . S - II BME

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This Certificate is presented to

SANOFAR.N - II BME

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This Certificate is presented to

PRAKASH KUMAR. I – II BME

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NISHA. R - II BME

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This Certificate is presented to

YUVARAJ.K - II BME

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This Certificate is presented to

MONICA.R – II BME

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CHARUMATHY. R - II BME

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CERTIFICATE

This Certificate is presented to

HARSHIYA.M - II BME

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Principal

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E.G.S PILLAY ENGINEERING COLLEGE(Autonomous)

NAGAPATTINAM – 611 002

(Approved by AICTE,New Delhi and Affiliated to Anna University, Chennai)

(Accredited by NAAC with 'A' Grade and NBA)

DEPARTMENT OF CIVIL ENGINEERING

VALUE ADDED COURSE ON

STRUCTURAL ANALYSIS-STADD PRO

04-01-2021 TO 12-01-2021

SL.NO	CONTENTS
1	Vision, Mission, PEO, PSO and PO Statements
2	Approval Letters
3	Profile of the Visiting Faculty
4	Circulars
5	Syllabus/Portions Covered by the Faculty
6	Name List/Students Attendance
7	Session Materials
8	Fee back Forms
9	Feed Back Analysis Report
10	Assessment – Question Paper /Answer Key
11	Assessment Sample Answer Scripts
12	Mapping and Attainment Calculation
13	Action Plan based on Feedback and Attainment Calculation
14	Expenditure Details/Utilization Certificate

VISION OF THE INSTITUTION

Envisioned to transform our institution into a "GLOBAL CENTRE OF ACADEMIC EXCELLENCE"

MISSION OF THE INSTITUTION

1. To provide world class education to the students and to bring out their inherent talents
2. To establish state-of- the-art facilities and resources required to achieve excellence in teaching -learning, and supplementary processes
3. To recruit competent faculty and staff and to provide opportunity to upgrade their knowledge and skills
4. To have regular interaction with the Industries in the area of R&D, and offer consultancy, training and testing services
5. To establish centers of excellence in the emerging areas of research
6. To offer continuing education, and non-formal vocational education programmes that are beneficial to the society

VISION OF CIVIL DEPARTMENT

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.

MISSION OF CIVIL DEPARTMENT

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 lifelong learning attitude.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

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

PEO1: Preparing graduates to become as 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: Developing core competence by analyzing and design of Civil engineering systems with social awareness and responsibilities.

PEO3: Building professionalism, ethical approach, communication skills, team work in their profession and adapt to modern trends by engaging in lifelong learning.

PROGRAM 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 mechanism for sustainable and life-line infrastructures.

E.G.S PILLAY ENGINEERING COLLEGE, NAGAPATTINAM

Department of Civil Engineering

PROGRAM OUTCOMES

Engineering Graduates will be able to:

1. **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
2. **Problem analysis**: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
3. **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations
4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusion
5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations
6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
7. **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings
10. **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
11. **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments
12. **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change

26.12.2020

From

Dr.S.Anand Kumar Varma
Head of the department
Department of civil engineering
E.G.S.pillay engineering college
Nagapattinam.

To

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

Permitted
26/12/20

Respected Sir,

Sub: Requisition for Visiting Faculty– Reg.

We are planned to conduct Guest Lecture for our Pre final year students (2018-2022 Batch) for the course of Structural analysis and STADD PRO. The period of classes are scheduled from the date on 04.01.2021 to 12.01.2021We are going to call the Industrial Expert from CADD Centre ,Nagapattinam. . So, we request you to give the permission for this.

Thanking you,

Your'sFaithfully

Dr.S. Anand Kumar Varma, M.E., Ph.D.,
Professor & Head
Dept. of Civil Engineering
E.G.S. Pillay Engg. College
(Autonomous)
Nagapattinam - 611 002.
Tamilnadu

Date: 26.12.2021
Place: EGSPEC, Nagapattinam

E. G.S.PILLAY ENGINEERING COLLEGE

NAGAPATTINAM - 611 002.
(An ISO 9001:2008 Certified Institution)
(Approved by AICTE, New Delhi, Approved by Govt.of Tamil Nadu)
(Affiliated to Anna University Chennai)

26/12/2020

From,

Dr.S.Anand Kumar Varma
Head of the department
Department of civil engineering
E.G.S.pillay engineering college
Nagapattinam.

To

The trainer,
CADD Centre,
Nagapattinam

Dear Sir,

Sub: Requisition to depute "**Ms.P.Manimegalai,Design Engineer** "for **Visiting Faculty– Reg**

We are cordially inviting you to E.G.S. Pillay Engineering college, Nagapattinam as our visiting faculty for final year ivil Engineering Students in the month of January. I am writing to request the appointment of **Ms.P.Manimegalai** as a visiting faculty at our Institution from (04/01/2021 to 12.01.2021). We are impressed your academic accomplishment and achievements in the field of Structural Analysis and Design. Especially, we are interested in your expertise in the STADD used in the design work and current analysis and design Technology. Since confirm the appointment with in the specified time.

With our warmest regards,

Dr.S. Anand Kumar Varma, M.E., Ph.D.,
Professor & Head
Dept. of Civil Engineering
E.G.S. Pillay Engg. College
(Autonomous)
Nagapattinam - 611 002.
Tamilnadu

Date: 26/12/2020

Place: Nagapattinam

From

P.Manimegalai,
The trainer,
CADD Centre,
Nagapattinam.

To

Dr. S.Anand kumar varma,
Head of the department,
Department of Civil,
E.G.S. Pillay Engineering College,
Nagapattinam.

Dear Sir,

Sub: Acceptance of the Invitation for visiting faculty

I am writing to express my interest in the position of Adjunct faculty for Structural Analysis-STADD PRO in Department of Civil Engineering. I offer a unique combination of undergraduate and graduates level teaching in both traditional and online settings. I believe this combination of professional and academic experience ensures I am an excellent fit for this position.

I would enjoy discussing the Adjunct Professor position with you in the weeks to come. In the mean time , I am enclosing my curriculum vitae,;etters of recommendations and references will arrive under separate cover. If you require any additional materials or information. We would be happy to supply it .Also kindly arrange your computer Laboratory with necessary software installations. Thank you for your consideration.

Your's Faithfully

(P.Manimegalai)

P. Manimegalai
27/12/2020

Date: 27/12/2020
Place: Nagapattinam

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

NAGAPATTINAM – 611 002

DEPARTMENT OF CIVIL ENGINEERING

28/12/2020

Circular

Attention to Third Year Students

We are happy to inform you that, our college gives wonderful opportunity to gain knowledge about Structural Analysis-STADD PRO course through classes handled by visiting faculty, Here with the visiting faculty class details are enclosed and inform you that all the Third year students are asked to attend these classes without fail.

SL NO	COURSE HANDELED	RESOURCE PERSON	TIME	DATE
1	Structural Analysis STADD PRO	P.MANIMAHALAI CADD CENTRE NAGAPATTINAM	9.00AM to 4.30 PM	04-01-2021 TO 12-01-2021

HoD/Civil

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Tamilnadu

SCHEDULE

	INDETERMINANCY
04/01/2021	Determination of static and kinematic indeterminacies of two dimensional and three-dimensional portal frames, pin jointed trusses and hybrid frames coordinate systems – structural idealization
	ANALYIS OF BEAMS
05/01/2021	Stiffness method and flexibility method of analysis –continuous beams of two and three spans with different end conditions-internal hinges
	MATRIX METHOD OF ANALYSIS –STADD PRO
06/01/21 To 07/01/2021	Flexibility and stiffness matrices-Force displacement relationships for axial force, couple, torsional moments– stiffness method of analysis and flexibility method of analysis.
	ANALYSIS OF TWO DIMENSIONAL PORTAL FRAMES AND PINJOINTED TRUSSES – STADD PRO
08/01/2021 &11/01/21	Stiffness and flexibility method of analysis of 2D portal frames and pin jointed trusses with different end conditions-plotting of bending moment diagrams
	STADD PRO
12/01/2021	Practice Problems-Test-

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Tamilnadu

EGS Pillay Engineering College (Autonomous)
Department of Civil Engineering
Third Year Name List

S.No	Reg.No	Name	S.No	Reg.No	Name
1	E18CER001	AAKASH S	24	E18CER026	MOHAMED FAHAD F
2	E18CER002	ABI S	25	E18CER027	MOHAMED THASLEEM T
3	E18CER003	ABU FIRNAZH F	26	E18CER028	MUGESH M
4	E18CER004	AKASH R	27	E18CER029	MUNISWARAN V
5	E18CER005	ALEX PANDIYAN S	28	E18CER031	NITHIYA S
6	E18CER007	AMRISH J	29	E18CER032	NIVAS M
7	E18CER008	ANBUKUMAR M	30	E18CER033	PRASANTH V
8	E18CER009	ARIPRASATH G	31	E18CER034	PRIYADHARSHINE S
9	E18CER010	ARTHI M	32	E18CER035	PUSHPARAJ A
10	E18CER011	BALASUNDHARI R	33	E18CER036	SABARI NATHAN C
11	E18CER012	BAVADHARANI S P	34	E18CER037	SHAHIL MOHAMED M
12	E18CER013	DEVASRI C	35	E18CER038	SIVASANKARI R
13	E18CER015	HARIHARAN E	36	E18CER039	SRINITHI M
14	E18CER014	GUNAL T	37	E18CER040	SUBASH S
15	E18CER016	HARIHARAN K	38	E18CER041	SUBITTAVARSHINI S
16	E18CER018	JEGAN J	39	E18CER042	SURIYA M
17	E18CER019	KARTHIKEYAN A	40	E18CER043	TAMILPRIYAN S
18	E18CER020	KEERTHANA S	41	E18CER044	TAMIL VENDHAN D
19	E18CER021	KISHOOREKUMAR B	42	E18CER045	VAIRAMUTHU T
20	E18CER022	KOWSALYA S	43	E18CER046	VASANTH N
21	E18CER023	KRITHIK BOTHRA R	44	E18CER047	VENKATESHWARAN J
22	E18CER024	MANJU G	45	E18CER048	VIGNESH G
23	E18CER025	MOHAMED ABDUL BASITH M	46	E18CER049	VIMALKUMAR S

47	E18CER050	VINOTH S	71	E18CEL323	PARAMESHWARAN .P
48	E18CER051	YOGESWARAN K	72	E18CEL324	PRATHAP.V
49	E18CEL301	ARSATH AHAMED MALIMAR.I	73	E18CEL325	SAJID AHMAD KHAN
50	E18CEL302	ASATH R	74	E18CEL326	SANJAI KUMAR K
51	E18CEL303	BALAGURU B	75	E18CEL327	SARAN S
52	E18CEL304	BALAJI P	76	E18CEL328	SARVESHKUMAR D
53	E18CEL305	BALAJI M	77	E18CEL329	SELVAGANAPATHY .R
54	E18CEL306	DHARUN T	78	E18CEL330	SENTHUR PANDIYAN T
55	E18CEL307	DHINAKARAN .T	79	E18CEL331	SUDHARSAN.S
56	E18CEL308	GOWRISANKAR P	80	E18CEL332	SUNDAR .S
57	E18CEL309	HAMEEDUL ASHIQUEN SAHIB S	81	E18CEL333	VARATHARAJAN R
58	E18CEL310	HARSHAVARDHAN T	82	E18CEL334	VASANTHAKUMAR T
59	E18CEL311	IYYAPPAN K	83	E18CEL335	VIGNESH K
60	E18CEL312	JASIF JAVAID	84	E18CEL336	YOGESH.B
61	E18CEL313	JOTHISH .S			
62	E18CEL314	KALAIMANNAN K			
63	E18CEL315	KARTHIKEYAN T			
64	E18CEL316	MANOBALA M			
65	E18CEL317	MOHAMED AJMAL I			
66	E18CEL318	MOHAMED ARAFAT M			
67	E18CEL319	MOHAMED FAHEEM H			
68	E18CEL320	MUHAMMAD NOUFAL MASTHAN.A			
69	E18CEL321	MURUGANANTHAM M			
70	E18CEL322	NITHESH N			

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Tamilnadu

S.No	Reg.No	Name	04/01 (8HRS)		05/01 (8HRS)		06/01 (8HRS)		07/01 (8HRS)		08/01 (8HRS)		11/01 (8HRS)		12/01 (4HRS)	TOTAL NUMBER OF HOURS ATTENDED
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	
1	E18CER001	AAKASH S	P	P	P	P	P	P	P	P	A	A	P	P	P	39
2	E18CER002	ABI S	P	P	P	P	P	P	P	P	P	P	P	P	P	47
3	E18CER003	ABU FIRNAZH F	P	P	P	P	P	P	P	P	P	P	P	P	P	47
4	E18CER004	AKASH R	P	P	P	P	P	P	P	P	P	A	A	P	P	39
5	E18CER005	ALEX PANDIYAN S	P	P	P	P	P	P	A	P	A	A	P	P	P	35
6	E18CER007	AMRISH J	P	P	A	A	P	P	P	P	P	P	P	P	P	39
7	E18CER008	ANBUKUMAR M	P	P	P	P	P	P	P	P	P	A	A	P	P	39
8	E18CER009	ARIPRASATH G	P	P	P	P	P	P	A	P	P	P	P	P	P	43
9	E18CER010	ARTHI M	P	P	P	P	P	P	P	P	A	P	P	P	P	43
10	E18CER011	BALASUNDHARI R	P	P	P	P	P	P	P	P	P	P	A	A	P	39
11	E18CER012	BAVADHARANI S P	P	P	P	P	P	P	P	P	P	P	P	P	P	47
12	E18CER013	DEVASRI C	P	P	P	P	P	P	P	A	P	P	P	P	P	43
13	E18CER015	HARIHARAN E	P	P	P	P	P	P	P	P	P	P	P	A	P	43
14	E18CER014	GUNAL T	P	P	P	P	P	P	P	A	A	A	A	P	P	31

15	E18CER016	HARIHARAN K	P	P	P	P	P	P	P	A	P	P	P	P	P	43
16	E18CER018	JEGAN J	P	P	P	P	P	P	P	A	A	P	P	P	P	39
17	E18CER019	KARTHIKEYAN A	P	P	P	P	P	P	P	P	P	P	P	P	P	47
18	E18CER020	KEERTHANA S	P	P	P	P	P	P	P	P	P	P	A	P	P	43
19	E18CER021	KISHOOREKUMAR B	P	P	P	P	P	P	P	P	P	P	P	A	P	43
20	E18CER022	KOWSALYA S	P	P	P	P	A	A	P	P	P	P	P	P	P	39
21	E18CER023	KRITHIK BOTHRA R	A	A	P	P	P	P	P	P	P	P	P	P	P	43
22	E18CER024	MANJU G	P	P	P	P	P	P	P	A	A	P	P	P	P	39
23	E18CER025	MOHAMED ABDUL BASITH M	P	P	P	P	P	A	A	P	P	P	P	P	P	39
24	E18CER026	MOHAMED FAHAD F	P	P	P	P	P	P	P	A	A	P	P	P	P	39
25	E18CER027	MOHAMED THASLEEM T	P	P	P	P	P	P	P	A	P	P	P	P	P	43
26	E18CER028	MUGESH M	P	P	P	P	P	P	P	P	P	P	P	A	P	43
27	E18CER029	MUNISWARAN V	P	P	P	P	P	P	P	P	P	P	P	P	P	47
28	E18CER031	NITHIYA S	P	P	P	P	P	P	P	A	P	P	P	P	P	43
29	E18CER032	NIVAS M	P	P	P	P	P	P	P	P	P	A	A	P	P	39
30	E18CER033	PRASANTH V	P	P	P	P	P	P	P	P	P	P	P	P	P	47

31	E18CER034	PRIYADHARSHINE S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	47
32	E18CER035	PUSHPARAJ A	P	P	P	P	A	P	P	P	P	P	P	P	P	P	43
33	E18CER036	SABARI NATHAN C	P	P	P	P	P	P	P	P	P	P	P	A	P	P	43
34	E18CER037	SHAHIL MOHAMED M	P	P	P	P	P	P	P	A	P	P	P	P	P	P	43
35	E18CER038	SIVASANKARI R	P	P	P	P	P	P	P	P	P	P	P	A	P	P	43
36	E18CER039	SRINITHI M	P	P	A	A	P	P	P	P	P	P	P	P	P	P	39
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45	E18CER048	VIGNESH G	P	P	P	P	P	P	P	P	P	P	A	P	P	P	43
46	E18CER049	VIMALKUMAR S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	47

47	E18CER050	VINOTH S	P	P	P	P	P	P	A	A	A	A	A	P	P	27
48	E18CER051	YOGESWARAN K	P	P	P	P	A	P	P	P	P	P	P	P	P	43
49	E18CEL301	ARSATH AHAMED MALIMAR.J	P	P	P	P	P	A	P	P	P	P	P	P	P	43
50	E18CEL302	ASATH R	A	A	P	P	P	P	P	P	P	P	P	P	P	43
51	E18CEL303	BALAGURU B	A	A	P	P	P	P	P	P	P	P	P	P	P	43
52	E18CEL304	BALAJI P	P	P	P	P	A	P	P	P	P	P	P	P	P	43
53	E18CEL305	BALAJI M	P	P	P	P	P	P	P	P	P	P	A	P	P	43
54	E18CEL306	DHARUN T	P	P	P	P	A	P	P	P	P	P	P	P	P	43
55	E18CEL307	DHINAKARAN .T	P	P	P	P	A	P	P	P	P	P	P	P	P	43
56	E18CEL308	GOWRISANKAR P	P	A	A	P	P	P	P	P	P	A	A	P	P	31
57	E18CEL309	HAMEEDUL ASHIQUEN SAHIB S	P	P	P	P	A	P	P	P	P	P	P	P	P	43
58	E18CEL310	HARSHAVARDHAN T	P	P	P	P	A	P	P	P	P	P	P	P	P	43
59	E18CEL311	IYYAPPAN K	P	P	P	P	A	P	P	P	P	P	P	P	P	43
60	E18CEL312	JASIF JAVAID	P	P	P	P	A	P	P	P	P	P	P	P	P	43
61	E18CEL313	JOTHISH .S	P	P	P	P	A	P	P	P	P	P	P	P	P	43
62	E18CEL314	KALAIMANNAN K	P	P	P	P	P	P	A	P	P	P	P	P	P	43

