

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

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

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

principal@egspec.org | enquires@egspec.org

Counselling Code : 3202



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

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Old Naagore Road, Thethi, Naagapattinam - 611002, Tamil Nadu. NIRF Engineering Ranking top 200 in India

## DEPARTMENT OF MCA

### VALUE ADDED COURSE ON "REDHAT LINUX"



**VENUE: ONLINE MODE**

**Date: 13.07.2020 to 19.07.2020**

**Google Meet Link <https://meet.google.com/cch-rmzq-ypo>**



#### Coordinator

1. Mrs. C.MALLIKA Assoc prof/MCA
2. Dr. P.ARUNKUMAR AP/MCA

#### Convener

Dr.J.VANITHA  
Professor/HOD/MCA

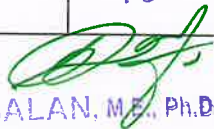
Dr. S. RAMABALAN, M.E., Ph.D.,  
PRINCIPAL

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

Nagapattinam (Dt) Tamil Nadu

**E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF MCA**  
**VALUE ADDED COURSE**  
**ON**  
**1704CA511 –“REDHAT LINUX”**

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From

Mrs. C..Mallika  
Associate Professor/MCA  
Department of MCA,  
E.G.S Pillay Engineering College,  
Nagapattinam.

To

Dr. J.Vanitha  
Professor/MCA/HOD  
Department of MCA,  
E.G.S Pillay Engineering College,  
Nagapattinam.

Respected Sir


Sub: Valued Added Course -Reg

We are happy to inform you that we planned to organize one week value added course title on "1704CA511 -REDHAT LINUX" for III Year Students from 13.07.2020 to 19.07.2020. Herewith we enclose name list, Session details. Kindly give permission for conducting value added course.

Thanking you

Yours truly

  
[Mrs. C.MALLIKA]

  
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## CIRCULAR

Dear Students


The Department of MCA is organizing a value added course on "1704CA511-REDHAT LINUX". We request all the students to attend the course the registration link given below,

**Date: 13.07.2020 to 19.07.2020**


**Google Meet Link <https://meet.google.com/cch-rmzq-ypo>**

  
COORDINATOR SIGNATURE

**Dr.C.MALLIKA**  
Associate Professor  
Department of MCA  
E.G.S. Pillay Engineering College  
Nagapattinam - 611 002.

  
HOD/MCA

**Dr. J.VANITHA, MCA., M.Phil., Ph.D.,**  
Professor / HOD  
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**E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)  
DEPARTMENT OF COMPUTER APPLICATIONS  
VALUE ADDED COURSE ON<sup>o</sup> 1704CA511 - "REDHAT LINUX"  
PROGRAM SCHEDULE  
VENUE: SOFT VIEW LAB**

Date: 13.07.2020 to 17.07.2020

Date/ Session	I Session 9.00 A.M. to 11.00 A.M	II Session 11.15 A.M. to 01.00 P.M	III Session 02.00 P.M. to 03.00 P.M.	IV Session 3.00 P.M. to 5.00 P.M.
13.07.2020	Intro to course a little UNIX and Linux background and history;	Getting started using UNIX and Linux commands	UNIX/Linux basics fundamentals	Lab session
14.07.2020	Files and operations on files	Data manipulation using filters	intro to bash shell programming	Lab session
15.07.2020	Continuing with bash shell programming -	More on UNIX/Linux utilities -	Intro to vi and EMACS	Lab session
16.07.2020	UNIX and IP networking	communication - Anatomy of UNIX	Linux processes - UNIX	Linux internals and services
17.07.2020	UNIX commands	Linux system administration	Lab session	Lab session
18.07.2020	Lab Activity	Lab Activity	Lab session	Lab session
19.07.2020	Lab Activity	Lab Activity	Lab session	Lab session

HOD/MCA

  
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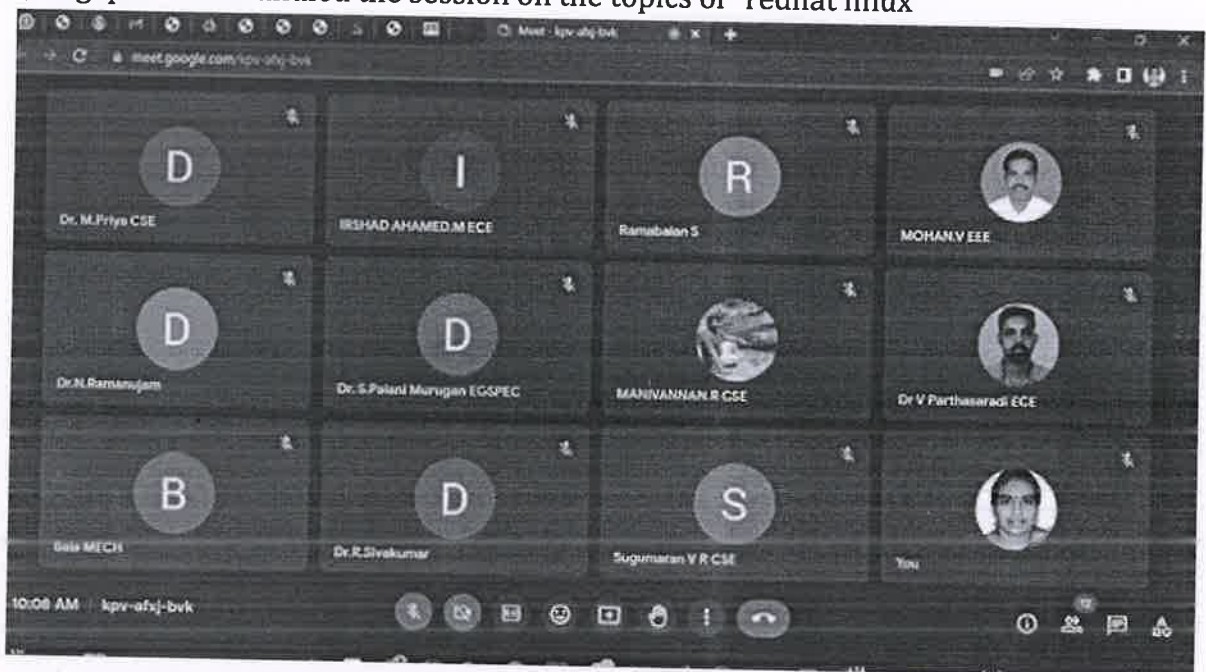


# DEPARTMENT OF MCA

## REPORT

### VALUE ADDED COURSE ON "REDHAT LINUX"

E.G.S.Pillay Engineering College [Autonomous] approved Value Added Course on "Redhat Linux" was conducted for MCA students of III year MCA on 13.07.2020 to 19.07.2020 and at soft view Laboratory. The resource person Dr. Selvamuthukumarn principal A.V.C College of Engineering Mr. S.Selvaganapathy AP/MCA, Programmer, EGSPEC, Nagapattinam handled the session on the topics of "redhat linux"



Information about basic concepts of Unix and Linux background and getting started using Unix and Linux commands imparted to students.