63	E18CEL315	KARTHIKEYAN T	P	P	P	P	P	P	P	P	P	A	A	P	P	39
64	E18CEL316	MANOBALA M	A	A	P	P	P	P	P	P	P	A	A	P	P	35
65	E18CEL317	MOHAMED AJMAL I	P	P	P	P	P	P	A	P	P	P	P	P	P	43
66	E18CEL318	MOHAMED ARAFAT M	P	P	P	P	P	P	A	P	P	P	P	P	P	43
67	E18CEL319	MOHAMED FAHEEM H	P	P	P	P	P	P	A	P	P	P	P	P	P	43
68	E18CEL320	MUHAMMAD NOUFAL MASTHAN.A	P	P	P	P	P	P	A	P	P	P	P	P	P	43
69	E18CEL321	MURUGANANTHAM M	P	P	P	P	P	P	A	P	P	P	P	P	P	43
70	E18CEL322	NITHESH N	P	P	P	P	P	P	P	P	A	A	P	P	P	39
71	E18CEL323	PARAMESHWARAN .P	P	P	A	A	P	P	P	P	P	P	P	P	P	39
72	E18CEL324	PRATHAP.V	P	P	P	P	P	P	A	P	P	P	P	P	P	43
73	E18CEL325	SAJID AHMAD KHAN	P	P	P	P	P	P	A	P	P	P	P	P	P	43
74	E18CEL326	SANJAI KUMAR K	P	P	P	P	P	P	P	P	P	A	A	P	P	39
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76	E18CEL328	SARVESHKUMAR D	P	P	P	P	P	P	A	P	P	P	P	P	P	43

77	E18CEL329	SELVAGANAPATHY .R	P	P	P	P	P	P	A	P	P	P	P	P	P	43
78	E18CEL330	SENTHUR PANDIYAN T	P	P	P	P	P	P	P	P	P	P	P	P	P	47
79	E18CEL331	SUDHARSAN.S	P	P	P	P	P	P	P	P	P	P	P	P	P	47
80	E18CEL332	SUNDAR .S	P	P	P	P	P	P	P	P	A	A	A	A	P	31
81	E18CEL333	VARATHARAJAN R	P	P	P	P	P	P	P	P	A	A	A	A	P	31
82	E18CEL334	VASANTHAKUMAR T	P	P	P	P	P	P	P	A	P	P	P	P	P	43
83	E18CEL335	VIGNESH K	P	P	P	P	P	A	A	P	P	P	P	P	P	39
84	E18CEL336	YOGESH.B	P	P	P	P	P	A	A	P	P	P	P	P	P	39

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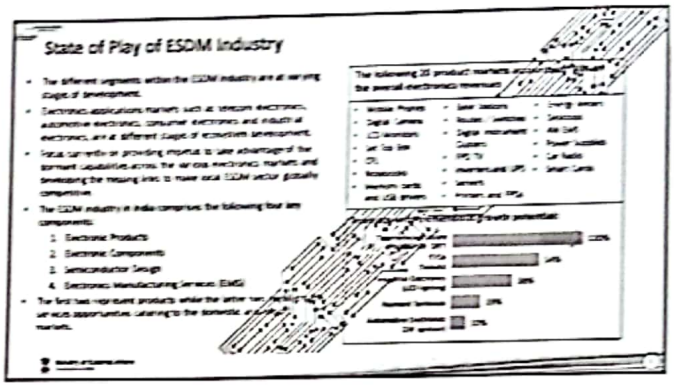
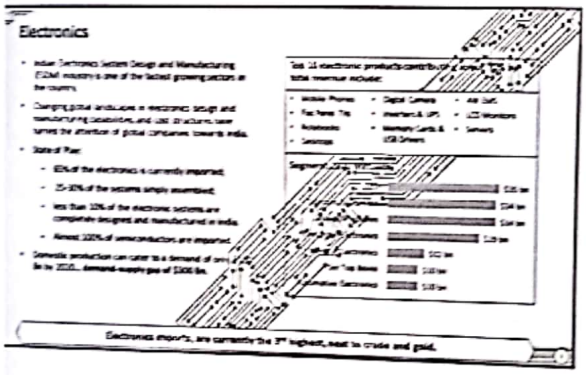
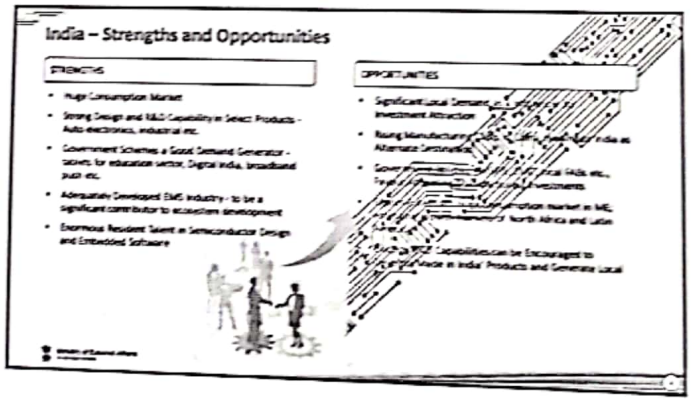
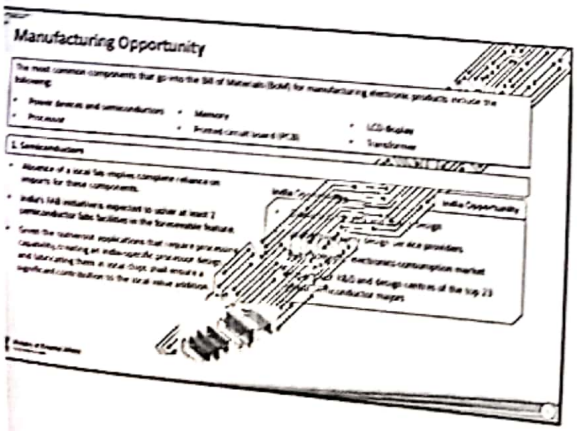
Analysis of beams and frames using STAADPRO

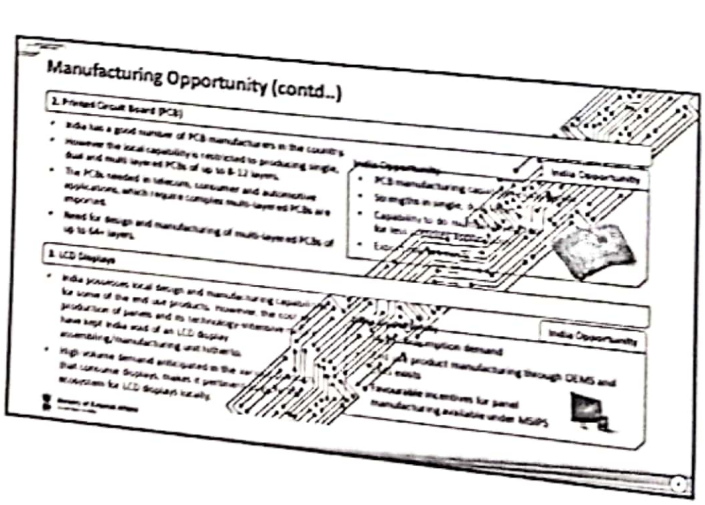
By
P.Manimegalai,
The trainer,
CADD Centre,
Nagapattinam.











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Manufacturing Opportunity (contd..)

4. Transformers:

- Consumer and industrial electronics segments drive the demand for transformers.
- Market is dominated by small scale indigenous manufacturers.
- Reliance on import for raw materials, specifically copper.

India Opportunity:

- Preferential excise duty ... manufacturing, tax rebate ...
- Subsidies on logistic ... to reduce product ...
- Special ... for SME

Products seeing the fastest growth

1. Set Top Box (STB):

Demand Drivers: Cable TV Networks (CTN) Amendment Bill 2011 mandates digitization of TV broadcasts pan India by 2014 & introduction of HD channels and smart TVs.

Technology: Hybrid STBs integrating video content from multiple signal sources ... TV, premium VoD and internet-based ... and providing value-added capabilities like time shifting ... distributing content to a variety of viewing devices ... room TV networks, personal computers, portable ... other mobile devices.

2. Medical Electronics:

... growing middle-class, rising incomes, ... lifestyle diseases, and awareness about benefits ... system. Moreover, India's healthcare ... nearly 4% of the GDP.

Technology for India: Development of miniaturized, multifunctional, ... power, portable, and reduced cost devices for patient monitoring, imaging, insertable, therapeutic, and surgical requirements. Wearable devices to aid physicians offer extended care outside the clinical environment.

Products seeing the fastest growth (Contd..)

3. Auto electronics:

- Auto Electronics industry...currently at a nascent stage
- Lagging behind its foreign counterparts in terms of capacity and R&D capability
- Product conceptualization and designing of electronic components is typically undertaken by OEMs... the imported parts.

Potential:

- Cost of Auto Electronics content as % of total automobile cost in India is expected to double from 22% to 45% over the period 2015-2030 as per McKinsey ACMA Report 2015
- High-end car models feature more auto electronics with larger and more complex electrical systems.
- Electronic accessories in demand: Satellite navigation systems, remote security systems, ADAS, traffic control systems etc.
- India has close to 20 million passenger vehicles on the road. More and more consumers are looking for electronic features in their cars (parking cameras, tyre pressure warning systems, parking sensors etc.

Investments in Auto Electronics:

- Companies exploring ... Mahindra Sumi ... Magneti Marelli, ... Continental Auto...
- Established ... and Denso ... in India ...

Target:

- ... and information ... set an aggressive target of ... market size in Auto ... which is 3x the current

Policy Initiatives

- The Indian Government has instituted a ... forward-looking policies to foster the growth of the ... electronics ecosystem.
- Policies aimed at holistic development of the ESDM industry by offering ... for the development of each ... of the value chain. These forward-looking ... include:
  - ✓ ...
  - ✓ ...
  - ✓ ...
  - ✓ ... Market Access
  - ✓ ... Development Fund
  - ✓ ... Scheme
  - ✓ Export Incentives

National Policy on Electronics

- Achieve a turnover of $400Bn by 2020 by investing $100Bn and providing employment to around 28Mn.
- Build a supply chain of raw materials, parts & electronic components and raise local production from ... over 60%.
- Develop & Mandate standards for electronic products.
- Increase fund flow for R&D, seed & venture capital for start-ups in ESDM & nano-electronics.
- Setting up of over 200 Electronic Manufacturing Clusters (EMCs).
- Enhance skill availability: 2500 PhDs annually by 2020.

Electronic Hardware Technology Park

- For encouraging exports of electronic hardware items
  - ✓ Duty free import of inputs as required by it for manufacture ... and processing.
  - ✓ 100% FDI, excise duty free on indigenous goods.
  - ✓ Sales are deemed exports and will get benefits ... Policy.
- Export profits 100% tax exempt
- DTA sales permissible up to 50% of FOB value of exports ... fulfilment of positive NFE(Net Foreign Exchange)
- This scheme is a part of India's Foreign ...

MSIP Scheme

Modified Special Incentive Package Scheme (MSIPS) - 2015:

- Promotes investments in the Electronic System Design & Manufacturing (ESDM) sector
- To avail scheme, application to be sent to Dept. of Electronics & IT.

Financial Incentives include:

- Subsidy of 25% on Capex if the ESDM unit is in non-SEZ.
- Subsidy of 20% on capex if within SEZ.
- Capex subsidy available for investments made within 10 years from date ...
- 200% deduction on R&D for setting up electronic chip manufacturing ...
- Reimbursement of CVD/excise on capital equipment for non SEZ ...
- Reimbursement of central taxes and duties (like custom ... service tax) for 10 years in select high- tech units like ... and Memory chips, LCD fabrication.
- Refund of capex for new units or for expansion of ... existing capacity in a DeitY Notified Greenfield or Brownfield Electronics ... cluster for production of products across ESDM value chain.

MSIP: Manufacturing List - 2015

ELECTRONIC PRODUCTS

- Telecom products: Optical fibers and optical fiber cables, headends.
- IT Hardware products : Automatic Teller Machines(ATMS).
- Consumer Electronics: Audio Video Products, Electronic Watches and Clocks, electronic toys, wearable electronics, electronic personal care products.
- Automotive Electronics: Brushed DC Motors, etc.
- Bio-metric and identity devices/RFID: Smart Card manufacturing and personalization ...
- Consumer Appliances like Refrigerators, ACs, Fully Automatic Washing Machines, Microwaves Oven, etc.
- Machine to Machine (M2M) and Internet of Things (IoT).
- Home Fuel Cells.
- Multi-functional electronic devices
- Semiconductor Equipment such as Automatic Test ... Machines, Test Head Manipulator and their accessories like Test ... Boards, Conversion Kits, Docking Mechanisms
- Electronics security devices: including CCTV ... Access control, intruder alarms, etc.
- Electronic product design including PCB ...

MSIP: Manufacturing Vertical...2

INTERMEDIATES
- Electroplating, small precision plastic and metal parts, tools, molds & dies
- Liquid Crystal Module (LCM)
- Organic Light Emitting Diodes (OLED)
- Chip Modules for Smart Cards
- Analog/Mixed Signal Semiconductors Chips

RAW MATERIALS EXCLUSIVELY FOR ELECTRONIC PRODUCTS

CAPITAL EQUIPMENT FOR ELECTRONIC PRODUCTS

REMANUFACTURING OF ELECTRONIC PRODUCTS

Semiconductor Policy

- 25% subsidy on capital expenditure and growth capital expenditure.
- Reimbursement of CVD and excise duty.
- Exemption from basic customs duties and 200 per cent deduction on R&D activities.
- Other incentives such as reimbursement of training costs, deduction for income tax and various forms of viability gap funding.

- 2 units approved, in Gujarat and Noida investment of over 60,000cr by two consortiums
  - ✓ Jaiprakash Associates Ltd, IBM and Israel-based TowerJazz, Rs.29,000 crore unit in Greater Noida
  - ✓ Hindustan Semiconductor Manufacturing Corp. French-Italian STMicroelectronics NV and Malaysia-based Silterra, Rs.34,000-crore facility in Prantij, near Gandhinagar
- Analog Semiconductor Fabrication (FAB) Investment Policy 2015, Madhya Pradesh

Semiconductor Design Market

State of Play:
- Almost all semiconductor MNCs have significant amount of design activity from India.
- Multiple design houses are also either doing full chips or supporting the design activity of the MNCs.
- Nearly 2,000 chips are being designed every year in India and more than 20,000 engineers are working on various aspects of chip design.
- More than 120 companies in India are focused on semiconductor design for global products. This design industry has witnessed a robust growth of 17.3 per cent since 2009 and today contributes [illegible] 10% share of the global pie.

By 2020, semiconductor design market in India is expected to increase by a CAGR of 29.4% to US$ 52.6 billion.

India, today consumes over $10 billion of semiconductor products every year.

EMC

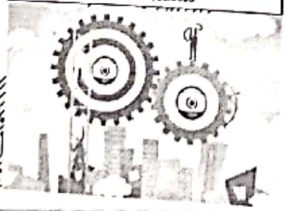
- Electronics Manufacturing Clusters (EMC) scheme aims to make India a global player in the field of Electronics Manufacturing by providing world-class infrastructure for attracting investments in the Electronics Systems Design and Manufacturing (ESDM) Sector
- Scheme provides grant assistance for setting up of both Greenfield and Brownfield EMCs across the country.
- Financial assistance under the scheme is in the form of grant-in-aid only.
- The Scheme was notified vide notification no. 252 dated 22nd October, 2012 and is open for 5 years for receiving applications from the date of notification.

Setting up Electronic Manufacturing Clusters:
- Greenfield EMCs, 50% of the project cost will be provided, subject to a ceiling of Rs. 50 crore for every 100 acres of land.
  - Greenfield projects approved:
    - ✓ In-principle approval: 2 each in West Bengal, Uttar Pradesh, Telangana, Tamil Nadu, Gujarat and Andhra Pradesh and 1 each in Bihar, Chhattisgarh, Kerala, Odisha and Rajasthan.
    - ✓ Final approval: 2 in Madhya Pradesh, 1 in Rajasthan and 1 in Jharkhand
- Brownfield EMCs, 75% of the project cost will be provided, subject to a ceiling of Rs. 50 crore.
  - Brownfield projects approved:
    - ✓ In-principle approval for 2 in Karnataka and 2 in Maharashtra

Information Technology Investment Regions (ITIRs)

- Information Technology Investment Regions (ITIRs) are self contained integrated townships to accelerate growth of IT / ITeS / Electronic & Hardware Manufacturing industry (EHM).
- As per the policy, minimum area of 40 sqkm should be delineated for ITIR.
- Out of the total delineated area, 40% should be earmarked for processing zone and remaining area for non-processing zone.
- Processing zone would comprise of IT / ITeS and EHM Units, along with associated logistics and other services and required infrastructure.

- Non-processing area, to include residential, commercial and other social and institutional infrastructure.
- As on today, Department of Electronics & Information Technology, Govt. of India had notified setting up of ITIRs near Bengaluru and Hyderabad



Preferential Market Access (PMA)

- Preference for domestically manufactured electronic goods in Govt. procurement
- Procurement will not be less than 30 % of the total procurement.
- WTO compatible & no discrimination between foreign & Indian companies in procurement.

Notified List (2015)

1. Notebooks & Netbooks
2. Tablets
3. Desktops
4. Servers
5. Printers
6. Keyboards
7. Monitors
8. Storage USBs, Memory Cards
9. CCTVs, Surveillance Cameras
10. ATMs
11. Photocopiers
12. Scanners
13. Faxes
14. Smart Cards
15. [illegible]

Directorate General of Supplies and Disposals (DGS&D) and National Informatics Center Services Inc. (NICSI) have been designated as the nodal agency for providing preference to domestically manufactured electronic goods in all government procurements.

Guidelines for PMA, as well notified items under Telecom (number 24) can be accessed from: http://deity.gov.in/sites/upload_files/dit/files/N_G_U_16_11_2015.pdf

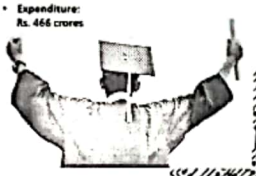
Electronics Development Fund

- EDF will help create ecosystem for electronics R&D
- Set up as a "Fund of Funds" to participate in "Daughter Funds" which in turn will provide risk capital to companies developing new technologies in the area of electronics, nano-electronics and Information Technology (IT).
- The EDF would take minority participation in Seed Funds, Angel Funds and Venture Funds dedicated in this area.
- Recently operationalized – 2015 as a part of Digital India Programme with the objective of net zero imports.

- The policy will be available for approval of new Daughter funds up to 31.3.2017.
- They will also support acquisition of foreign companies and technologies for products imported in India in large volume

PhD Scheme for Electronics & IT

- **Objective:** Enhance number of PhDs in Electronics System Design and Manufacturing (ESDM) and IT/IT Enabled Services (IT/ITES) sectors in the country.
- **Launch:** 2014 effective for 9 years.
- **Expenditure:** Rs. 466 crores



Salient features of PhD Scheme:

- Thrust to R&D, create an innovative ecosystem and enhance India's competitiveness in these knowledge intensive sectors.
- Support 3000 PhD Candidates – 1500 each in ESDM and IT/ITES sectors respectively - both Full-Time (500) and Part-Time (1000) .
- Support 200 Young Faculty Research Fellowships in the areas of ESDM and IT/ITES - objective to retain and attract bright young faculty members in these sectors.
- The scheme is also expected to encourage working professionals and non-PhD faculty members to pursue PhD.

Export Incentives

- Peak rate of Basic Customs Duty (BCD) is 10%.
- BCD on 217 tariff lines covered under the Information Technology Agreement (ITA) of WTO is 0%.
- BCD on specified raw materials / inputs used for manufacture of electronic components and optical fibres and cables is 0%.
- BCD on specified capital goods used for manufacture of electronic goods is 0%.
- Goods required in the manufacture of ITA items exempted from BCD.
- Special Additional duty of Customs (SAD) has been reduced from 4% to Zero for all goods except [illegible] PCBs, falling under any Chapter of the Customs [illegible] use in manufacture of ITA bound goods [illegible] Notification No. 11/2015-Customs dated [illegible]

- Focus Product Scheme (FPS) – Duty Credit 2% of FOB.
- Special Focus Product Scheme (SFPS) – Duty Credit 5% of FOB.
- Focus Market Scheme (FMS): To offset high freight cost and other externalities to select markets – Duty Credit of 3% of FOB.
- Special Focus Market Scheme (SFMS): Exports to 41 countries would be incentivized - **Additional 1% duty credit over and above the duty credit granted under FMS.**
- Apart from the above, each State in India offers additional incentives. Some States have separate policies for electronics.

Export Incentives

Mobile Handsets

- Parts, components and accessories for the manufacture of mobile handsets; sub-parts for the manufacture of such parts and components are exempted from BCD and Excise Duty.
- Differential Excise Duty dispensation is available to Mobile Handsets i.e. Countervailing Duty (CVD) @12.5% and Excise Duty @1% without CENVAT credit or 12.5% with CENVAT credit.

Medical Electronic Products

- Excise Duty / CVD and SAD [illegible] specified raw materials [illegible] manufacture of Pace[illegible]
- BCD on certain [illegible] in the manufacture of [illegible] Endoscopes has [illegible] from 5% to 2.5%.
- [illegible] with 6% CVD and Nil SAD [illegible] Blood Pressure Monitors and Blood [illegible] monitoring systems (Glucometers) on [illegible] basis.

Export Incentives

Manufacturing of TVs

- Basic Customs Duty (BCD) has been reduced to 0% on the following:
  - LCD, LED or OLED TV Panels; Colour Picture Tube.
  - Specified parts of LCD and LED TV Panels (including open cell, plate diffuser, film diffuser, back light unit module).

Set Top Boxes (STB)

- BCD on imports of STBs increased to 10%.
- The domestic STB manufacturers had to pay CST equivalent to VAT rate (typically 12.5%). This has been resolved by extending the facility of Form 'C' [illegible] C.M of Departm[illegible] Revenue dated [illegible] 2014.

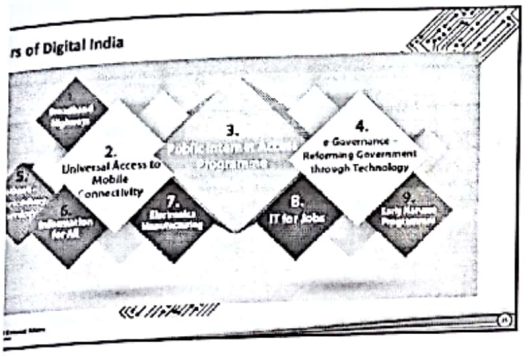
Tablet Computers

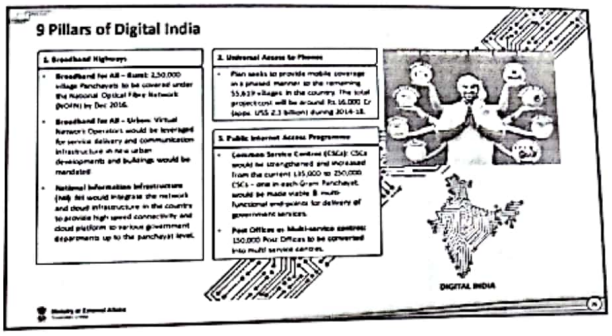
- Parts, [illegible] accessories [illegible] manufacture of Tablet Computers and sub-parts [illegible] manufacture of Tablet Computers are exempted from CVD and Special Additional Duty of Customs (SAD).
- Differential Excise Duty dispensation is available to Tablet Computers i.e. CVD @12.5% and Excise Duty @2% without CENVAT credit or 12.5% with CENVAT credit.

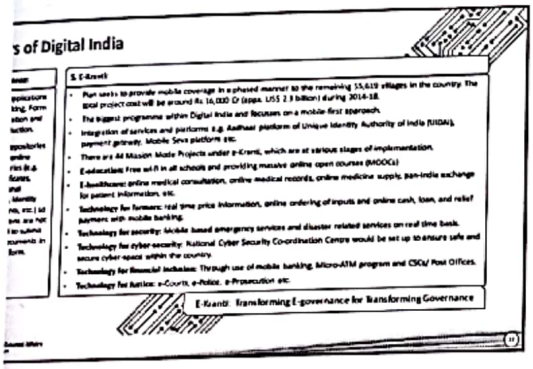
What is Digital India?

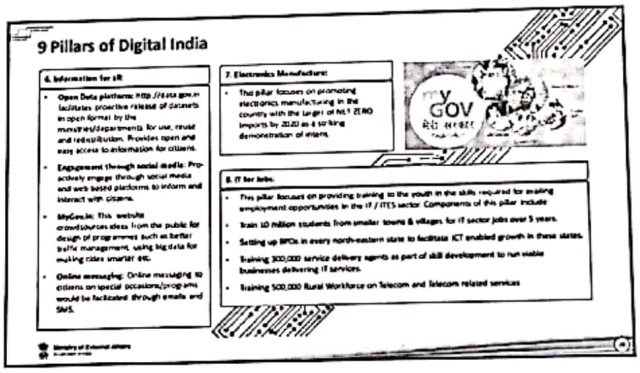
- Digital Infrastructure as a Core Utility for Every Citizen
- Governance and Services on Demand
- Digital Empowerment of Citizens

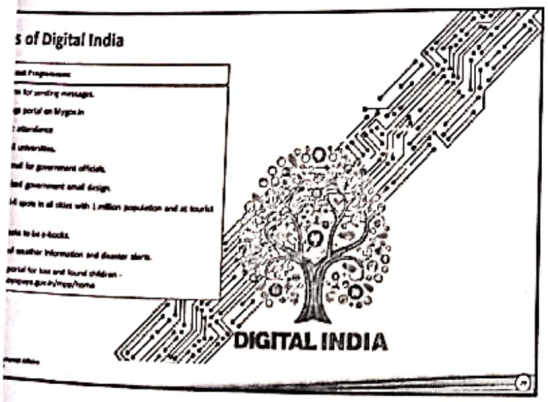
- To make India ready for a knowledge-based future.
- Focus of the Rs 1.13 lakh crore (appx. US$ 17 billion) initiative [illegible] technology to create a participative, transparent and [illegible]
  - Providing high-speed internet, mobile phone and bank account enabling participation in digital & financial space; shareable private space on a public cloud, and creating a safe and secure cyber space.
  - Seamless integration across departments/jurisdictions
  - Ensuring availability of services in real time from online and mobile platforms for ease of doing business, leveraging geographical information systems (GIS) etc.
  - Take digital literacy to the next level
  - Providing digital resources in Indian languages, citizens not required to submit physical documents, etc.

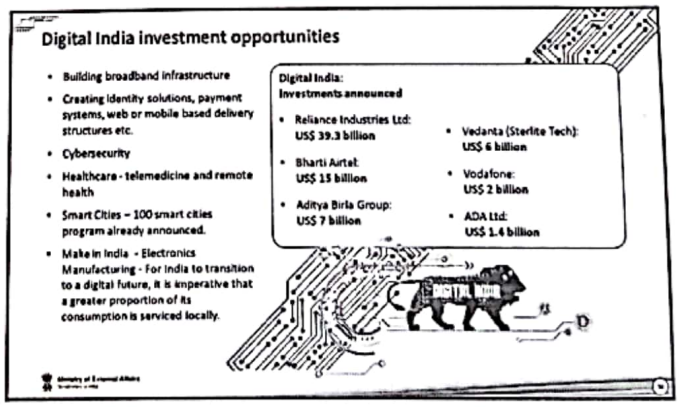












CADD MASTRE™

Develop Skills to Success

About Us

CADD MASTRE is a Central India's leading CAD/CAM/CAE/CFD/PPM Training Company, committed to building a skilled manpower pool for Regional & global industry requirements. The company which was set up in 2007, to help the Manufacturing & Construction industry overcome its human resource challenges, offering learning solutions to individuals, Enterprises and Engineering and Polytechnic Institutions in India.

CADD MASTRE™ Offering services for Mechanical, Civil, Electrical, Architecture and Interior streams for Training, Projects & Placements. CADD MASTRE's expertise in learning, content development, training delivery and education process management make it the most preferred training partner.

VISION

To achieve and sustain academic excellence by developing world-class systems, courseware and procedures.

MISSION

To enable students to be zealous professionals through innovative and futuristic approach towards the teaching and learning process.

To develop world class professionals completely equipped to make a positive impact in the global industrial scenario

Our Services

- CAD/CAM /CAE/ CFD/PPM Corporate & Institutional Training
- Drawing Digitization /Conversion
- 2D to 3D Conversion
- Manpower Consultancy
- Project Consultancy (CAD/CAE/CFD)
- Software sales

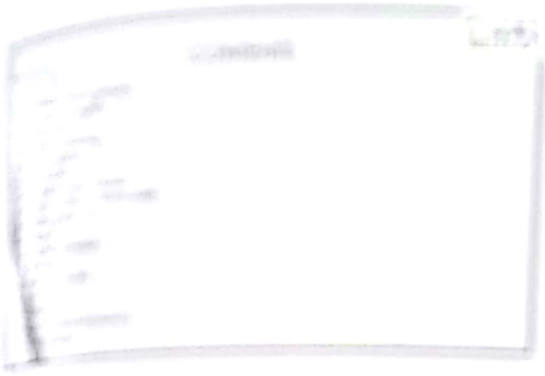
GstarCAD

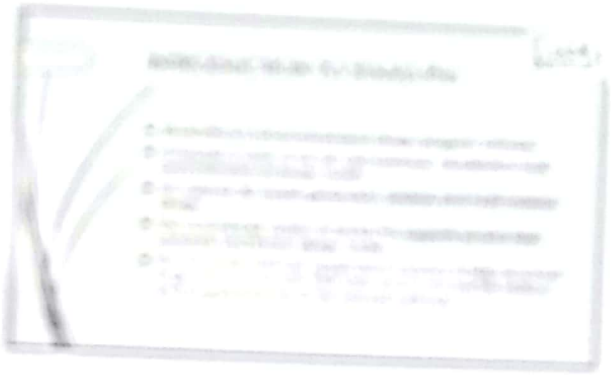
Authorised Regional Distributor

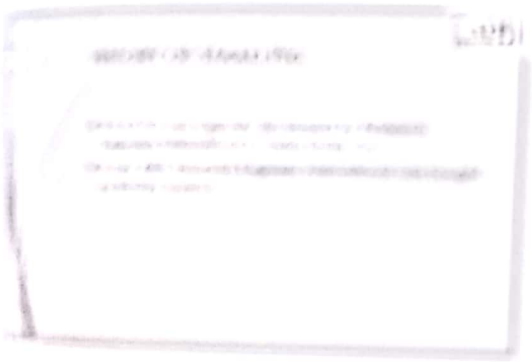
Why CADD Mastre ?

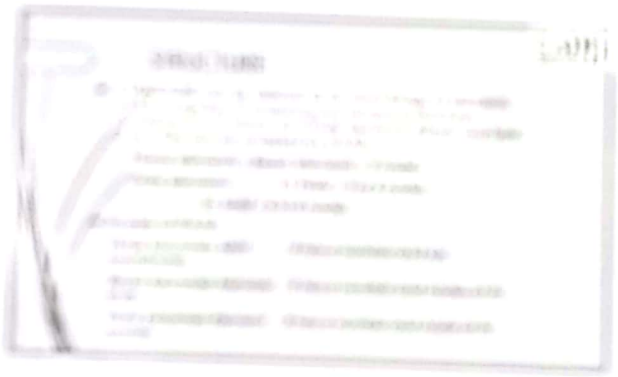
- ADD Mastre "Brings Out the Best in You"
- Gaining India's Quality Education provider in CAD/CAE/PPM
- Partnering with world leaders in CAD and CAE industries
- Professionally trained, Expert and Experience Facilitator
- 100% Placement Assistance
- Authorized Certification
- Effective and Simple Courseware
- Focus on creating Pune Design Engineer
- Emphasis on Practical Training Approach

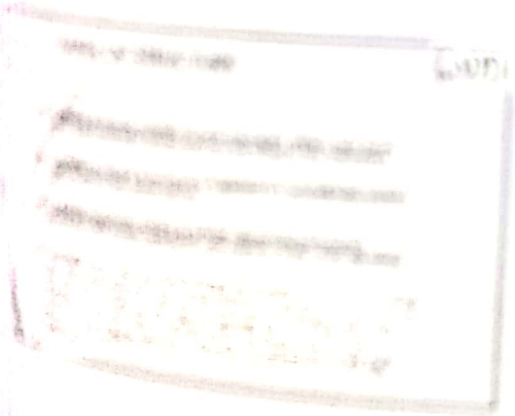
STAAD.PRO

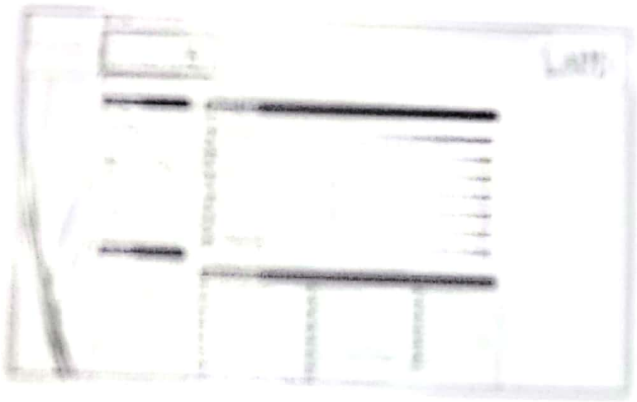


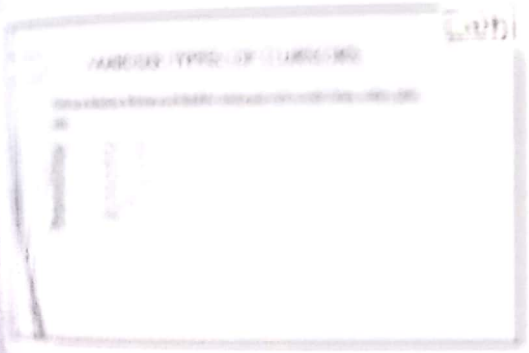




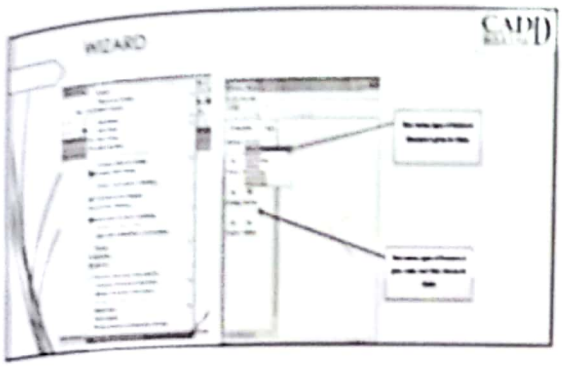






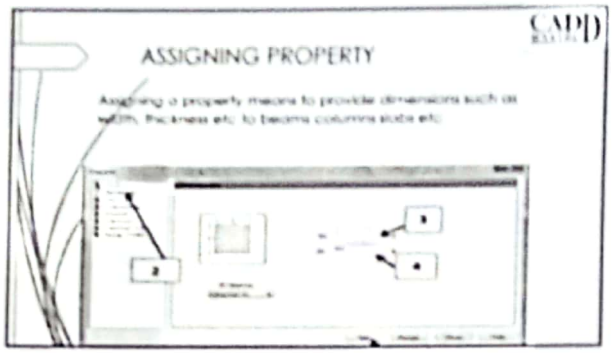


WIZARD

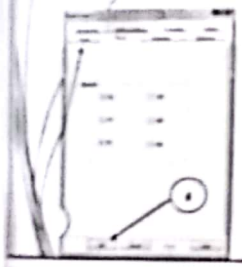


ASSIGNING PROPERTY

Assigning a property means to provide dimensions such as width, thickness etc. to beams columns slabs etc.