  
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**E.G.S.PILLAY ENGINEERING COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF COMPUTER APPLICATIONS**  
**VALUE ADDED COURSE ON "1704CA511 -REDHAT LINUX"**


**SYLLABUS**

**1704CA511 -REDHAT LINUX"**

**Course Outcomes**

- I. Explain some of the different distribution of Linux and the reason for open source.
- II. Use Linux commands to manage files and file systems.
- III. Create and execute BASH scripts.
- IV. Explain the structure of the Linux operating system.
- V. Establish user accounts and permissions.
- VI. Configure basic Linux network services.

<b>SYLLABUS</b>	<b>Hours (40)</b>
Intro to course; a little UNIX and Linux background and history; getting started using UNIX and Linux commands - UNIX/Linux basics – fundamentals	8 Hrs
Files and operations on files - Data manipulation using filters - intro to bash shell programming	8 Hrs
Continuing with bash shell programming - More on UNIX/Linux utilities - Intro to vi and EMACS	8 Hrs
UNIX and IP networking/communication - Anatomy of UNIX/Linux processes - UNIX/Linux internals and services	8 Hrs
UNIX/Linux system administration	8 Hrs

  
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# VALUE ADDED COURSE ON "1704CA511 -REDHAT LINUX"

## STUDENT ATTENDANCE

A	B	C	D	E	F	G	H	I	J	K	L	M
Timestamp	Total score	Student Name	Stude	Register Number	E-Mail	E-Mail [Feedback]						
2020/04/04 0:00 / 0		V.Aravinda		E18CAR001	Aravindamuthu20@gmail.com							
2020/04/04 0:00 / 0		T.Lakshmi Bharathi		E18CAR007	Pjlakshmi3398@gmail.com							
2020/04/04 12:24:50 PM GMT		T.Lakshmi Bharathi		E18CAR009	Aravindamuthu20@gmail.com							
2020/04/04 12:24:50 PM GMT		L.Nandhini		E18CAR012	Rrbp1998@gmail.com							
2020/04/04 12:24:50 PM GMT		E.Nivegeetha		E18CAR002	Elamparvathi2018@gmail.com							
2020/04/04 12:24:50 PM GMT		M.Saranraj		E18CAR010	Sivageetha398@gmail.com							
2020/04/04 12:24:50 PM GMT		A.Sathiyapriya		E18CAR014	Jafrin2018@gmail.com							
2020/04/04 12:24:50 PM GMT		S.Seetha		E18CAR012	Smartjani428@gmail.com							
2020/04/04 12:24:50 PM GMT		R.Sivasakthivel		E18CAR016	Pjlakshmi3398@gmail.com							
2020/04/04 12:24:50 PM GMT		M.Suvathika		E18CAR014	Nadhukalaif@gmail.com							
2020/04/04 12:24:50 PM GMT		V.Aravinda		E18CAR015	Nivegeetha1997@gmail.com							
2020/04/04 12:24:50 PM GMT		R.Brundha		E18CAR017	Saranraj2018@gmail.com							
2020/04/04 12:24:50 PM GMT		E.Elamparvathi		E18CAR024	Sathiya0097@gmail.com							
2020/04/04 12:24:50 PM GMT		S.Geetha		E18CAR018	Sivaseetha2595@gmail.com							
2020/04/04 12:24:50 PM GMT		J.Jafrin		E18CAR019	Sivavis9898@gmail.com							
2020/04/05 11:24:50 PM GMT		M.Janisha		E18CAR020	Suvathimathav1999@gmail.com							
2020/04/05 11:24:50 PM GMT		Siva Shangari A		E18CAR021								
2020/04/05 11:24:50 PM GMT		Sivaraj R		E18CAL341	sivashnaga@gmail.com							
2020/04/05 11:24:50 PM GMT		Sivaranjani S B		E18CAL342	jafrinjohnson1997@gmail.com							
2020/04/05 11:24:50 PM GMT		Sowmiya V		E18CAL343	smartjani428@gmail.com							
2020/04/05 11:24:50 PM GMT		Subalakshmi C		E18CAL344	tjlakshmi3398@gmail.com							
2020/04/05 11:24:50 PM GMT		Sujatha S		E18CAL345	nandhuthilaga12@gmail.com							
2020/04/05 11:24:50 PM GMT		Sujitha S		E18CAL346	nivegeetha97@gmail.com							
2020/04/05 11:24:50 PM GMT		Vaishali S		E18CAL347	saranrajsraj5@gmail.com							
2020/04/05 11:24:50 PM GMT		Monisha T		E18CAL329	sathiamugam1997@gmail.com							
2020/04/05 11:24:50 PM GMT		Mukesh Priya M		E18CAL330	sivageetha398@gmail.com							
2020/04/05 11:24:50 PM GMT		Nanthini K		E18CAL331	sivaavis9898@gmail.com							
2020/04/05 11:24:50 PM GMT		Narmadha S		E18CAL332	suvathimathav1999@gmail.com							
2020/04/05 11:24:50 PM GMT		Pavithra E		E18CAL333	adithyakathirvb@gmail.com							
2020/04/05 11:24:50 PM GMT		Puvanitha P		E18CAL334	aisuma001@gmail.com							
2020/04/05 11:24:50 PM GMT		Raja R		E18CAL335	akalya268@gmail.com							
2020/04/05 11:24:50 PM GMT		Rajeshwari V		E18CAL336	aravindhandharshini2512@gmail.com							
2020/04/05 11:24:50 PM GMT		Ramya V		E18CAL337	atchaya5577@gmail.com							
2020/04/05 11:24:50 PM GMT		Sandhya V		E18CAL338	rbharathi61937@gmail.com							
Blank Quiz												

  
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## Comments

The Linux operating system offers a multitude of commands, which can be overwhelming for beginners. This cheat sheet helps you get familiar with over 30 basic Linux command-line executables frequently used by developers. You'll find easy-to-learn shortcuts and code examples to help you find your way around the Linux command line.

With the Linux Commands Cheat Sheet, you'll learn basic commands for:

- Application and process management:
  - which
  - yum
- Console and output management, working with data sent to stdout or displayed in a terminal window:
  - cat
  - clear
  - echo
  - top
- Creating and exporting environment variables:
  - env
  - export
  - printenv
  - source
- Working with files and directories:
  - cd
  - cp
  - find
  - grep
  - ls
  - mkdir
  - more
  - mv
  - pwd
  - rm
  - tar
- Accessing command-line help documentation:

  
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- man
- Working with networks on and from a Linux computer:
  - curl
  - ip
  - netstat
  - ssh
  - wget
- Process management:
  - &&
  - kill
  - ps
- System control:
  - poweroff
  - restart
- User management:
  - whoami
  
- find
- sudo find <starting/directory> -name <file/directory name>
- Copy snippet
- Finds a file or directory by name.
- Example:
- The following command finds a file named **hostname** starting from the root ( / ) directory of the computer's filesystem. Note that the command starts with **sudo** in order to access files restricted to the root user:
- \$ sudo find / -name hostname
- 
- /proc/sys/kernel/hostname
- 
- /etc/hostname
- 
- /var/lib/SELinux/targeted/active/modules/100/hostname
- 
- /usr/bin/hostname
- 

  
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- /usr/lib64/gettext/hostname
- 
- /usr/share/licenses/hostname
- 
- /usr/share/doc/hostname
- 
- /usr/share/bash-completion/completions/hostname
- 
- /usr/share/selinux/targeted/default/active/modules/100/hostname
- 
- /usr/libexec/hostname
- Copy snippet
- grep
- grep<search\_expression><input>
- 
- \$ less -N ~/.bashrc
- 



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Self Engineering & Training Fee 200

### VALUE ADDED COURSE ON "1704CA511 -REDHAT LINUX"

Test total Mark -25

- The `dmccg` command
  - Shows user login logoff attempts
  - Shows the syslog file for info messages
  - kernel log messages
  - Shows the daemon log messages
- The command "`mkdev b 4 16`"
  - Will create a block device if user is root
  - Will create a block device for all users
  - Will create a FIFO if user is not root
  - None of the mentioned
- Which command is used to set terminal IO characteristic?
  - `ix`
  - `stty`
  - `rtty`
  - `stty`
- Which command is used to display the operating system name
  - `os`
  - `unix`
  - kernel
  - `uname`
- Which command is used to display the `unix` version
  - `uname -r`
  - `uname -n`
  - `uname -t`
  - kernel
- Which command is used to print a file
  - print
  - `pr`
  - `lpr`
  - none of the mentioned
- Using which command you find resource limits to the session?
  - `limit`

- `ulimit`
- `setrlimit`
- `getrlimit`

8. Which option of `ls` command used to view file inode number

- `-l`
- `-o`
- `-a`
- `-l`

9. Find `/ -name *` will

- List all files and directories recursively starting from `/`
- List a file named `* /`
- List all files in `/` directory
- List all files and directories in `/` directory

10. What is the linux mascot?

- Hat
- Gecko
- Elephant
- Penguin

11. How do you show all processes being run by a particular user?

- `cat /home/USERNAME/openprocess`
- `top -USERNAME`
- `cat /etc/passwd | grep USERNAME`
- `cat /etc/passwd | grep USERNAME`
- `top -U [USERNAME]`

12. GRUB stands for \_\_\_\_\_

- Grand Unified Boot Loader
- Gentoo's Regular Boot Loader
- Great Unix Boot Loader

D. GNU Released Unix Booter

13. Linux is based on ...

- Fedora
- Stackoverflow
- Ubuntu
- None of these
- Gentoo

14. How do you activate the `noclobber` shell option?

- `noclobber`
- `set -o noclobber`
- `set noclobber`

15. The Linux Kernel was written by?

- Brian Kernighan
- Dennis Ritchie
- Richard Stallman
- Linus Torvalds

16. What will show you all the subdirectories of the current directory?

- `ls`
- `ls`
- `cd`
- `cp`

17. Which directory contains all the files needed to boot the Linux system?

- `/etc`
- `/boot`
- `/bin`

18. `mkfs` is used to:

- create a filesystem on a device (such as a hard disk partition)
- format a floppy disk
- create a fast changing section on a hard disk
- create a named pipe (fifo) on a device

19. `mkfs` is used to:

- create a filesystem on a device (such as a hard disk partition)
- format a floppy disk
- create a fast changing section on a hard disk

  
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E.G.S. PILLAY ENGINEERING COLLEGE(AUTONOMOUS)					
NAGAPATTINAM					
DEPARTMENT OF COMPUTE R APPLICATIONS					
VALUE ADDED COURSE ON Rehat Linux					
ACADEMIC YEAR-2020-2021, III MCA STUDENTS V SEM BATCH (2018-2021)					
S.NO	REGISTER NO	STUDENT NAME	Test Mark1 (25)	Test Marks2 (25)	Final Mark (50)
1	E18CAR001	Aravinda V	24	24	48
2	E18CAR002	Brundha R	22	24	46
3	E18CAR003	Elamparvathi E	21	25	46
4	E18CAR004	Geetha S	23	23	46
5	E18CAR005	Jafrin J	23	25	48
6	E18CAR006	Janisha M	25	24	49
7	E18CAR007	Lakshmi Bharathi T	24	21	45
8	E18CAR008	Nandhini L	24	25	49
9	E18CAR009	Nivegeetha E	25	24	49
10	E18CAR010	Saranraj M	21	24	45
11	E18CAR011	Sathiyapriya A	20	25	45
12	E18CAR012	Seetha S	23	23	46
13	E18CAR013	Sivasakthivel R	25	23	48
14	E18CAR014	Suvathika M	25	21	46
15	E18CAL301	Adithya V	25	22	47
16	E18CAL302	Aiswarya T	21	21	42
17	E18CAL303	Akalya P	25	20	45
18	E18CAL304	Aravindhana V	24	25	49
19	E18CAL305	Atchaya G	24	25	49
20	E18CAL306	Bharathi R	25	24	49
21	E18CAL307	Bhuvaneshwari M	23	19	42
22	E18CAL308	Buvana M	23	25	48
23	E18CAL309	Deepa V	21	24	45
24	E18CAL310	Dhivagar G	22	24	46
25	E18CAL311	Dhivya R	21	23	44
26	E18CAL312	Divakar D	20	25	45
27	E18CAL313	Divya A	25	24	49
28	E18CAL314	Durgadevi M	25	21	46
29	E18CAL315	Gayathri J	24	25	49
30	E18CAL316	Gowri R	19	24	43
31	E18CAL317	Harini S	25	25	50
32	E18CAL318	Iswarya K	24	21	45

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## VALUE ADDED COURSE ON "1704CA511 -REDHAT LINUX"

### "CO-PO -PSO MAPPING"

#### Course Ourcomes

- I. Explain some of the different distribution of Linux and the reason for open source.
- II. Use Linux commands to manage files and file systems.
- III. Create and execute BASH scripts.
- IV. Explain the structure of the Linux operating system.
- V. Establish user accounts and permissions.
- VI. Configure basic Linux network services.