SUPPORTS

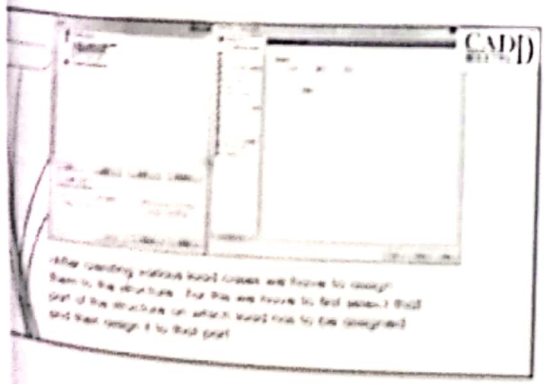


1. There are three types of supports provided to a structure
   - Fixed support
   - Pinned support
   - Roller support

2. There are options provided in Staad for pinned and fixed supports while roller support has to be created by releasing the Fx and Mz components using fixed but.

ASSIGNING LOADS

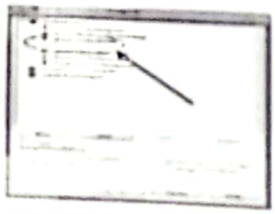
- Any structure is subjected to basically these types of loads:
  1. Dead load
  2. Live Load
- Dead load includes the self weight of the structure while live load consists of superimposed load.
- In addition to a structure is also subjected to wind and seismic or earthquake forces
- While designing a structure subjected to wind and earthquake forces we also have to provide definitions along with various load cases



After creating various load cases we have to assign them to the structure. For this we have to first select that part of the structure on which load has to be assigned and then assign it to that part

Continued...

- In case of structures subjected to wind and earthquake forces wind and seismic definitions need to be provided.

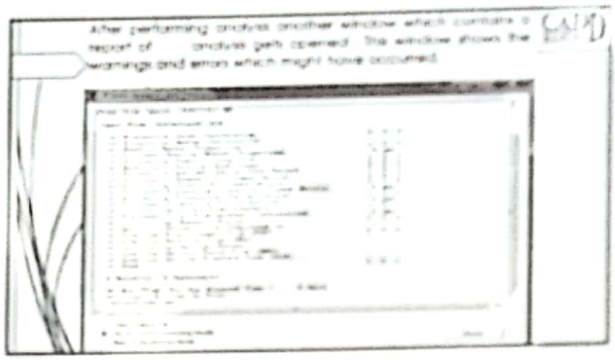


- After providing these definitions only the load cases should be entered.

ANALYSIS

- After all the above stated steps a structure has to be analysed.
- Analysis of a structure means to find out the reactions and displacements and deflections at various nodes of a structure.

After performing analysis another window which contains a report of analysis gets opened. This window shows the warnings and errors which might have occurred.



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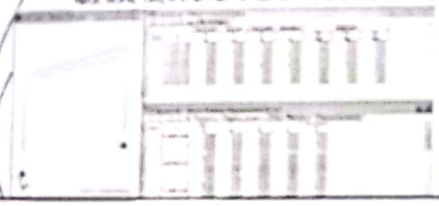
- In the post processing mode we are able to see the reactions, displacements, deflections, shear forces and



DESIGN

- After analysis a structure has to be designed to carry loads acting on it considering a certain factor of safety.
- In India structures are designed by using various Indian codes for both concrete and steel structures.
- The design in STAAD.Pro supports over 70 international codes and over 20 U.S. codes in 7 languages.
- After designing the structure it is again analysed and results of analysis for each beam and column is shown in the output file.

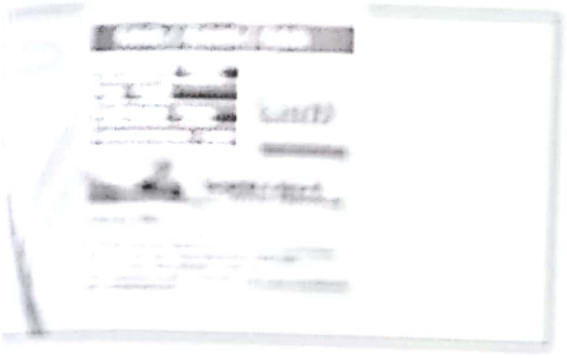
ADVANTAGES OF STAAD.Pro

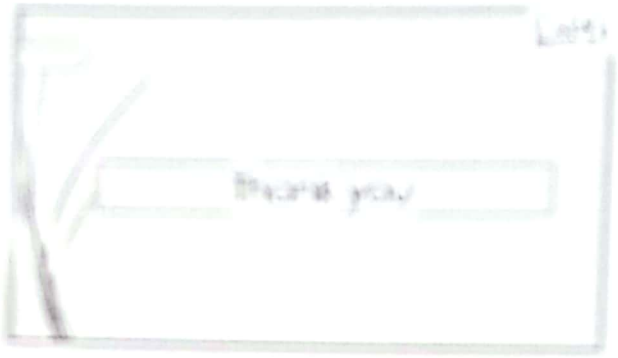
Following are the advantages of STAAD.Pro

1. Covers all aspects of structural engineering
2. Broad spectra of design codes
3. International codes
4. Quality assurance
5. Reports and documentation

CONCLUSION

- Staad pro is widely used by most of the organization for their construction needs.
- Unfortunately, well skilled staad pro engineers are very hard to search.
- If we believe in the prediction of the industry experts then those students who will be getting trained on staad pro in the current and upcoming two years will have bright and successful career ahead in the real estate and construction domain.
- By attending this training in STAAD.Pro we were able to learn various features of STAAD.Pro which will be very helpful in the near future.




Let's

[illegible] PILLAI ENGINEERING COLLEGE, [illegible]

VISITING FACULTY EVALUATION FORM

[illegible] of the seminar : STRUCTURAL ANALYSIS [illegible]
[illegible] : [illegible] Dept: CIVIL
[illegible] Name : [illegible]

[illegible] Content

Session No.	Speaker Name	Identified Topics	Duration of the session	Topic Coverage and Relevance	preparedness
1	[illegible]	STRUCTURAL ANALYSIS [illegible] for CIVIL students	[illegible] TO [illegible]		

[illegible] Excellent = 5, Very Good = 4, Good = 3, Average = 2, Poor = 1

Overall Organisation of the Lecture

Please rate the following aspects of the seminar organisation and administration
Excellent = 5, Very Good = 4, Good = 3, Average = 2, Poor = 1

[illegible] 5 4 3 2 1
[illegible] Coverage and Relevance 5 4 3 2 1
[illegible] objective of the seminar was well defined 5 4 3 2 1
[illegible] of content was excellent 5 4 3 2 1
[illegible] content was pertaining to my expectation 5 4 3 2 1
[illegible] materials & proceedings 5 4 3 2 1
[illegible] Catering 5 4 3 2 1

[illegible] Experience about the Workshop 5 4 3 2 1

Excellent = 5, Very Good = 4, Good = 3, Average = 2, Poor = 1

[illegible] Please give us your valuable details.

[illegible]

[illegible]

[illegible]

[redacted]

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[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

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[illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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Nagapattinam -611002,Tamilnadu,India.

DEPARTMENT OF CIVIL ENGINEERING

STRUCTURAL ANALYSIS –STADD PRO

IFERANCE FROM FEEDBACK REPORT;

llowing points are observed:

1. Three units of the syllabus is covered by the faculty
2. Faculty delivered the Lecture effectively.
3. 85% of the students suggested that the program may be continued for the forth coming years
4. 95% of the students got passed with more than 80% marks in the test conducted.
5. Students feedback showed that Guest Lecture was very useful in the knowledge, informative and understanding point of view

Recommendation for further actions based on feedback and attainment calculation

1. As we got very good feedback in topic coverage and relevance of this Lecture, further more we can arrange more relevant and current trend topics Lecture
2. Since Objective of the Lecture is clearly defined and quality of delivered content is very good, we will arrange more Lecture with same resource person
3. Seminar material is useful but need more clear and in depth concepts we will make more easy materials for understanding and future reference
4. Due to reach of Expected level in program, we will keep arranging similar programs
5. From the students feedback of welcoming , this programme can be conducted for upcoming Batch students.

Dr.S. Anand Kumar Varma, M.E., Ph.D.
Professor & Head
Dept. of Civil Engineering
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DEPARTMENT OF CIVIL ENGINEERING

[illegible]

[illegible]

[illegible] 2021

REG.NO :

NAME :

[illegible]

BRANCH :

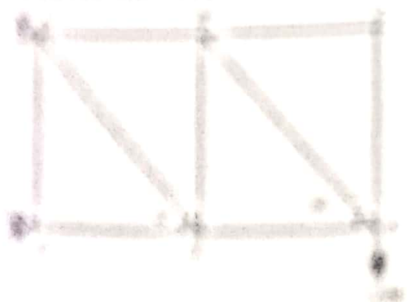
SEMESTER :

1. Which of the following structural loads are not applied commonly to a building?
a) Environmental load
b) Live load
c) Dead load
d) [illegible] load

Answer: d
Explanation: First three types of loads are always applied to buildings.

2. In the equation U = [illegible], what is the load factor for [illegible] if the structural action of [illegible] counteracts that due to [illegible]?
a) [illegible]
b) [illegible]
c) [illegible]
d) [illegible] Answer: [illegible]
Explanation: [illegible]
approximately

3. Calculate the force in member [illegible]



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DEPARTMENT OF CIVIL ENGINEERING

[illegible]

OBJECTIVE TYPE QUESTION PAPER WITH KEY

[illegible]

REG.NO :

NAME :

[illegible] :

[illegible] :

1. Which of the following structural loads are not applied commonly to a building?
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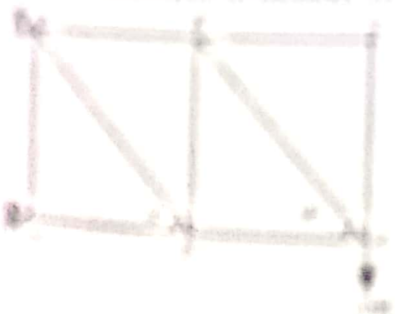
c) Dead load
d) [illegible] load

Answer: d
Explanation: First three types of loads are always applied to buildings.

2. In the equation [illegible], what is the load factor for [illegible] the structural action of [illegible] that due to [illegible]?
a) [illegible]
b) [illegible]
c) [illegible]
d) [illegible] Answer: [illegible]
Explanation: [illegible] and value of [illegible] for structural steel frames is approximately [illegible]

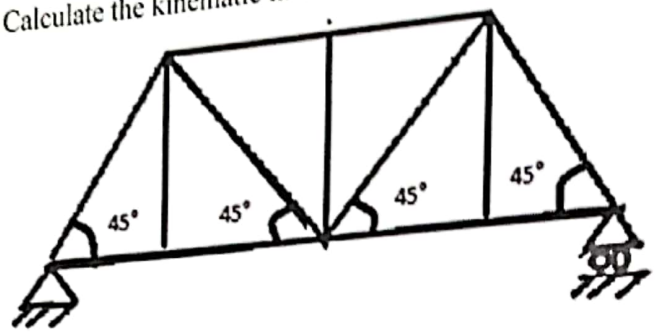
3. Calculate the force in member [illegible]



a) 0KN
b) 2-√ KN (TENSILE)
c) 1KN (TENSILE)
d) 1KN (COMPRESSIVE)

Answer: b
Explanation: Base plate is provided on one end of the long roof truss so that it can slide in case of temperature fluctuations.

4. Calculate the kinematic indeterminacy of the following pin jointed plane frame.



a) 15
b) 12
c) 13
d) 14

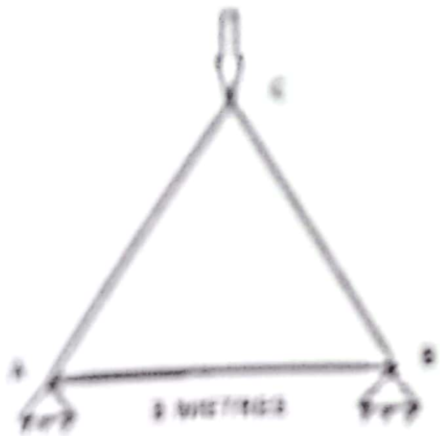
Answer: c
Explanation: The truss is supported by hinged support at one end and roller support at other end. Hinged support in a pin jointed plane frame does not offers any degree of freedom as rotation is not considered. But roller support offers horizontal movement and hence degree of freedom is 1. For the given truss, it consists of six pin joint offering two degree of freedom each. Therefore, the degree of freedom is 12 + 1 = 13.

5. What is the relation between Fad and Fda in the below figure?

a) Fad = -2Fda
b) Fad = 2Fda
c) Fad = Fda
d) Fad = -Fda

Answer: d
Explanation: Magnitudes will be same as stated above. Now, sign will be opposite as slope at B won't change in deflection diagram and there won't be and vertical deflection at point C.

[illegible] Calculate the k value of the member BC for the given external redundant truss, considering the horizontal reaction of support B as a redundant force.



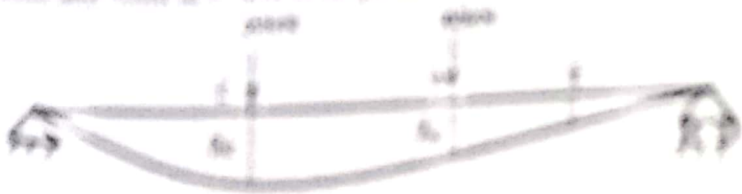
a) [illegible]
b) [illegible]
c) [illegible]
d) [illegible]

Answer: [illegible]
Explanation: If the support reaction at support is considered [illegible] rightward, the horizontal force at the joint will be balanced by horizontal force in member [illegible]. Thus, member BC becomes a zero force member.

[illegible] Which of the following methods for solving indeterminate structures are easier for computational purposes?
a) Displacement method
b) Method of consistent deformation
c) Moment area method
d) Force method

Answer: a
Explanation: b and d are same options and deflection method requires less effort.

[illegible] The beam shown in the figure carries loads of [illegible] and [illegible] at points C and D respectively and produces a deflection of [illegible] at point E. To produce a deflection of [illegible] and [illegible] at C and D respectively, the load required at E would be ______



a) [illegible]

b) 60kN
c) 20kN
d) 50Kn
Answer: b
Explanation: By Betti's Theorem,
$20 * 8 + 40 * 5 = W * 6$
W = 60kN.

9. If a structure has total 10 joints, then what should be the minimum no. of joints in which equilibrium equations should be concurrently satisfied for stability?
a) 9
b) 10
c) 8
d) 7
Answer: b
Explanation: For stability, equilibrium equations should be satisfied concurrently at each and every joint of the structure.

10. If a structure has $2j - r$ no. of members, then it will be:-
a) depends upon structure
b) depends upon magnitude of load
c) unstable
d) stable

Answer: a
Explanation: In these cases, structures can be stable as well unstable.