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	PO11	PO12	PSO 1	PSO 2
C01	-	-	3	3	3	-	-	-	-	2	-	2	3	-
C02	-	-	3	3	3	-	-	-	-	2	-	2	3	-
C03	-	-	3	3	3	-	-	-	-	2	-	2	3	-
C04	-	-	3	3	3	-	-	-	-	2	-	2	3	-
C05	-	-	3	3	3	-	-	-	-	2	-	2	3	-
C06	-	-	3	3	3	-	-	-	-	2	-	2	3	-
Average	-	-	3	3	3	-	-	-	-	2	-	2	3	-

1. Slight (Low) 2. Moderate (Medium) 3. Substantial (High) "-No Correlation

  
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# VALUE ADDED COURSE ON "1704CA511 - REDHAT LINUX" FEEDBACK FORM

Untitled form

Questions Responses Settings

What is your overall rating of the course?

Excellent

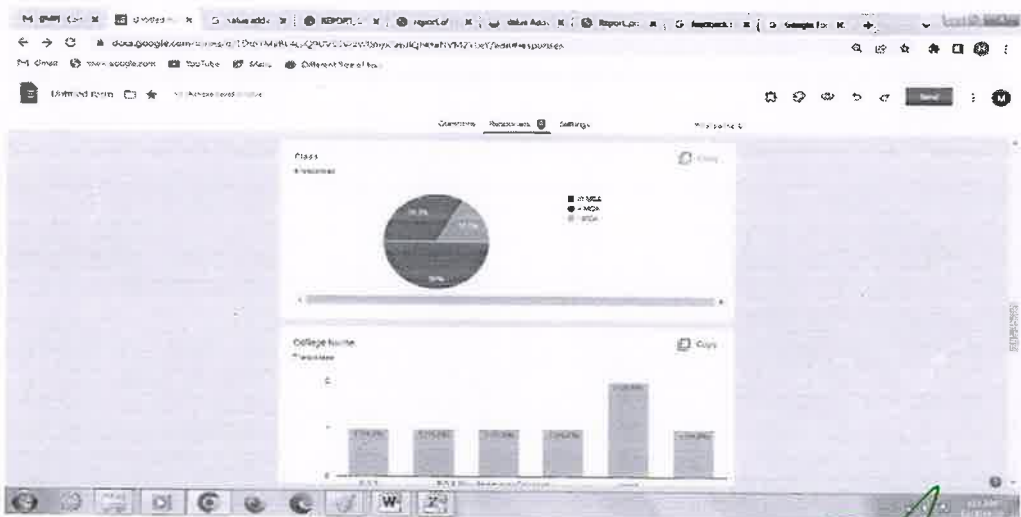
Very Good

Good

Poor

1 2 3 4 5

Poor Excellent





*S. Ramabalan*  
**Dr. S. RAMABALAN, M.E., Ph.D.,**  
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## VALUE ADDED COURSE ON "1704CA511 -REDHAT LINUX"

Registration -Google Form

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

DEPARTMENT OF MCA Organize VALUE ADDED COURSE ON 1704CA511 -"REDHAT  
LINUX" 13.07.2020 to 19.07.2020

 mallika@egspec.org (not shared) [Switch account](#) 

\* Required

Student Name \*

Your answer

Register Number \*

Your answer

E-Mail \*

Your answer

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## DEPARTMENT OF MCA CERTIFICATE

This is certify that Ms Sasireha S EI9CAR009 of has Attended Value Added Course on REDHAT UNIX from 13.07.2020 to 19.07.2020 and completed the course successfully.

  
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PRINCIPAL

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Courseing Code - 3806 Old Nagore Road, Thethi, Nagapattinam - 611002, Tamil Nadu NIRP Engineering Ranking top 200 in India

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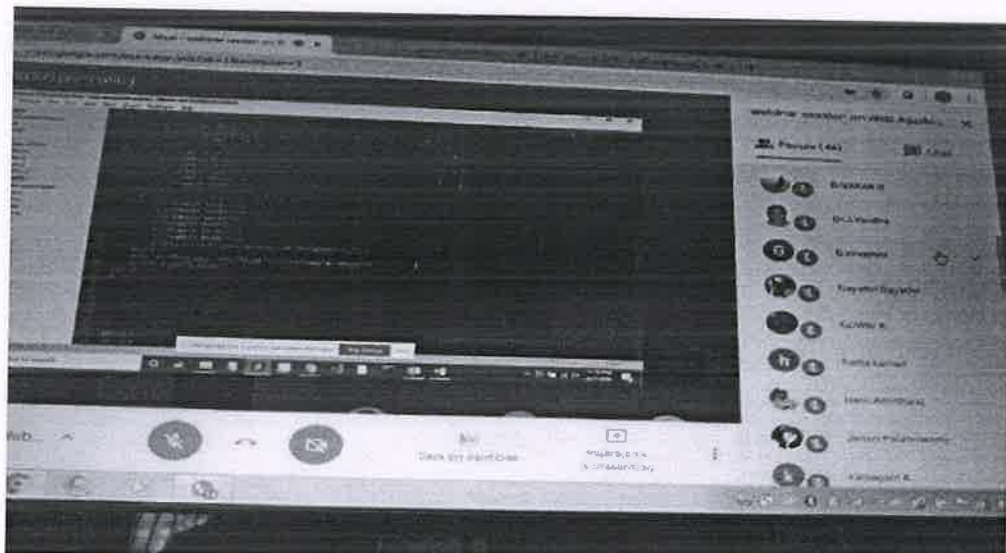
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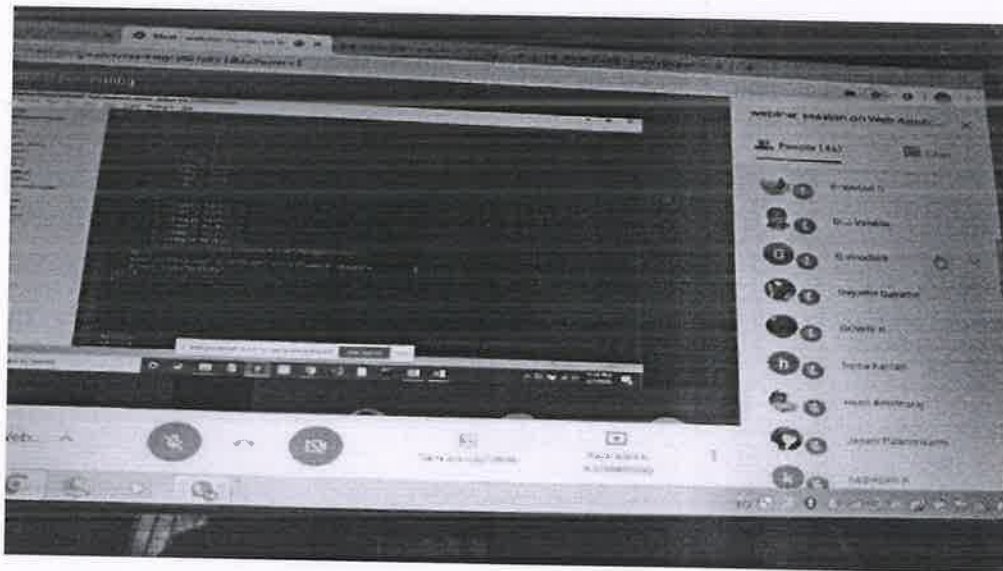
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Sample photo



  
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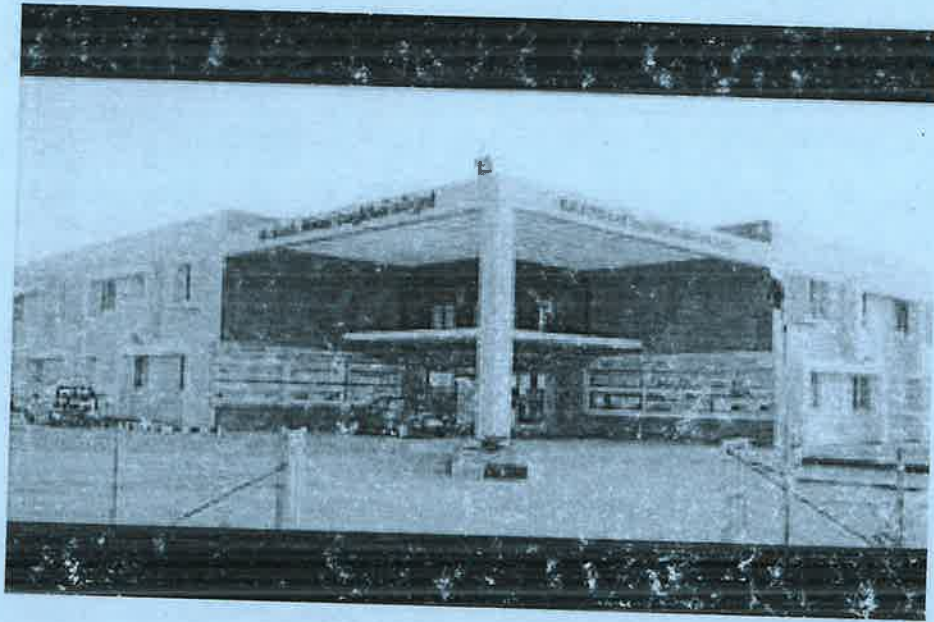
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## DEPARTMENT OF MCA

### VALUE ADDED COURSE ON "ADVANCED ANGULAR JS"



Date: 28.01.2021 to 01.02.2021

**Coordinator**


Mrs. A.Hema AP/MCA

Mr. S.Selvaganapathy AP/MCA

**Convener**

Dr. J.Vanitha

Professor /MCA/HOD

  
Dr. S. RAJU (Dr.) M.E., Ph.D.,  
The E.G.S. Pillay Engineering College,  
Thethi, Nagaapattinam - 611 002,  
Nagapattinam, Tamil Nadu.

**E.G.S. PILLAY ENGINEERING COLLEGE(AUTONOMOUS)**  
**DEPARTMENT OF MCA**  
**VALUE ADDED COURSE ON "ADVANCED -ANGULAR JS"**

S.No	Content	Page No
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Dr. S. RAMESH BABU, M.E., Ph.D.,  
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Thethi, Nagore - 611 002.  
Nagapattinam (Dt) Tamil Nadu.

From

Mrs. A.Hema  
Assistant Professor/MCA  
Department of MCA,  
E.G.S Pillay Engineering College,  
Nagapattinam.

To

Dr. J.Vanitha  
Professor/MCA/HOD  
Department of MCA,  
E.G.S Pillay Engineering College,  
Nagapattinam.

Respected Sir

Sub: Permission for conducting Value added course –Reg

We are happy to inform you that we planned to organize one week value added course title on "ADVANCED ANGULAR JS" for II MCA Students from 28.01.2021 to 01.02.2021. Mr. Vetriselvan Programmer EGSPEC, Nagapattinam Handled the session here with we enclosed the student Name List, Session Details, Kindly give the permission to conduction the value added course

Thanking you

Yours truly

[Mrs. A.Hema]

**A. HEMA**

Assistant Professor

Department of MCA

E.G.S. Pillay Engineering College

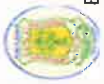
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E-mail: enquires@egspec.org

Website : www.egspec.org

**Value Added course On Angular JS**

**28.01.2021 TO 01.02.2021**

by  
**DEPARTMENT OF MCA**



**CONVENER**

**Dr. J. Vanitha, MCA., M.Phil., Ph.D**  
**Professor/HOD/MCA**

**CO-ORDINATOR**

1. Mrs.A.Hema AP/MCA
2. Mr.S.Selvagunapathy AP/MCA

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

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

**ABOUT THE INSTITUTION**

E G S Pillay Engineering College is one of the pioneering non - grant engineering Colleges in the State. It was established by the E G S Pillay & Sons Educational & Charitable Trust, Nagapattinam in the year 1995 with the sanction of the Government of Tamilnadu, approval of the All India Council for Technical Education, New Delhi and affiliation to Bharathidasan University, Tiruchirappalli. Its courses are affiliated to Anna University, Chennai from 2002 and the degrees are awarded by Anna University, as per the Government Orders. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non - grant engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. The College has earned the reputation of being one of the most preferred colleges by the students and parents all these years. Known for its excellent infrastructure and facilities for learning, the outstanding non-grant engineering college has registered impressive performance consistently. A gate-way to success, the college has now set on long-range planning to enlarge and enrich its programs and activities to empower the youth who aspire to become successful Engineers, Scientists and Managers. The college approved by AICTE-New Delhi, affiliated to Anna University-Chennai, recognized by UGC Act 2(f) & 12(E) and accredited by NAAC with 'A' Grade and NBA for three Departments (B.E-CSE/EEE/MECH).