Co-Ordinator

HoD/Civil

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Dept. of Civil Engineering
E.G.S. Pillay Engg. College
(Autonomous)
Nagapattinam - 611 002.
Tamilnadu

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DEPARTMENT OF CIVIL ENGINEERING

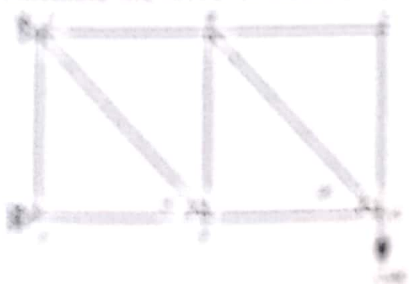
[illegible]

[illegible]

1. Which of the following structural loads are not applied commonly to a building?
a) Environmental load
b) Live load
c) Dead load
d) [illegible] load

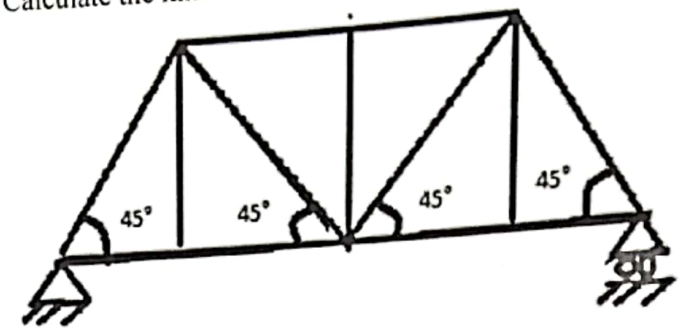
2. In the equation [illegible], what is the load factor [illegible]
[illegible]
a) [illegible]
b) [illegible]
c) [illegible]
d) [illegible]

3. Calculate the force in member [illegible]



[illegible]

4. Calculate the kinematic indeterminacy of the following pin jointed plane frame.

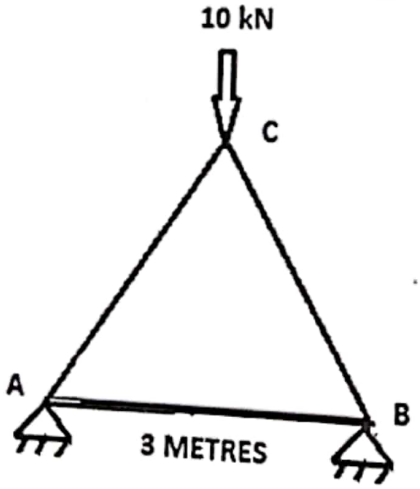


a) 15
b) 12
c) 13
d) 14

5. What is the relation between Fad and Fda in the below figure?

a) Fad = -2Fda
b) Fad = 2Fda
c) Fad = Fda
d) Fad = -Fda

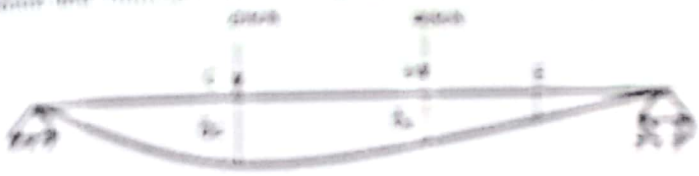
6. Calculate the k value of the member BC for the given external redundant truss, considering the horizontal reaction of support B as a redundant force.



a) 2.89kN
b) 0kN
c) 3kN
d) 1kN

4. Which of the following methods for solving indeterminate structures are suitable for computational purpose?
   a) Slope-deflection method
   b) Method of consistent deformation
   c) Moment area method
   d) Conjugate beam method

5. The beam shown in the figure carries loads of 20kN and 40kN at point C and D respectively and produces a deflection of 6mm at point E. To produce a deflection of 8mm and 7mm at C and D respectively, the load required at E would be _____



   a) 40kN
   b) 48kN
   c) 32kN
   d) 60kN

7. If a structure has only 10 joints, how what should be the minimum no. of rods in which equilibrium equations should be concurrent; satisfied for stability?
   a) 8
   b) 16
   c) 9
   d) 7

10. If a structure has 12 no. of members, then it will be:
   a) Depends upon structure
   b) Depends upon magnitude of load
   c) unstable
   d) stable

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Nagapattinam - 611002, Tamilnadu, India

DEPARTMENT OF CIVIL ENGINEERING

[illegible]

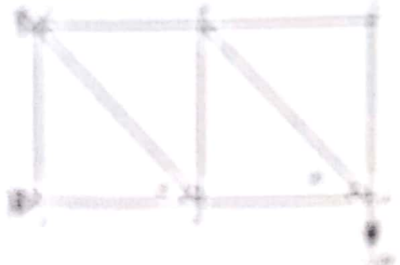
[illegible]

[illegible]

Which of the following structural loads are not applied commonly to a building?
a) Environmental load
b) Live load
c) Dead load
d) Train load

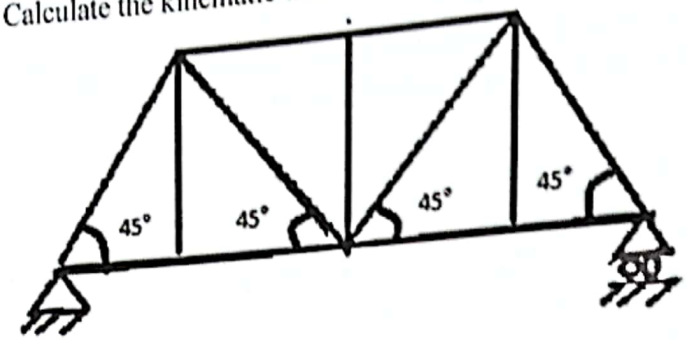
In the equation U = (1.4D) + 1.7(W + 1.4D), what is the load factor for D if the structural action of D counteracts that due to W or E?
a) [illegible]
b) [illegible]
c) [illegible]
d) [illegible]

Calculate the force in member [illegible]



a) [illegible]
b) [illegible]
c) [illegible]
d) [illegible]

4. Calculate the kinematic indeterminacy of the following pin jointed plane frame.

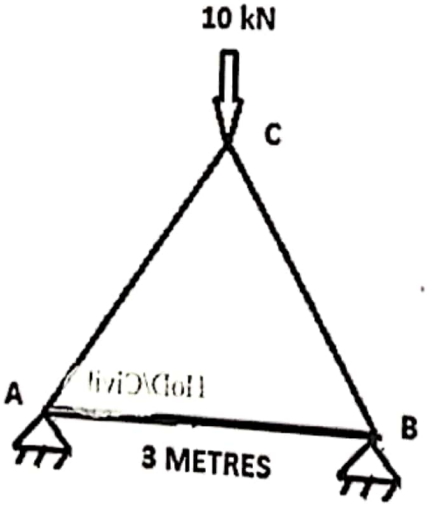


a) 15
b) 12
c) 13
d) 14

5. What is the relation between Fad and Fda in the below figure?

a) Fad = -2Fda
b) Fad = 2Fda
c) Fad = Fda
d) Fad = -Fda

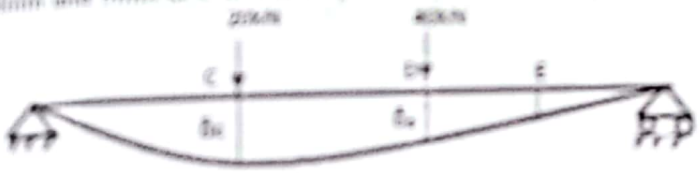
6. Calculate the k value of the member BC for the given external redundant truss, considering the horizontal reaction of support B as a redundant force.



a) 2.89kN
b) 0kN
c) 3kN
d) 1kN

7. Which of the following methods for solving indeterminate structures are easiest for computational purposes?
a) Displacement method
b) Method of consistent deformation
c) Moment area method
d) Force method

8. The beam shown in the figure carries loads of 20kN and 40kN at point C and D respectively and produces a deflection of 6mm at point E. To produce a deflection of 8mm and 5mm at C and D respectively, the load required at E would be _____



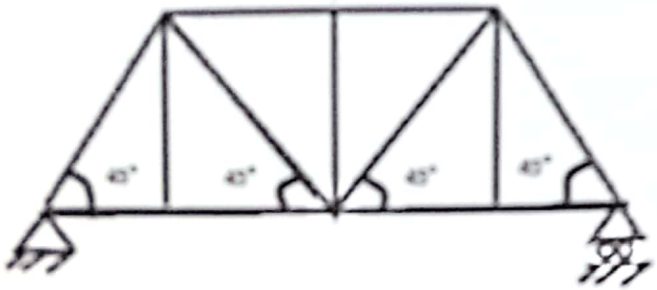
a) 40kN
b) 60kN
c) 20kN
d) 80kN

9. If a structure has total 10 joints, then what should be the minimum no. of joints in which equilibrium equations should be concurrently satisfied for stability?
a) 9
b) 11
c) 8
d) 7

10. If a structure has 2j – s no. of members, then it will be:-
a) depends upon structure
b) depends upon magnitude of load
c) unstable
d) stable

Coefficient of

4. Calculate the kinematic indeterminacy of the following pin jointed plane frame.

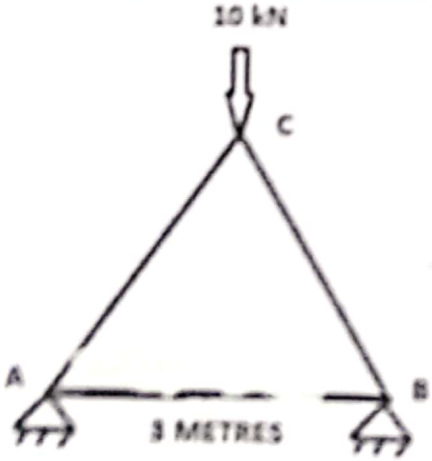


a) 15
b) 12
c) 13
d) 14

5. What is the relation between Fad and Fda in the below figure?

a) Fad = -2Fda
b) Fad = 2Fda
c) Fad = Fda
d) Fad = -Fda

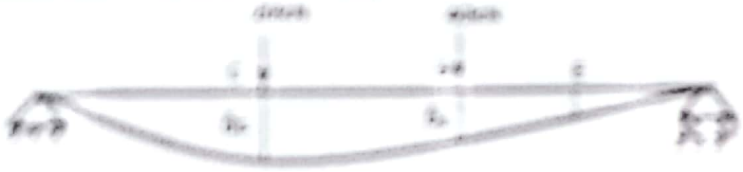
6. Calculate the k value of the member BC for the given external redundant truss, considering the horizontal reaction of support B as a redundant force.



a) 2.89kN
b) 0kN
c) 3kN
d) 1kN

7. Which of the following methods for solving indeterminate structures are suitable for computational purposes?
   a) Conjugate beam method
   b) Method of consistent deformation
   c) Moment area method
   d) Force method

8. The beam shown in the figure carries loads of 20kN and 40kN at point C and D respectively and produces a deflection at beam at point C. To produce a deflection of beam and 7mm at C and D respectively, the load required at C would be _____



   a) 40kN
   b) 60kN
   c) 70kN
   d) 80kN

9. If a structure has total 10 joints, how what should be the minimum no of joint in which equilibrium equations should be concurrently satisfied for stability?
   a) 5
   b) 10
   c) 9
   d) 7

10. If a structure has 7 no of members, how it will be:
   a) depends upon structure
   b) depends upon magnitude of load
   c) unstable
   d) stable

ATTAINMENT CALCULATIONS
MAPPING WITH PO's

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P1O	PO11	PO12	PSO1	PSO2
of d ng O	S	S			S	L	M					S	M	

After the successful completion, the graduates 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 mechanism for sustainable and life-line infrastructures.

ttainment Calculations:

Name	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total marks
AKASH S	2	2	2	2	0	2	2	2	0	2	16
BI S	2	2	2	0	2	2	0	2	0	2	14
BU FIRNAZH F	0	0	2	2	0	2	2	2	2	2	14
CASH R	2	2	2	2	2	2	2	0	2	0	16
LEX PANDIYAN S	2	2	2	2	2	0	0	2	2	2	16
MRISH J	2	2	2	2	0	2	2	0	2	2	16
BUKUMAR M	2	2	2	2	2	0	2	2	0	0	14
PRASATH G	0	2	0	2	0	2	2	2	2	2	14
THI M	2	2	2	0	0	2	2	2	2	2	16
ASUNDHARI R	0	2	2	2	0	2	2	0	2	2	14
VADHARANI S P	2	2	2	2	2	2	0	0	2	2	16
VASRI C	2	0	2	2	2	2	2	0	2	2	16

RIHARAN E	2	2	0	0	2	2	0	2	2	2	14
NAL T	2	0	0	0	0	0	2	2	0	2	8
RIHARAN K	2	2	2	2	0	2	2	2	2	2	18
GAN J	2	2	0	2	2	2	2	2	2	2	18
RTHIKEYAN A	2	2	0	2	2	0	2	2	2	0	14
ERTHANA S	2	2	2	2	2	2	2	2	2	0	18
SHOOREKUMAR	2	2	2	2	2	2	2	2	2	2	20
WSALYA S	2	2	2	2	2	2	2	2	2	0	18
ITHIK BOTHRA	2	2	2	0	2	2	2	2	2	2	18
NJU G	2	2	2	2	2	2	2	2	2	2	20
HAMED ABDUL SITH M	0	2	2	2	2	2	2	2	2	2	18
HAMED FAHAD	2	2	2	0	2	2	2	2	2	2	18
HAMED ASLEEM T	2	2	2	2	2	2	2	0	2	2	18
GESH M	2	2	2	2	2	0	2	0	2	0	14
NISWARAN V	2	2	0	2	2	2	2	0	0	2	14
THIYA S	2	2	0	2	2	2	2	2	2	0	16
AS M	2	2	0	2	2	2	2	2	2	2	18
SANTH V	2	2	2	2	2	0	2	2	2	0	16
YADHARSHINE	0	2	0	2	0	2	2	2	2	2	14
HPARAJ A	2	2	2	2	2	0	2	2	2	2	18
ARI NATHAN C	0	2	2	2	2	0	2	2	2	2	16
HIL MOHAMED	2	2	2	0	2	2	2	2	2	2	18

	2	0	2	2	0	2	0	2	0	2	12
	0	2	2	2	2	0	2	0	2	0	12
	2	2	2	2	2	2	0	2	2	2	18
	2	2	2	0	0	2	0	0	2	0	10
	2	2	2	0	2	2	2	2	0	2	16
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	2	2	2	2	2	2	2	2	2	2	20
	2	2	2	2	2	2	2	2	2	2	20
	2	2	2	2	0	2	2	2	0	2	16
	2	2	2	0	2	2	0	2	0	2	14

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
... Marks	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
... percentage	87	88	89	87	80	78	81	80	[illegible]	80	82

...ment Level 1: [illegible]
...ment Level 2: [illegible]
...ment Level 3: [illegible]

...overall attainment level = [illegible] ([illegible]%)

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
2	2			2	1	[illegible]					[illegible]	[illegible]	

HoD
(Dr. [illegible])

Coordinator
([illegible])

Dr. [illegible]
Professor & Head
Dept. of Civil Engineering
[illegible] College
(Autonomous)
[illegible]
Tamilnadu

...vity End Reports

1. Expected attainment level (3) of this activity is achieved.
2. Support of this activity to the relevant POs is in the expected level.
3. From the students feedback, this programme can be conducted for upcoming batch students.

Coordinator
(P. Thamizhpathi)

HoD
(Dr. S. Anandkumarvarma)

S. Anand Kumar Varma, M.E., Ph.D.
Professor & Head
Dept. of Civil Engineering
E.G.S. Pillay Engg. College
(Autonomous)
Nagapattinam - 611 002.
Tamilnadu

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

Nagapattinam 611002

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Nagapattinam 611002, Tamilnadu, India

STATEMENT FOR PAYMENT OF REMUNERATION TO GUEST LECTURE/VISITING FELLOW/VISITING PROFESSOR

Name of the Faculty/Dr/Shri/Smt/Prof : [illegible]

Name of the Industry : [illegible]

Name of the Department : Civil Engineering

Remuneration for the Month : January

Contract No : [illegible]

Details of Session Delivered : [illegible]

DATE	NO OF CLASSES	DATE	NO OF CLASSES	DATE	NO OF CLASSES
[illegible]	2	[illegible]	2		
[illegible]	2	[illegible]	2		
[illegible]	2	[illegible]	2		
[illegible]	2				
			TOTAL NO OF CLASSES		[illegible]

Signature

Date: [illegible]

Certified that Dr/Shri/Smt/Prof [illegible] visiting fellow/visiting professor/Guest Lecture has delivered [illegible] Lectures/tutorial classes during the month of January and is entitled to remuneration of Rs. [illegible] (@ Rs. [illegible] per lecture/per day)

Signature of the HoD with Seal

Date: [illegible]

CADD CENTRE

CADD TRAINING CENTRE, NAGAPATTINAM

&

E.G.S. PILLAY ENGINEERING COLLEGE

(Autonomous)

NAGAPATTINAM – 611002

Accredited by NAAC with 'A' Grade | Recognized by DSIR | Accredited by NBA (Mechanical, EEE, CSE)

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

CERTIFICATE

This is to certify that Mr. / Ms. / Mrs. **SRINITH M** Of Civil Engineering has attended Value Added Course on **"STAAD PRO "** on 4th January 2021 to 12th January 2021 organized by Department of Civil Engineering, E.G.S. Pillay Engineering College (Autonomous), Nagapattinam.

Mr. V.Balasubramani
Convener – Course Coordinator

Dr. S.Anand Kumar Varma
HoD

Dr. S. Ramabalan
Principal

EGS PILLAY
ENGINEERING COLLEGE
Nagapattinam - 611002

E.G.S.Pillay Engineering College Nagapattinam-611 002

(An ISO 9001-2008 Certified Institution)

Affiliated to Anna University, Chennai
Tamilnadu,India

Department of ECE

5 days value added course on ***ARM CORTEX M4 MICROCONTROLLER***

On

06.03.2021 - 10.03.2021

Convener

Dr. B. PADMANABAN,HOD/ECE

Co-ordinators

Mr. S.SENTHILKUMAR,A.P/ECE
&
Ms. K.K.SHANDHOSH SHREE AP/ECE

EGS PILLAY Engineering College
Autonomous
Old Nagore Road, Nagapattinam-611 002. Tamilnadu
Affiliated to Anna University | Approved by AICTE | Accredited by - NBA & NAAC 'A' Grade | Recognised by UGC 2(f) & 12(B) | An ISO 9001:2015 Certified Institution
Counselling Code : 3806
+91-4365-251112/14 | principal@egspec.org/enquires@egspec.org

Department of Electronics and Communication Engineering

(Accredited by NBA)

ARM CORTEX M4 MICROCONTROLLER

06.03.2021 - 10.03.2021

Time: 10.00 AM – 11.30AM

LECTURE

by

Dr. K.Sainadhkumar, M.E, Ph.D.,
Assistant Professor,
Department of ECE
K.Ramakrishna college of Engineering,
Trichy

Convenor : Co-ordinators

HOD/ECE

((MR.S.SENTHIL KUMAR, A/P(ECE)) AP/ECE

(MS.K.K.SHANDHOSH SHREE) AP/ECE

(DR. B. PADMANABAN)

E.G.S. PILLAY ENGINEERING COLLEGE
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Nagore Post, Nagapattinam – 611 002, Tamilnadu.
Department of Electronics and Communication Engineering

ARM CORTEX M4 MICROCONTROLLER

REPORT

Online Guest Lecture Programme in **ARM CORTEX M4 MICROCONTROLLER** , has been conducted in our E.G.S Pillay Engineering College, Nagapattinam, organized by Department of Electronics and Communication Engineering, E.G.S. Pillay Engineering College, Nagapattinam. The Programme was started on 06.03.2021-10.03.2021 at 10 AM in online mode.

The one of the co-ordinator **Mr. S.SENTHIL KUMAR AP/ECE**, started this course with his welcome address. Head of the department **Dr.B.PADMANABAN** gave the keynote address. Our esteemed Principal **Dr.S.RAMABALAN** presented the inaugural address and finally Our chief Guest **Dr.K.SAINADHKUMAR,M.E.,Ph.D., Department of ECE from K.RAMAKRISHNAN COLLEGE OF ENGINEERING-TRICHY** has explicated about Success full Interview skills needed for Jobs in Electronics and communication sectors.

Finally, Programme came to a close, with the summary of the whole programme was given by **Mr. S. SENTHIL KUMAR AP/ECE**, Coordinator, and Co-Coordinator **Ms.K.K.SHANDHOSH SHREE AP/ECE**, proposed vote of thanks.

Coordinators 10/03/21
(Mr. S.SENTHIL KUMAR)
(Ms.K.K.SHANDHOSH SHREE)

HOD
Dr.B.PADMANABAN

Dr. B. PADMANABAN. M.E., Ph.D.,
Professor & Head,
Department of Electronics and Communication Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

03.03.2021

From

S.Senthil kumar, A/P(ECE)
Assistant Professor,
Department of ECE,
E.G.S.Pillay Engineering College,
Nagapattinam.

To

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

3/3/21

Respected Sir,

Sub: Requisition to conduct online value added course– Reg.

We planned to conduct Five days value added course on **ARM CORTEX M4 MICROCONTROLLER** from 06.03.2021 - 10.03.2021. So, we request you to give the permission to conduct the course.

Thanking you,

Your's Faithfully

06/03/21

(Mr. S.SENTHIL KUMAR)

K.K.

(Ms.K.K.SHANDHOSH SHREE)

Forwarded to Principal

Date: 03.03.2021

Place: EGSPEC, Nagapattinam

03.03.2021

From

S.Senthil kumar, A/P(ECE)
Assistant Professor,
Department of ECE,
E.G.S.Pillay Engineering College,
Nagapattinam.

To

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

Respected Sir,

Sub: Requisition for Budget to conduct online value added course– Reg.

We planned to conduct online value added course on **"ARM CORTEX M4 MICROCONTROLLER"** from 06.03.2021 - 10.03.2021. Approximation budget for this value added course is enclosed with this letter. We request you to kindly do the needful.

Thanking you,

Date:03.03.2021

Your's Faithfully

Place: Nagapattinam

Forwarded to Principal

S.Senthil kumar, A/P(ECE)

03.03.2021

From

Dr. B. Padmanaban,
Head of the department,
Department of ECE,
E.G.S. Pillay Engineering College,
Nagapattinam.

To

Dr. K.Sainadhkumar, M.E, Ph.D.,
Assistant Professor,
Department of ECE
K. Ramakrishna college of Engineering,
Trichy.

Respected Madam ,

Sub: Requisition to be an resource person and take session on Embedded systems – **Reg.**

Respected Sir,

I am very glad to share that, we are going to conduct online value added course on **"ARM CORTEX M4 MICROCONTROLLER"** from 06.03.2021 - 10.03.2021 in online mode. In connection with this, it will be a great pleasure for us to request to be resource person and take session in embedded sytems.

Thanking you,

Forwarded to principal

Your's Faithfully

Place: Nagapattinam

(DR. B. PADMANABAN)

Dr. B. PADMANABAN, M.E., Ph.D.,
Professor & Head,
Department of Electronics and Communication Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

03.03.2021

From

Dr. K.Sainadhkumar, M.E, Ph.D.,
Assistant Professor,
Department of ECE
K. Ramakrishna college of Engineering,
Trichy.

To

Dr. B. Padmanaban,
Head of the department,
Department of ECE,
E.G.S. Pillay Engineering College,
Nagapattinam

Respected Sir,

Sub: Acceptance of resource person - **VALUE ADDED COURSE – Reg.**

Respected Sir,

I am very happy to see your letter about to deliver a lecture on **"ARM CORTEX M4 MICROCONTROLLER"** as a resource person to your students. I would like to take this session .

Thanking you,

Your's Faithfully

Date: 03.03.2021

Place: Trichy

(Dr. K.Sainadhkumar, M.E, Ph.D.,)

EGS PILLAY Engineering College
Autonomous
Old Nagore Road, Nagapattinam-611 002, Tamilnadu
Affiliated to Anna University | Approved by AICTE | Accredited by - NBA & NAAC 'A' Grade | Recognised by UGC 2(f) & 12(B) | An ISO 9001:2015 Certified Institution
Counselling Code : 3806
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FIVE DAYS VALUE ADDED COURSE online

on

"ARM CORTEX M4 MICROCONTROLLER"

06.03.2021 - 10.03.2021

ORGANIZED BY

Department of Electronics and Communication Engineering

Date: 03.03.2021

BUDGET REQUIREMENT

S.No	Particulars	Amount Required (In Rs.)
01	Resource person honorarium	5,000/-
	TOTAL	**5,000/-**

Coordinators

03/03/21

(S.Senthil kumar, A/P(ECE)

(K.K.Shandhosh Shree AP/ECE)

HOD

(Dr. B. PADMANABAN)

Dr. B. PADMANABAN M.E.,
Professor & Head,
Department of Electronics and Communication Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

STAFF ATTENDED THE VALUE ADDED COURSE

Faculty	Signature	Faculty	Signature
Mr.K.Parthasarathi		Mr.S.Jim Hawkinson	
Mrs.R.S.Kotteshwari		Mr.S.Senthilkumar	
Mrs.S.Chitra		Mr.T.Senthilkumar	
Mrs.V.Elavarasi		Ms.K.K.Shandhosh shree	
Mr.D.Devarajan		Ms.S.Dhanalakshmi	
Mr.M.Nuthal Srinivasan		Ms.S.Aadhirai	
Mr.M.Irshad Ahamed			
Mr.L.Ramachandran		--	--

EGSP ENGINEERING COLLEGE – NAGAPATTINAM

DEPARTMENT OF ECE

VALUE ADDED COURSE-2021

Objectives of **Value added course**:

1. Explain the basic concepts of real time Operating system design and architecture of ARM-Thumb and Thumb-2 processor.
2. Illustrate differentiate between the general purpose operating system and the real time operating system.
3. Summarize the system design techniques to develop software for embedded systems.
4. Classify the System design Techniques for Architecture design and Quality Assurance Techniques
5. Construct a Model of real-time applications using cortex M4 concepts.

Attainment Process:

1. Students have to write objective test (maximum of 10 questions) based on the training.
2. If he/she scores 10 he/she is attained maximum of the objectives (on relative score basis 0-3= 3; 4-6= 6; 7-10= 9).
3. Calculate cumulative score from the entire class.
4. Find average of it and check whether objective is attained or not.

E.G.S. PILLAY ENGINEERING COLLEGE
(An Autonomous Institution, Affiliated to Anna University, Chennai)
Nagore Post, Nagapattinam – 611 002, Tamilnadu.
Department of Electronics and Communication Engineering

ECE/2021/EVEN/CIRCULAR-07

DEPARTMENT CIRCULAR DATED

To enhance the practical Skills to face Interview and Some Needed abilities of our ECE students, We are going to conduct the value added course on **"ARM CORTEX M4 MICROCONTROLLER"** from 06.03.2021 - 10.03.2021 through online mode

OBJECTIVE

An effort to create awareness on Model of real-time applications using embedded-system concepts, it would help the students to do innovative projects.To enhance the practical Skills to face Interview and Some Needed abilities.

DAYS	Participants	EVENT	RESOURCE PERSON
06.03.2021 - 10.03.2021	ECE Students	• Practical Video of Working Environment. • UART Techniques • GPIO • Cortex M4 interrupt handling • App development	Dr. K.Sainadhkumar, M.E, Ph.D., Assistant Professor, Department of ECE K.Ramakrishna college of Engineering, Trichy.

Program Co-ordinators

02/03/21

(S.Senthil kumar, A/P(ECE)

(Ms.K.K.Shandhosh shree,AP/ECE)

HOD/ECE

(Dr. B. PADMANABAN)

Dr. B. PADMANABAN. M.E., Ph.D.,
Professor & Head,
Department of Electronics and Communication Engineering
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

EGSP ENGINEERING COLLEGE – NAGAPATTINAM
DEPARTMENT OF ECE
VALUE ADDED COURSE -2021

S.no	REGISTER NUMBER	STUDENT NAME	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	E20ECR001	AARTHI T	1	1	1	1	1	1	1	0	1	1
2	E20ECR002	ABARNA K	1	1	1	1	0	1	1	1	1	1
3	E20ECR003	ABDUL RAASHID J	1	1	1	1	1	1	1	1	1	1
4	E20ECR004	ABINAYA S	1	1	0	1	1	1	1	1	1	1
5	E20ECR005	ABISHEK J	1	1	1	0	1	1	1	1	1	1
6	E20ECR006	ADHIRAI V	1	1	1	1	1	1	1	1	1	1
7	E20ECR007	AISHWARYA R	1	1	1	1	1	1	1	1	0	1
8	E20ECR008	ANISHA K	1	1	0	1	1	0	1	1	1	1
9	E20ECR009	ARAVIND J	1	1	1	1	1	1	1	1	1	1
10	E20ECR010	ARULMARY A	1	1	1	1	1	1	0	1	1	1
11	E20ECR011	BHARANIDHARAN V	1	1	1	1	0	1	1	1	1	1
12	E20ECR012	BHUVANESHWARI K	1	1	1	1	1	1	1	1	1	1
13	E20ECR013	BHUVANESHWARI N	1	0	1	1	1	1	1	1	1	1
14	E20ECR014	DEVA T	1	1	1	1	1	1	1	1	1	0
15	E20ECR015	DHANUSH R	0	1	1	1	1	1	1	0	1	1
16	E20ECR016	DHARANI S	1	1	1	1	1	1	1	1	1	1
17	E20ECR017	DHAYANITHI M	1	1	0	1	1	1	1	1	1	1
18	E20ECR018	DIVYADHARSHINI N	1	1	1	0	1	1	1	1	1	1
19	E20ECR019	ELANGAVI E	1	1	1	1	1	1	0	1	1	1
20	E20ECR020	GOBINATH M	1	1	1	1	1	1	1	1	1	1
21	E20ECR021	HARIDHARANI G	1	1	1	1	1	1	1	1	1	1
22	E20ECR022	HARIHARAN V	0	1	1	1	1	1	1	1	1	1
23	E20ECR023	IMRAN KHAN J	1	1	1	1	1	1	1	1	1	1
24	E20ECR024	IRSATH HASAN S	1	1	1	1	1	1	1	1	1	1
25	E20ECR025	JANA T	1	1	1	1	1	1	1	1	1	1
26	E20ECR026	KALAIVANI E	1	1	1	1	1	1	1	1	1	1
27	E20ECR027	KALIFA KADHAR S	1	1	1	1	1	1	1	1	1	1
28	E20ECR028	KAMALESH J	1	1	1	1	1	1	1	1	1	1
29	E20ECR029	KANNAN A	1	1	0	1	1	1	1	1	1	1
30	E20ECR030	KAVIPRIYA K	1	1	1	1	1	1	1	1	0	1
31	E20ECR031	KAVIVENIL U	1	1	1	1	1	1	1	1	1	1
32	E20ECR032	KAVIYA K	0	1	1	1	1	0	1	1	1	0
33	E20ECR033	KAVIYARASAN R	1	1	1	1	1	1	1	1	1	1
34	E20ECR034	KEERTHANA S	1	1	1	1	1	1	1	1	1	1
35	E20ECR035	KESAVAN M	1	1	1	1	1	1	1	0	1	1
36	E20ECR036	KISHORE B	1	1	1	0	1	1	1	1	1	1
37	E20ECR037	KISHORE S	0	1	1	1	1	1	1	1	1	1
38	E20ECR038	LAKSHMI PRIYAA P	1	1	1	1	1	1	1	1	1	1
39	E20ECR039	MALASRI M	1	1	1	1	1	1	0	1	1	1
40	E20ECR040	MOHAMED JAFRAN M	1	1	1	1	1	0	1	1	1	1
41	E20ECR041	MOHAMED JAMALUDEEN M	1	0	1	1	1	1	1	1	0	1

42	E20ECR042	MOHAMED NOWSATH ALI M	1	1	1	1	1	1	1	1	1	1
43	E20ECR043	MOHAMED RABIUDEEN S	1	1	1	1	1	1	1	1	1	1
44	E20ECR044	MOHAMED SEYGU MEERAN M	1	1	1	1	1	1	1	1	1	1
45	E20ECR045	NAFEES A	1	1	1	1	1	1	1	1	1	1
46	E20ECR046	NANDHA S	1	1	0	1	1	1	1	1	1	1
47	E20ECR047	NAVEEN M	1	1	1	0	1	0	1	1	1	1
48	E20ECR048	NAVEENSARATHI R	1	1	1	1	1	1	1	1	1	0
49	E20ECR049	NITHISHKUMAR T	1	1	1	1	1	1	1	1	1	1
50	E20ECR050	NITHYA SRI S	0	1	1	1	1	0	1	1	1	1
51	E20ECR051	NIVETHA T	1	1	1	1	1	1	1	1	1	1
52	E20ECR052	NIVETHITHA P	1	1	1	1	1	1	1	1	1	1
53	E20ECR053	NIXONBELLORA V	1	1	1	1	1	1	1	1	1	1
54	E20ECR054	PRAKASH B	1	1	1	1	1	1	1	1	1	1
55	E20ECR055	PREETHIKA S	1	1	1	1	1	1	1	1	1	1
56	E20ECR056	PRIYATHARSHINI B	1	1	1	1	1	1	0	1	1	1
57	E20ECR057	PRIYAVARTHAN C	1	1	1	1	1	0	1	1	1	1
58	E20ECR058	RAGAVI R	1	0	1	1	1	1	1	1	0	1
59	E20ECR059	RAHUL R	1	1	1	1	1	1	1	1	1	1
60	E20ECR060	RAJESHWARI .R	1	1	1	1	1	1	1	1	1	1
61	E20ECR061	RAMYA A	1	1	1	1	1	1	1	1	1	1
62	E20ECR062	RATCHANYA R	1	1	1	1	1	1	1	1	1	1
63	E20ECR063	ROSINI P	1	1	1	1	1	1	0	1	1	1
64	E20ECR064	SABIEL RAHMAN S	1	1	1	1	1	0	1	1	1	1
65	E20ECR065	SAKTHIVEL M	1	0	1	1	1	1	1	1	0	1
66	E20ECR066	SAKTHIVISHAL I	1	1	1	1	1	1	1	1	1	1
67	E20ECR067	SALMANPARIS B	1	1	1	1	1	1	1	1	1	1
68	E20ECR068	SAMEERUDEEN S	1	1	1	1	1	1	1	1	1	1
69	E20ECR069	SANJAI M	1	1	1	1	1	1	1	1	1	1
Total			**64**	**65**	**64**	**65**	**67**	**62**	**64**	**66**	**64**	**66**

Total points scored = 647

Average of points scored = Total points scored / (Total Number of students * Total Questions) = 647/ (69*10) = 0.938

Attainment of objectives = Average points scored * Maximum credits for objectives = 0.938* 9 = 8.43

Program Co-ordinator

(Mr.L.Ramachandran,AP/ECE)

(Ms.K.K.Shandhoshree,AP/ECE)

HOD/ECE

(Dr. B. PADMANABAN)

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Professor & Head,
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25 YEARS OF EXCELLENCE

VALUE ADDED COURSE online

on

"ARM CORTEX M4 MICROCONTROLLER"