**DEPARTMENT PROFILE**

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

**OBJECTIVES**

- Explain some of the different distribution of Linux and the reason for open source.
- Use Linux commands to manage files and file systems.
- Create and execute BASH scripts.
- Explain the structure of the Linux operating system.
- Establish user accounts and permissions.
- Configure basic Linux network services.

**ORGANIZING COMMITTEE**

**CHIEF PATRONS**

**Mrs.Jothimani G.S. Pillay,**  
**Chairman.**

**Shri S.Senthikumar**  
**Secretary-EGSPGOI.**

**Shri S.Sankar Ganesh**  
**JointSecretary- EGSPGOI**

**Dr. Shri S. Paramesvarn**  
**Advisor- EGSPGOI**

**PATRONS**

**Dr. S. Ramabalan, M.E., Ph.D.,**  
**Principal.**

**Dr. V.Mohan, M.E., Ph.D.,**  
**Academic Director.**

**Dr. M.Chinnadurai, M.E., Ph.D**  
**Professor/CSE/COE**

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

**DEPARTMENT OF MCA**

**CIRCULAR**

Date 27.01.2021

It is proposed to conduct a value added course on "ADVANCED ANGULAR JS" from 28.01.2021 to 01.02.2021 . for second year students. There is no registration fee. Certificates will be provided for those who attend the course.



**Coordinator**

**A. HEMA**  
Assistant Professor  
Department of MCA  
E.G.S. Pillay Engineering College  
Nagapattinam - 611 002.



**HOD/MCA**

**Dr. J. VANITHA, MCA., M.Phil., Ph.D.,**  
Professor / HOD  
Department of MCA  
E.G.S. Pillay Engineering College, (Autonomous)  
Nagapattinam.



**Principal**



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

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

## Session Details:

Date / Session	I Session	II Session	III Session	IV Session
28.01.2021	Inaugural Function	AngularJS Introduction, Expressions, features, Architecture	Angular Js Fundamentals	AngularJS Hello World: Your First Program
29.01.2021	AngularJS Controller	How to build a basic Controller using Angular JS	Directives: Data Binding	Creating Program
30.01.2021	Data Binding	AngularJs \$http: Methods	Web page Creation using Angular JS	Case Study
31.01.2021	Services:	AngularJS SQL	Theory and Practical TestI-(25)	Theory and Practical Test II-(25)
01.02.2021	AngularJS API:	Case Study	Theory and Practical TestIII-(50)	Feed back

**Dr. J. VANITHA**  
 Head of the Department  
 Department of MCA  
 E.G.S. Pillay Engineering College  
 Nagapattinam - 611 002.

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

# Summary Report on “Angular js Programming”

Department of MCA organized a value added course on Angular js Programming from 28<sup>th</sup> January to 1<sup>st</sup> February 2021. Mr. Vetrivelvan Programmer from E.G.S.Pillay Engineering College conducted the course. Total 8 students from MCA were trained in the field of web technology and its related field angular js. The students learn important concepts regarding Angular js Programming, web based project development, etc. The course would be very much useful from placement point of view since many IT companies are demanding students with advanced technology skill set. Prof. A.Hema and Prof.Mr. S.Selvaganapathy was coordinated it. The students gave positive feedback.



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**Module I**

Introduction to AngularJS-AngularJS Expressions- Numbers- Strings- Objects-Arrays- Expressions using {{ }} and ng-bind

**Module II**

Creating a module- adding a controller & directive-myApp.js-myCtrl.js-Loading library-Directives- Data Binding-ng-model directives, custom directives

**Module III**

2 way binding-Validating- User Input- Status- Data Binding: Synchronization between model and view

**Module IV**

AngularJS Controllers-ng-controller-Controller Methods-External Files-Scope: \$scope-understanding the scope--\$rootScope-Filters-Adding filters to directives-Currency filter-Array filter-Custom filters

**Module V**

AngularJS SQL- Fetching Data-Cross site HTTP Requests-Server Code-DOM: ng-disabled directive-ng-show directive- ng-hide directive-Events: Working with events, Mouse events, ng-click-Toggle-\$event object-AngularJS API: Comparing objects-Iterating objects- Converting data

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

NAGAPATTINAM

DEPARTMENT OF MCA

VALUE ADDED COURSE ON "ADVANCED ANGULAR JS"

ACADEMIC YEAR-2019-2020, II MCA STUDENTS III SEM BATCH (2019-2022)

S.NO	REGISTER NO	STUDENT NAME	28.01.2021	29.01.2021	30.01.2021	31.01.2021	01.02.2021
1	E19CAR002	Gayathri K	Granthik	Granthik	Granthik	Granthik	Granthik
2	E19CAR003	Kalaiselvi T	Kalaisi	Kalaisi	Kalaisi	Kalaisi	AB
3	E19CAR004	Navaneethakrishnan R	Navamk.R	AB	Navamk.R	Navamk.R	Navamk.R
4	E19CAR005	Raguvaran R	R.Pagum	R.Pagum	R.Pagum	R.Pagum	R.Pagum
5	E19CAR006	Ranjithkumar R	Ranjithk.R	Ranjithk.R	Ranjithk.R	Ranjithk.R	Ranjithk.R
6	E19CAR007	Sanakaradevi R	Sanam.R	AB	Sanam.R	Sanam.R	Sanam.R
7	E19CAR008	Sasikumar D	Sasim.D	Sasim.D	Sasim.D	Sasim.D	Sasim.D
8	E19CAR009	Sasireha S	S.Sasireha	S.Sasireha	S.Sasireha	S.Sasireha	S.Sasireha

CO-Ordinator Signature

**A. HEMA**

Assistant Professor

Department of MCA

E.G.S. Pillay Engineering College

Nagapattinam - 611 002.

HOD/MCA


Dr. J. VANITHA, MCA, M.Phil., Ph.D.,

Professor / HOD

Department of MCA

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

Nagapattinam.