06.03.2021 - 10.03.2021

ORGANIZED BY

Department of Electronics and Communication Engineering

PARTICIPATION NAME LIST

Sl.no	NAME OF PARTICIPANT	COLLEGE NAME
1	AARTHI T	E.G.S PILLAY ENGINEERING COLLEGE
2	ABARNA K	E.G.S PILLAY ENGINEERING COLLEGE
3	ABDUL RAASHID J	E.G.S PILLAY ENGINEERING COLLEGE
4	ABINAYA S	E.G.S PILLAY ENGINEERING COLLEGE
5	ABISHEK J	E.G.S PILLAY ENGINEERING COLLEGE
6	ADHIRAI V	E.G.S PILLAY ENGINEERING COLLEGE
7	AISHWARYA R	E.G.S PILLAY ENGINEERING COLLEGE
8	ANISHA K	E.G.S PILLAY ENGINEERING COLLEGE
9	ARAVIND J	E.G.S PILLAY ENGINEERING COLLEGE
10	ARULMARY A	E.G.S PILLAY ENGINEERING COLLEGE
11	BHARANIDHARAN V	E.G.S PILLAY ENGINEERING COLLEGE
12	BHUVANESHWARI K	E.G.S PILLAY ENGINEERING COLLEGE
13	BHUVANESHWARI N	E.G.S PILLAY ENGINEERING COLLEGE
14	DEVA T	E.G.S PILLAY ENGINEERING COLLEGE
15	DHANUSH R	E.G.S PILLAY ENGINEERING COLLEGE
16	DHARANI S	E.G.S PILLAY ENGINEERING COLLEGE
17	DHAYANITHI M	E.G.S PILLAY ENGINEERING COLLEGE
18	DIVYADHARSHINI N	E.G.S PILLAY ENGINEERING COLLEGE
19	ELANGAVI E	E.G.S PILLAY ENGINEERING COLLEGE
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21	HARIDHARANI G	E.G.S PILLAY ENGINEERING COLLEGE
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23	IMRAN KHAN J	E.G.S PILLAY ENGINEERING COLLEGE
24	IRSATH HASAN S	E.G.S PILLAY ENGINEERING COLLEGE
25	JANA T	E.G.S PILLAY ENGINEERING COLLEGE
26	KALAIVANI E	E.G.S PILLAY ENGINEERING COLLEGE
27	KALIFA KADHAR S	E.G.S PILLAY ENGINEERING COLLEGE
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29	KANNAN A	E.G.S PILLAY ENGINEERING COLLEGE
30	KAVIPRIYA K	E.G.S PILLAY ENGINEERING COLLEGE
31	KAVIVENIL U	E.G.S PILLAY ENGINEERING COLLEGE
32	KAVIYA K	E.G.S PILLAY ENGINEERING COLLEGE
33	KAVIYARASAN R	E.G.S PILLAY ENGINEERING COLLEGE
34	KEERTHANA S	E.G.S PILLAY ENGINEERING COLLEGE

35	KESAVAN M	E.G.S PILLAY ENGINEERING COLLEGE
36	KISHORE B	E.G.S PILLAY ENGINEERING COLLEGE
37	KISHORE S	E.G.S PILLAY ENGINEERING COLLEGE
38	LAKSHMI PRIYAA P	E.G.S PILLAY ENGINEERING COLLEGE
39	MALASRI M	E.G.S PILLAY ENGINEERING COLLEGE
40	MOHAMED JAFRAN M	E.G.S PILLAY ENGINEERING COLLEGE
41	MOHAMED JAMALUDEEN M	E.G.S PILLAY ENGINEERING COLLEGE
42	MOHAMED NOWSATH ALI M	E.G.S PILLAY ENGINEERING COLLEGE
43	MOHAMED RABIUDEEN S	E.G.S PILLAY ENGINEERING COLLEGE
44	MOHAMED SEYGU MEERAN M	E.G.S PILLAY ENGINEERING COLLEGE
45	NAFEES A	E.G.S PILLAY ENGINEERING COLLEGE
46	NANDHA S	E.G.S PILLAY ENGINEERING COLLEGE
47	NAVEEN M	E.G.S PILLAY ENGINEERING COLLEGE
48	NAVEENSARATHI R	E.G.S PILLAY ENGINEERING COLLEGE

Coordinators

(Mr.S.Senthil kumar, A/P(ECE)

(Ms.K.K.Shandhosh Shree AP/ECE)

HOD

(Dr. B. PADMANABAN)

Dr. B. PADMANABAN, M.E., Ph.D.,
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on

"ARM CORTEX M4 MICROCONTROLLER"

06.03.2021 - 10.03.2021

ORGANIZED BY

Department of Electronics and Communication Engineering

Date: 03.03.2021

BUDGET SANCTION DETAILS

S.NO	PARTICULARS	AMOUNT SPENT (in Rs.)
01	Resource person honorarium	5,000/-
	TOTAL	5,000/-

Coordinators

(Mr.S.Senthil kumar, A/P(ECE)

(Ms.K.K.Shandhosh Shree AP/ECE)

HoD

(Dr. B. PADMANABAN)

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Recommendation for further actions based on feedback and attainment calculation

1. As we got very good feedback in topic coverage and relevance of this course, further more we can arrange more relevant and current trend topics

2. Since Objective of the value added course is clearly defined and quality of delivered contend is very good, we will arrange more seminars with same resource person

3. Value added course material is useful but need more clear and in depth concepts we will make more easy materials for understanding and future reference

4. Due to reach of Expected level in program, we will keep arranging similar programs

5. From the students feedback of welcoming , this programme can be conducted for upcoming batch students.

Coordinators

(Mr.S.Senthil kumar, A/P(ECE)

(Ms.K.K.Shandhosh shree, A/P(ECE)

HOD

(Dr. B. PADMANABAN)

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FIVE DAYS online VALUE ADDED COURSE

on

"ARM CORTEX M4 MICROCONTROLLER"

06.03.2021 - 10.03.2021

ORGANIZED BY

Department of Electronics and Communication Engineering

COMMITTEE LIST

Sl. No	Name of the Committee	Committee Representative	Responsibilities
1	Overall Program Coordination	L. Ramachandran K.K.Shandhosh shree	Invitation, Brochure, Report Preparation, Programme schedule and Overall Control
2	Comparing	M.Selvasundary S.Jim Hawkinson	Comparing for Inauguration and Valediction, Chief Guest honour.
3	PRO	M.Nuthalsrinivasan, C.Mathuvanesan	Photo Session & Communication

Coordinators

03/03/21

(S.Senthil kumar, A/P(ECE)

K.K. Shandhosh

(Ms.K.K.Shandhosh shree,A/P(ECE)

HOD
(DR. B. PADMANABAN)

Dr. B. PADMANABAN, M.E., Ph.D.,
Professor & Head,
Department of Electronics and Communication Engineering.
E.G.S Pillay Engineering College,
Nagapattinam - 611 002.

Value added course Summary

1. Name of Speaker:
   Mr. K.Sainadhkumar
2. Degree: M.E.,Ph.D.,
3. Speaker Details: Senior Embedded Engineer,
   i. Embedded Software Developer Vistronics Design Solution,Chennai
4. Date of speaker's presentation: 06.03.2021 - 10.03.2021
5. Beneficiary Details: ECE students
   Coordinator: Mr.S.Senthil kumar, A/P(ECE)

6. Title:**ARM CORTEX M4 MICROCONTROLLER**

Mapping of Course Outcomes Vs Program Outcomes

Course Outcomes (COs)	CO level	Program Outcomes (POs)											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	K2	2	1	-	-	-							
CO2	K2	2	1	-	-	-							
CO3	K3	3	2	1	-	-							
CO4	K2	2	1	-	-	-							
CO5	K2	2	1	-	-	-							

Course Outcomes (COs)	CO level	Program Specific Outcomes (PSOs)			
		PSO1	PSO2	PSO3	PSO4
PO level		K4	K3	K4	K2
CO1	K2	1	-	-	3
CO2	K2	1	-	-	3
CO3	K2	1	-	-	3
CO4	K2	1	-	-	3
CO5	K3	2	-	-	2

Program Co-ordinators

18/8/21

(Mr.S.Senthil kumar, A/P(ECE)

(Ms.K.K.Shandhosh shree,AP/ECE)

HOD/ECE

(Dr. B. PADMANABAN)

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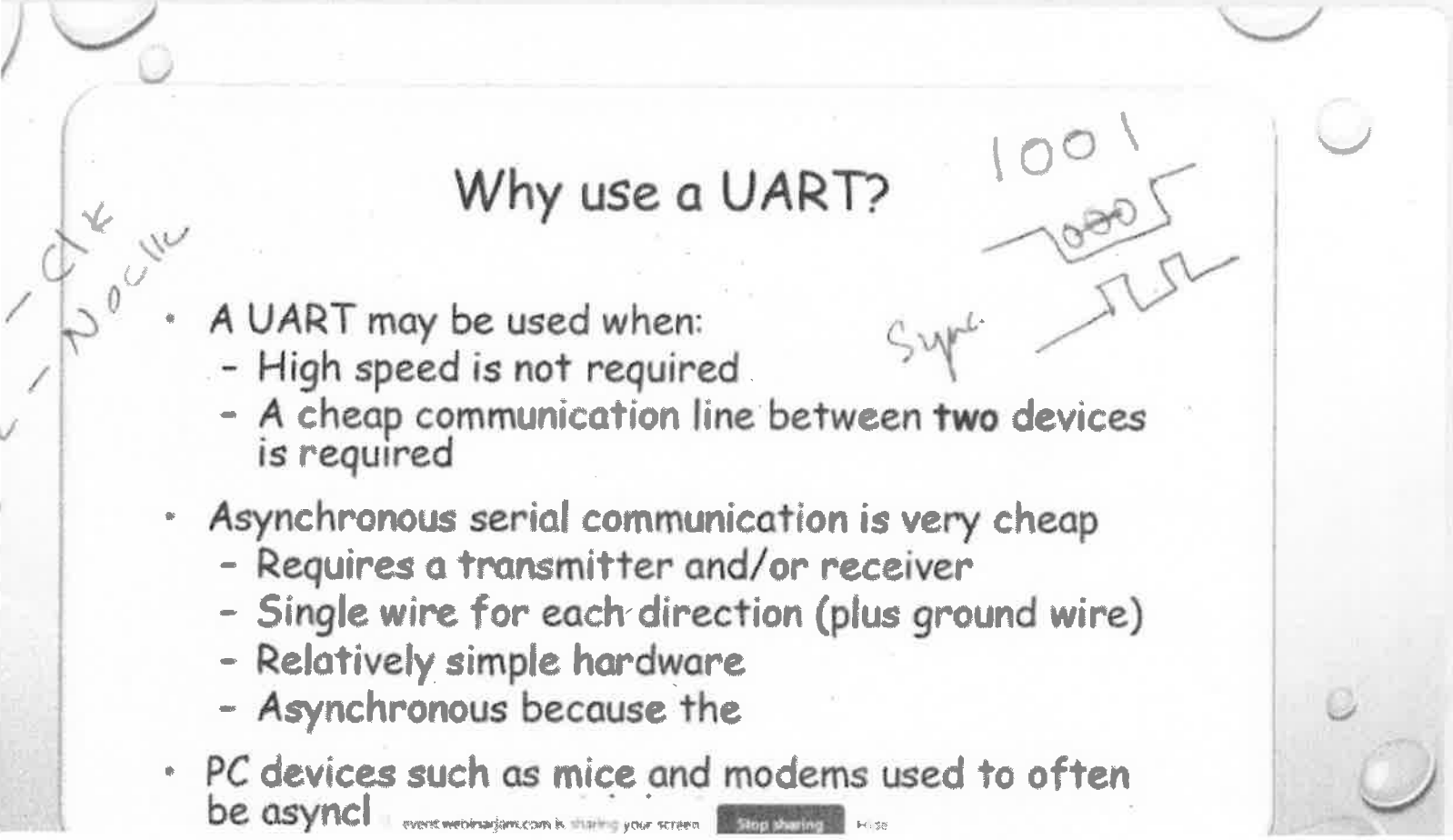

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54 live out of 384 registered

Attendees

SYED ALI S

VIJAYAKUMAR K

Chat

Sivasukitha S

Polls

K.REVATHI REVATHI

Offers

K. Venu Prakash

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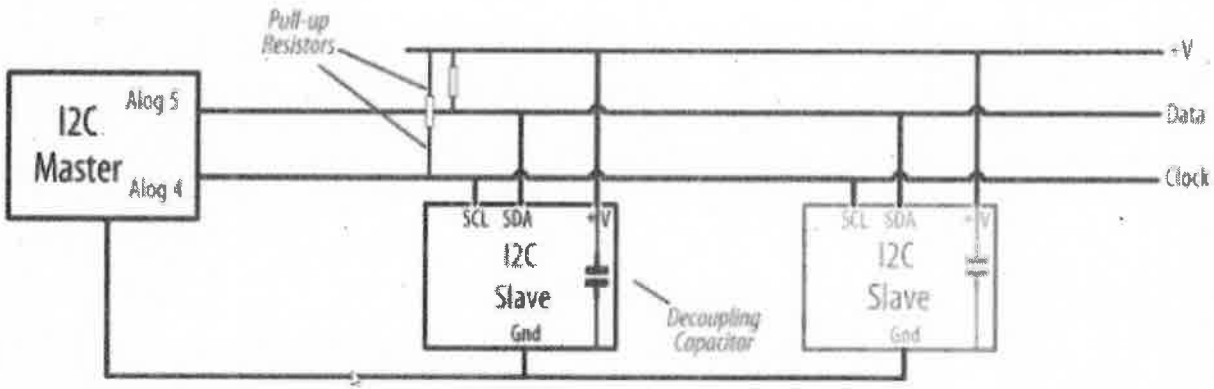
Analog pins 4 (SCL) and 5 (SDA) must be pulled up, and a common ground is needed



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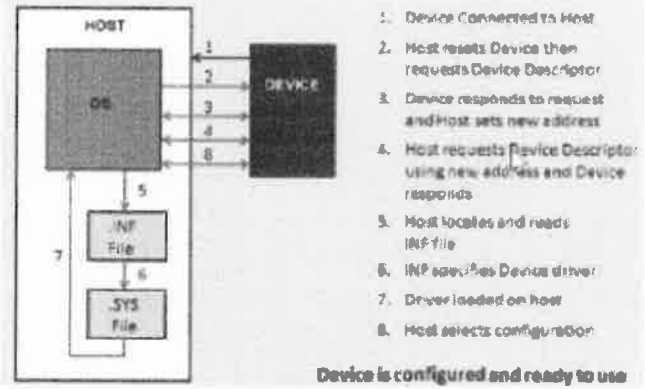
that provide information about the device), and assigning and loading a device driver. This entire process can occur in seconds. For more information see the USB Enumeration and Configuration section. When this process is complete, the device is ready to transfer data to the host. The flow chart of the general enumeration process is shown in Figure 2. Two files are affiliated with enumeration and the loading of a driver. They exist on the host side.

- **.INF** – A text file that contains all the information necessary to install a device, such as driver names and locations, Windows registry information, and driver version information.
- **.SYS** – The driver needed to communicate effectively with the USB device.

Figure 2. Sequence of Enumeration Events



After a device is enumerated, the host directs all traffic flow to the devices on the bus. Because of this, no device can transfer data without a request from the host controller.

4 USB Architec

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Dr. D.Devarajan M.E.,Ph.D , Assot.Prof./ECE/EGSPEC
to JAYADEVAN N.M
yes you can post it

JAYADEVAN N M private
Shall I post the questions now wait for the end of session Sir/

N.VIGNESH to JAYADEVAN N
Will discuss in Q & A

N.VIGNESH to Jim Hawkinson
Yes baud rate is very important 115200 is standard one used ir

Send to everybo...

Type your comment...

Activate Windows
Go to Settings to activate Windows.

11:39 AM 6/6/2021

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Old Nagore Road, Nagapattinam-611 002, Tamilnadu
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE OF PARTICIPATION

Mr/ Ms **A.RAJU** His/Her attended the FIVE DAYS VALUE ADDED COURSE ON on "ARM CORTEX M4 MICROCONTROLLER"as conducted by the Department Of Electronics And Communication Engineering.

06.03.2021-10.03.2021

COORDINATOR

HEAD OF DEPARTMENT(ECE)

B. MANIMARAN, M.E., Ph.D.
Professor & Head,
Department of Electronics and Communication Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.

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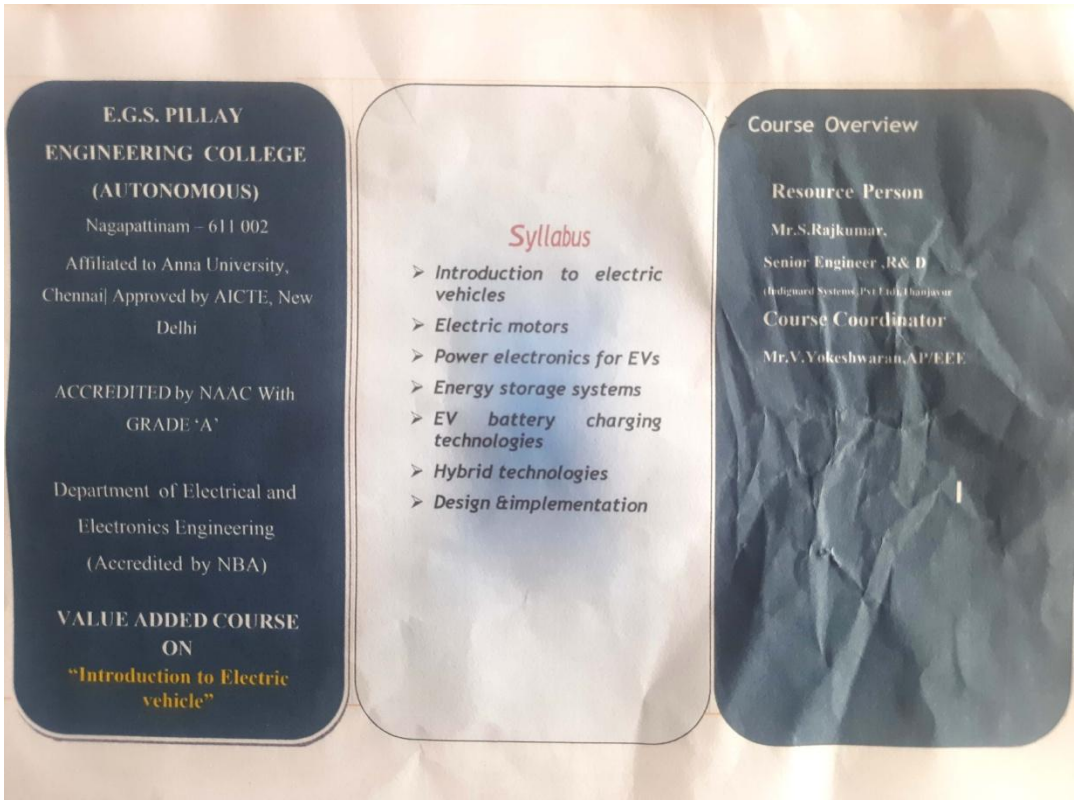
Dr.B.PADMANABAN, M.E., Ph.D.,
Professor & Head,
Department of Electronics and Communication Engineering,
E.G.S. Pillay Engineering College,
Nagapattinam - 611 002.



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

"Introduction to Electric vehicle"

Syllabus

- *Introduction to electric vehicles*
- *Electric motors*
- *Power electronics for EVs*
- *Energy storage systems*
- *EV battery charging technologies*
- *Hybrid technologies*
- *Design &implementation*

Course Overview

Resource Person

Mr.S.Rajkumar,

Senior Engineer ,R& D

(Indignard Systems Pvt Ltd, Thanjavur

Course Coordinator

Mr.V.Yokeshwaran,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 :01-03-2021 - 05-03-2021

(Five Days)

Time: 9.30 am to 4.30 pm

Requisition letter

From,

V.Yokeshwaran,
Assistant professor,EEE Dept
E.G.S.Pillay Engineering College,
Nagapattinam

To,

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

forwarded to Principal.
24/02/2021

Through proper channel,

Sub: requisition for conducting value added course on "Introduction to Electric vehicle"

Sir,

As part of the academic progress we have planned to conduct a five day value added course on "Introduction to Electric vehicles," from 01-03-2021 to 05-03-2021 for the III year students (2018-2022 batch) .I request you to grant us permission to utilize the laboratory and other facilities for conducting the programme in a successful manner.

Thanking you,

24-02-2021

Nagapattinam

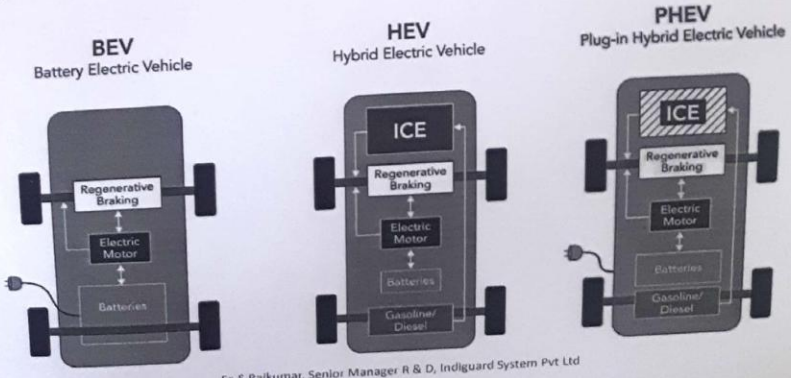
(V.Yokeshwaran)

Introduction to Electric vehicle

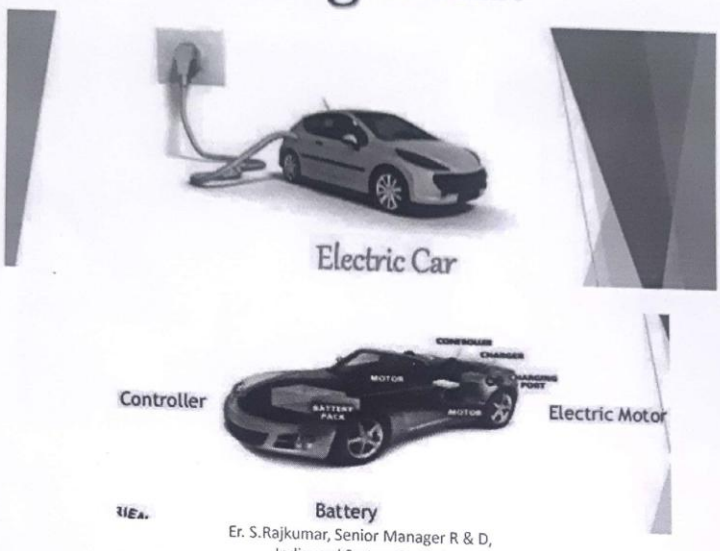
1. Electric Vehicle (EV) draws electrical energy from the electrical energy storage system (EESS) to generate traction power.
2. About 24.5 % of air pollution is due to IC Engines.
3. HEV use two types of energy storage devices(ESS)
    1. High specific energy (Wh/kg) - Main Energy Storage system (MES) -extended driving range (Eg battery, Fuel cell).
    2. High specific power (W/kg) - Rechargeable Energy Storage System (RESS) - Good acceleration (Eg Ultra Capacitor).

Types of EV's

Electric vehicle - Battery electric vehicles (BEV), hybrid electric vehicles (HEV), Plug-in hybrid electric vehicle (PHEV)



Electric vehicles and power management



Er. S.Rajkumar, Senior Manager R & D,
Indiguard System Pvt Ltd

Introduction to electric vehicle

1. Unlike vehicles with combustion engines, electric vehicles do not produce exhaust gases during operation. This alone makes electric vehicles more environmentally friendly than vehicles with conventional technology.
2. However, the electrical energy for charging the vehicle does have to be produced from renewable sources, e.g. from wind, solar, hydroelectric or biogas power plants.
3. By combining different drive types, the overall efficiency of the vehicle can be improved and fuel consumption can be reduced.

Er. S.Rajkumar, Senior Manager R & D,
Indiguard System Pvt Ltd

E.G.S.PILLAY ENGINEERING COLLEGE, NAGAPATTINAM

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CIRCULAR

INTERNAL COMMUNICATION

28.02.2021

All the final year students are instructed to attend the value added course on **"Electric Vehicle"** to be held between 01.03.2021 to 05.03.2021.

Venue: Seminar Hall

Time: 09.30 am – 04.30 pm

HOD/EEE

E.G.S. PILLAY ENGINNERING COLLEGE (Autonomous)

Department of Electrical Electronics & Engineering

Attendance

Sl.No	Register No	Student Name	1/3/2021	2/3/2021	3/3/2021
1	E18EER001	AAKASH M			
2	E18EER002	AKASH P			
3	E18EER003	AKASHRAJ A			
4	E18EER004	AMIRTHAVARSHINI P			
5	E18EER005	ARUNKUMAR R			
6	E18EER006	BALAGANESH S			
7	E18EER007	CHOZHAN M			
8	E18EER008	DEEPAK T			
9	E18EER009	DHARIK AHAMED S			
10	E18EER010	DHEEPAK RAM R			
11	E18EER011	IMRAN NAZIR N			
12	E18EER012	ISHWARYA P			
13	E18EER013	JAGATHEESH R			
14	E18EER014	KALAIYARASAN A			
15	E18EER015	KALIDOSS K			
16	E18EER016	KAMALESH K			
17	E18EER017	KEERTHIVASAN B			
18	E18EER018	KEVIN CHRISTOPHER A			
19	E18EER019	KIRUPAKARAN M			
20	E18EER020	KIRUTHIGA S			
21	E18EER021	KUMARAVEL M			
22	E18EER022	MADESH B			
23	E18EER023	MANIKANDAN G			
24	E18EER024	MURUGESH KANNAN C			
25	E18EER025	MUTHUDHINESH G			
26	E18EER026	PREM P			
27	E18EER027	PUYALARASAN R			
28	E18EER028	REEHAN B			
29	E18EER029	SADEESHKUMAR P			
30	E18EER032	SHIRAZUDEEN H			

31	E18EER033	SRIRAM M			
32	E18EER034	SUJITHVARMAN S			
33	E18EER035	SURIYAPRAKASH M			
34	E18EER036	TAMILSELVAN S			
35	E18EER037	VENKATESWARAN S			
36	E18EER038	VIGNESH P			
37	E18EER039	VIGNESH R			
38	E18EER041	VISHNU R			
39	E18EEL301	AAKASH D			
40	E18EEL302	AJAY M			
41	E18EEL303	ANANTHAKUMAR S			
42	E18EEL304	ARAVINTHKUMAR K			
43	E18EEL305	ASHIQ FARHAD.M			
44	E18EEL306	BHARATHIRAJA G			
45	E18EEL307	GOPIKRISHNAN P			
46	E18EEL308	HARIPRASAD .V			
47	E18EEL309	KARAN. K			
48	E18EEL310	KARTHIKEYAN R			
49	E18EEL311	KARTHIKRAJA .R			
50	E18EEL312	MANIVANNAN .K			
51	E18EEL313	MANOJ M			
52	E18EEL314	MOHAMMED ABBAS C			
53	E18EEL315	RAMKUMAR R			
54	E18EEL316	SATHISH S			
55	E18EEL317	TAMILPOONGULZHALY I			
56	E18EEL318	VIGNESH R			
57	E18EEL319	VIKNESHWARAN S			

Course Coordinator

HOD

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Department of Electrical and Electronics Engineering

IQAC

Value Added Course

On

Introduction to Electric vehicle

This is to certify that Mr. / ~~Ms~~. .....C. MOHAMMED ABBAS.....
..... has attended Five days Value Added Course on "**Introduction to Electric vehicle**" from 1-03-2021 to 5-03-2021 at E.G.S. Pillay Engineering College, Nagapattinam.

CONVENER

PRINCIPAL

E.G.S PILLAY ENGINEERING COLLEGE
(Autonomous)
NAGAPATTINAM – 611002

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Department of Electrical and Electronics Engineering

IQAC

Value Added Course

On

Introduction to Electric vehicle

This is to certify that Mr. / Ms. .....R.DHEEPAK RAM.....
..... has attended Five days Value Added Course on "Introduction to Electric vehicle" from 1-03-2021 to 5-03-2021 at E.G.S. Pillay Engineering College, Nagapattinam.

CONVENER

PRINCIPAL

E. G. S. Pillay Engineering College (Autonomous) Nagapattinam
Department of Electrical and Electronics Engineering

Feedback About Value Added Course

Timestamp	Email Address	PARTICIPANT REG. NUMBER	PARTICIPANT NAME	CLASS / YEAR OF STUDY	The objectives of the course were met	The outcomes of the course were achieved	The content of the course was well organized and	The course length/duration was appropriate to	The pace of the course was appropriate to	The speaker(s) was/were well prepared and able to answer	Please give some overall feedback about your speaker(s)	Please mark the overall rating of the course	What was most useful?
3/3/2021 16:21	[illegible]	E 18EEL310	R KARTHIKEYAN	III EEE	5	5	5	YES	5	YES	Good	5	It's
3/3/2021 16:21 18	[illegible]	E 18EER036	Balaganesh S	III EEE	2	4	5	NO	3	YES	Not bad	3	Topic
3/3/2021 16:22	[illegible]	E 18EEL307	GOPIKRISHNAN P	III EEE	3	4	4	YES	3	YES	Good	4	Types of ev
3/3/2021 16:23 21	[illegible]	E 18EER013	JAGATHEESH RAVIC	III EEE	5	5	5	YES	5	YES	V good	5	All of the topics
3/3/2021 16:30 34	[illegible]	E 18EEL316	R RAMKUMAR	III EEE	5	5	5	YES	5	YES	Good	5	The class based on EV
3/3/2021 16:38 10	[illegible]	E 18EER024	MURUGESH KANNAN	III EEE	5	4	5	YES	4	YES	Well Appreciated	5	Most useful
3/3/2021 16:42 42	[illegible]	E 18EER020	KIRUTHIGA S	III EEE	4	4	4	YES	4	YES	Content is clear	4	In this EV topic is very useful to me
3/3/2021 16:52 30	[illegible]	E 18EEP012	P ISHWARYA	III EEE	5	5	5	YES	5	YES	Course is useful to my future life	5	Electrical vehicle
3/3/2021 17:15 22	[illegible]	E 18EER004	P Amirthavarshini	III EEE	4	4	4	YES	4	YES	It was overall good and it was appreciable since the speakers allowed us even for the demo of ev	4	The test drive session
3/3/2021 17:22 09	[illegible]	E 18EER048	A Kevin Christopher	III EEE	3	5	4	YES	4	YES	Crisp and clear about the contents	4	Yes
3/3/2021 17:22 [illegible]	[illegible]	E 18EER011	Imran Nazir M	III EEE	4	5	5	NO	5	NO	No	4	Practical
3/3/2021 17:34 26	[illegible]	E 18EER023	Manikandan G	III EEE	5	5	5	YES	5	YES	Very good	5	Yes
3/3/2021 17:47 42	[illegible]	E 18EER041	ELECRTIC VEHICLES	III EEE	5	5	5	YES	5	YES	High	5	Yes
3/3/2021 17:49 44	[illegible]	E 18EER035	M krupakaran	III EEE	2	2	3	YES	3	NO	No	3	Electric bike
3/3/2021 17:59 20	[illegible]	E 18EER009	P Vignesh	III EEE	4	4	4	NO	3	NO	nice	3	yes
3/3/2021 17:54 41	[illegible]	E18EER032	Shirazudeen H	III EEE	4	3	3	YES	3	NO	Not bad	3	Content
3/3/2021 17:57 17	[illegible]	E 18EEL313	M Manoj	III EEE	4	3	3	YES	3	YES	good	3	yes

V. [illegible]
(COURSE COORDINATOR)

What was least useful?	Any other topics that you would like to add in the one credit course	Are there any ways you think the course could be improved?	Would you recommend this course to colleagues? Yes/No Why?	What other areas/skills would you like to develop/improve in the future related to what?(SUGGEST)	Any other comments?
Nil	Yes	Yes	Yes it's useful	Yes	No
Time	Electronics subjects	No	Yes because it will help in future	Project	No
All contents	Nil	Nil	Yes	Latest technology	Nil
None	More about charger and battery	Yes	No,I am a student	None	None
Nil	IC Manufacturing	Related Experiments /Models	Yes	Electrical Vechicles	Good
None	Battery	Improvement	Yes	Yes	No comments
No	Yes	No	Yes	Electrical related courses	No
Electrical vehicle(two wheeler)	Embedded systems	Practical classes	Yes	Communication skill and network analysis	No
Nothing like that	How to model a ev	The video session of modelling can be involved	Yes. Since ev are the future and its useful to know about it.	lot	No
Yes	Detailed about BMS	Yes if doing more projects regardingly	Yes	About the battery	Nil
Nothing	No	No	Yes	Marketing	No
Very useful	No	Ni	Yes	No	No comments
yes	electric vehicles	yes	yes	yes	no
Electric vehicles	Very useful	Yes	Yes	Yes	No
no	yes sir	I m improved	yes	skil	no
Ppt	Real Time example not worth	Pls add some real examples deassembly	Yes they want to know their field knowledge how they are going to use their knowledge so it is very useful	Add some software skills	This course is so useful
yes	yes	I m improved	yes	skill	no

V.

(COURSE COORDINATOR)

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

Nagapattinam

Department of Electrical and Electronics Engineering

Date : 05.03.2021

A Report of Value added Course on Electrical Vehicle for III Year EEE

Value added course on recent technologies was planned to conduct for the third year students. After much deliberation amongst the BoS Chairman/Hod and the value added courses coordinator along with class coordinator, it was decided to conduct Value added Course on Electrical Vehicle.

The class coordinator of III year EEE suggested the dates for the training program as 01st march to 03rd march 2021. He also appointed a course representative from the third year students, P.Amirthavarshini / III EEE.

The permission for the above mentioned program was received earlier by the value added courses coordinator from the HoD and Secretary of EGSPEC.

Since the regulations of EGSPEC allow the students to do value added courses on recent trends and employability, this course was opted which will provide more opportunities to get jobs in the field of Electrical Vehicle.

Students were actively engaged and participated in the Electrical Vehicle program. Every day activities were given to the students and the outputs shown by them showed their enthusiasm in acquiring new skills.

Based on the regulations of EGSPEC — R2017, three tests were conducted, First test was conducted on 02.03.2021 for 25 marks. Second test was conducted for 25 marks and the final test was conducted for 50 marks on 03.03.2021. All these tests were conducted with MCQ type of questions. The answers of students were evaluated and calculated the total marks of this training program.

This report was prepared by P.Amirthavarshini / III EEE.