  
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```
<script src="myCtrl.js"></script>
```

# AngularJS Controllers

AngularJS controllers **control the data** of AngularJS applications.

AngularJS controllers are regular **JavaScript Objects**.

## AngularJS Controllers

AngularJS applications are controlled by controllers.

The **ng-controller** directive defines the application controller.

A controller is a **JavaScript Object**, created by a standard JavaScript **object constructor**.

## AngularJS Example

```
<div ng-app="myApp" ng-controller="myCtrl">
```

```
  First Name: <input type="text" ng-model="firstName"><br>
```

```
  Last Name: <input type="text" ng-model="lastName"><br>
```

```
<br>
```

```
  Full Name: {{firstName + " " + lastName}}
```

```
</div>
```

```
<script>
```

```
var app = angular.module('myApp', []);
```

```
app.controller('myCtrl', function($scope) {
```

```
  $scope.firstName = "John";
```


```
  $scope.lastName = "Doe";
```

```
});
```

```
</script>
```

```
</body>
```

```
</html>
```

  
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# AngularJS Modules

An AngularJS module defines an application.

The module is a container for the different parts of an application.

The module is a container for the application controllers.

Controllers always belong to a module.

## Creating a Module

A module is created by using the AngularJS function `angular.module`

```
<div ng-app="myApp">...</div>

<script>

var app = angular.module("myApp", []);

</script>
```

The "myApp" parameter refers to an HTML element in which the application will run.

Now you can add controllers, directives, filters, and more, to your AngularJS application.

## Adding a Controller

Add a controller to your application, and refer to the controller with the `ng-controller` directive:


### Example

```
<div ng-app="myApp" ng-controller="myCtrl">
  {{ firstName + " " + lastName }}
</div>

<script>

var app = angular.module("myApp", []);

app.controller("myCtrl", function($scope) {
  $scope.firstName = "John";
  $scope.lastName = "Doe";
});
```

  
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## Module I

Introduction to AngularJS-AngularJS Expressions- Numbers- Strings- Objects-Arrays- Expressions using {{ }} and ng-bind

### What is AngularJS Expressions?

The AngularJS expressions are expressed as {{ }} that associates data to HTML. It displays the data written inside the braces. The expressions are the JavaScript code snippets located inside the bindings.

### AngularJSNumbers

e.g.


```
<!DOCTYPE html>
<html>
<script src= "http://ajax.googleapis.com/ajax/libs/angularjs/1.3.14/angular.min.js"></script>
<body>
<div ng-app="" ng-init="salary=10000; month=4">
/* In case of ng-bind use <p>Total Salary: <span ng-bind="salary* month"></span></p> */
<p>Total salary: {{salary * month }}</p>
</div>
</body>
</html>
```

You can write expressions wherever you like, AngularJS will simply resolve the expression and return the result.

Example: Let AngularJS change the value of CSS properties.

Change the color of the input box below, by changing its value:

```
lightblue
<div ng-app="" ng-init="myCol='lightblue'">
<input style="background-color:{{myCol}}" ng-model="myCol">
</div>
```

  
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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS  
VALUE ADDED COURSE  
**ADVANCED ANGULAR JS**  
II MCA\ III Semester [2019-2022]  
Test I-25 Marks

Q 1. What are various possible prefixes such as 'ng-' using which Angular directives (for example, ng-app) can be defined?

- A. 'ng-', 'data-ng-', 'ng:'
- B. 'ng-'
- C. 'ng-', 'data-ng-', 'ng:', 'x-ng-'
- D. 'ng-', 'data-ng-', 'x-ng-'

Q 2 - Which of the following is true about AngularJS expressions?

- A - Expressions are used to bind application data to html.
- B - Expressions are written inside double braces like {{ expression}}.
- C - Expressions behave in same way as ng-bind directives.
- D - All of the above.

Q 3 - AngularJS expressions are written using.

- A - double braces like {{ expression}}
- B - single braces like {expression}
- C - small bracket like (expression)
- D - capital bracket like [expression]

Q 4 - angular.module is primarily used to create application module.

- A - true
- B - false

Q 5 - AngularJS needs data in JSON format to populate its model.

- A - true
- B - false

Q 6 - factory method is used to define a factory which can later be used to create services as and when required.


- A - true
- B - false

Q 7 - constants are used to pass values at config phase.

- A - true
- B - false

Q 8 - AngularJS applications can run on all major browsers and smart phones including Android and iOS based phones/tablets.

- A - true
- B - false

  
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21. At framework level, how does Angular retrieve the matching elements for processing?

- A. Makes use of jqLite(element) function.
- B. If jQuery is used, jQuery(element) is used by way of assigning jQuery to jqLite variable
- C. Both of the above
- D. None of the above

Ans: C

22. Directives can be applied to which all element type?

- A. Element
- B. Attribute
- C. Comment
- D. All of the above

Ans: D

23. angular.module is primarily used to create application module.

- A. true
- B. false

Ans: A

24. Which API need to be invoked on the rootScope service to get the child scopes?

- A. new
- B. \$new

Ans: B

25. Which angular module is loaded by default?

- A. ng
- B. ng-app

Ans: A

26. Which angular function is used to wrap a raw DOM element or HTML string as a jQuery element?

- A. angular.element
- B. angular.bootstrap

Ans: A

27. Can '\$scope' be injected while creating service using 'factory' method?

- A. Yes
- B. No

Ans: B

28. AngularJS needs data in JSON format to populate its model.

- A. true
- B. false

Ans: A

29. Scope act as glue between controller and view.


- A. true
- B. false

Ans: A

30. AngularJS 1.0 was released in 2013.

- A. True
- B. False

Ans: B

  
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- A. Application Module  B. constant  C. value  D. factory
19. Which of the following is true about orderBy filter?
- A. orderBy filter orders the array based on provided criteria
- B. orderBy filter is used to filter the array to a subset of it based on provided criteria
- C. Both of the above
- D. None of the above
20. Which of the following is true about ng-app directive?
- A. ng-app directive defines and links an AngularJS application to HTML
- B. ng-app directive indicates the start of the application
- C. Both of the above
- D. None of the above
21. What angular function is used to manually start up an angular application?
- A. angular.bootstrap  B. angular.element  C. angular.copy  D. None of the above
22. Which is the right format for calling a ng-bind function?
- A. ng-bind  B. ng:bind  C. ng\_bind  D. All the Above
23. What is the purpose of angular.module in AngularJS?
- A. It creates an application module  B. It invokes an application module
- C. It destroys an application module  D. None
24. What are various possible ways in which angular application can be initialized?
- A. On an element, one could either put simply the attribute such as (ng-app, data-ng-app, ng:app, x-ng-app)
- B. Put the named attribute such as (ng-app='demoApp')
- C. Both of the above  D. None
25. What is jqLite?
- A. AngularJS built-in subset of jQuery  B. AngularJS built-in superset of jQuery
- C. KnockoutJS built-in subset of jQuery  D. KnockoutJS built-in superset of jQu



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**DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS**  
**VALUE ADDED COURSE**  
**ADVANCED ANGULAR JS**  
**II MCA / III Semester [2019-2022]**  
**TEST II-25 Marks**

1. AngularJS is based on the \_\_\_\_\_ pattern
  - A. VMC
  - B. MVC
  - C. MCV
  - D. CVM
2. What is Angular Js?
  - A. Library
  - B. Framework
  - C. Plugin
  - D. Browser Extension
3. AngularJS applications are a mix of \_\_\_\_\_
  - A. HTML and PHP
  - B. HTML and CrossScript
  - C. HTML and AngularScript
  - D. HTML and JavaScript
4. Who is sometimes called as Father of AngularJS?
  - A. Brad Green
  - B. Igor Minor
  - C. Misko Hevery
  - D. Brian Ford
5. How to include HTML content into another HTML?
  - A. Server Side push
  - B. Use of CommetD
  - C. Use of Polling
  - D. Use of include
6. What is MVC (Mode View Controller)?
  - A. It is a services for Java built function
  - B. It is marker for DOM elements
  - C. It is a software design pattern for developing web applications
  - D. None of the above
7. Which of the following is true about AngularJS service?
  - A. Services are JavaScript functions
  - B. Services are responsible to do specific tasks only
  - C. Inbuilt services are always prefixed with \$ symbol
  - D. All of the above
8. Which of the following is valid for AngularJS module
  - A. `var app = angular.module(["myApp", "param"]);`
  - B. `var app = angular.module("myApp", []);`



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D - All of the above.

Q 17 - AngularJS expressions are written using.

A - double braces like {{ expression }}

B - single braces like {expression}

C - small bracket like (expression)

D - capital bracket like [expression]

Q 18 - angular.module is primarily used to create application module.

A - true

B - false

Q 19- AngularJS needs data in JSON format to populate its model.

A - true

B - false

Q 20 - factory method is used to define a factory which can later be used to create services as and when required.

A - true

B - false

Q 21 - constants are used to pass values at config phase.

A - true

B - false

Q 22 - AngularJS applications can run on all major browsers and smart phones including Android and iOS based phones/tablets.

A - true

B - false

Q 23 - currency filter is applied to an expression using pipe character.

A - true

B - false

Q 24 - novalidate with a form declaration disables any browser specific validation.

A - false

B - true

Q25. AngularJS applications are a mix of \_\_\_\_\_

- A. HTML and PHP
- B. HTML and CrossScript
- C. HTML and AngularScript
- D. HTML and JavaScript



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## AngularJS Objective type Questions and Answers List

1. AngularJS is a library?

- A. True
- B. False

Ans: B

2. Who is sometimes called as Father of AngularJS?

- A. Brad Green
- B. Igor Minor
- C. Misko Hevery
- D. Brian Ford

Ans: C

3. Which of the following is true about ng-init directive?

- A. ng-init directive initializes an AngularJS Application data.
- B. ng-init directive is used to put values to the variables to be used in the application.
- C. Both of the above.
- D. None of the above.

Ans: C

4. Which of the following directive is used to initialize an angular app?

- A. ng-model
- B. ng-app
- C. ng-controller
- D. None of the above

Ans: B

5. ng-app directive defines and links an AngularJS application to HTML.

- A. false
- B. true

Ans: B

6. AngularJS supports two-way data binding?

- A. True
- B. False

Ans: A

7. AngularJS expressions are written using.

- A. double braces like {{ expression }}
- B. single braces like {expression}
- C. small bracket like (expression)
- D. capital bracket like [expression]

Ans: A

8. AngularJS is an MVC based framework?

- A. True
- B. False

Ans: A

9. AngularJS bootstraps itself during config phase.


- A. true
- B. false

Ans: A

10. Angular initializes based upon which of the following scenario?

- A. DOMContentLoaded event happens
- B. document.readyState is set to complete
- C. Both of the above
- D. None of the above

Ans: C

  
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II MCA [2019-2022]III Semester					
ADVANCED ANGULAR JS:- Mark details					
S.No	Reg.No	Student Name	Test I[25]	Test II[25]	Final Evaluation[50]
1	E19CAR002	GAYATHRI K	25	24	48
2	E19CAR003	KALAISELVI T	24	25	47
3	E19CAR004	NAVANEETHAKRISHANAN R	23	22	46
4	E19CAR005	RAGUVARAN R	24	23	47
5	E19CAR006	RANJITH KUMAR	22	23	44
6	E19CAR007	SANKARADEVI R	24	23	48
7	E19CAR008	SASI KUMAR D	23	22	45
8	E19CAR009	SASIREHA S	24	25	49

  
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## VALUE ADDED COURSE ON "ADVANCED ANGULAR JS ANGULAR JS"

### CO-PO -PSO MAPPING

- i. Clearly understand the platform design choices that led to Node.js choosing an event loop and what this means for applications built on that foundation.
- ii. Understand the unique trade-offs present in event-driven programming.
- iii. Create Node.js modules and express code modularity in an application.
- iv. Understand the core flow control patterns in Node.js and know when it is appropriate to use callbacks, event emitters or streams.

Course Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
CO1	2	-	3	3		-	-	3		2	3	2		2
CO2	2	-	3	3		-	-	3		2	3	2		2
CO3	2	-	3	3		-	-	3		2	3	2		2
CO4	2	-	3	3		-	-	3		2	3	2		2
Average	2	-	3	3		-	-	3		2	3	2		2

1. Slight (Low) 2. Moderate (Medium) 3. Substantial (High) "No Correlation

  
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**II MCA [2019-2022]**

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Dear Student,

You are required to give your feedback on the following aspects. Please tick in the respective column.

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2	Skill development	✓				
3	Motivation	✓				
4	Regularity and punctuality of teacher	✓				
5	Coverage of syllabus	✓				
6	Interaction		✓			
7	Individual attention		✓			
8	Outcome		✓			
9	Other suggestions					

1. Satisfactory

2. Fair

3. Good

4. Very Good

5. Excellent

  
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6	Interaction		✓			
7	Individual attention	✓				
8	Outcome		✓			
9	Other suggestions					


1. Satisfactory

2. Fair

3. Good

4. Very Good

5. Excellent

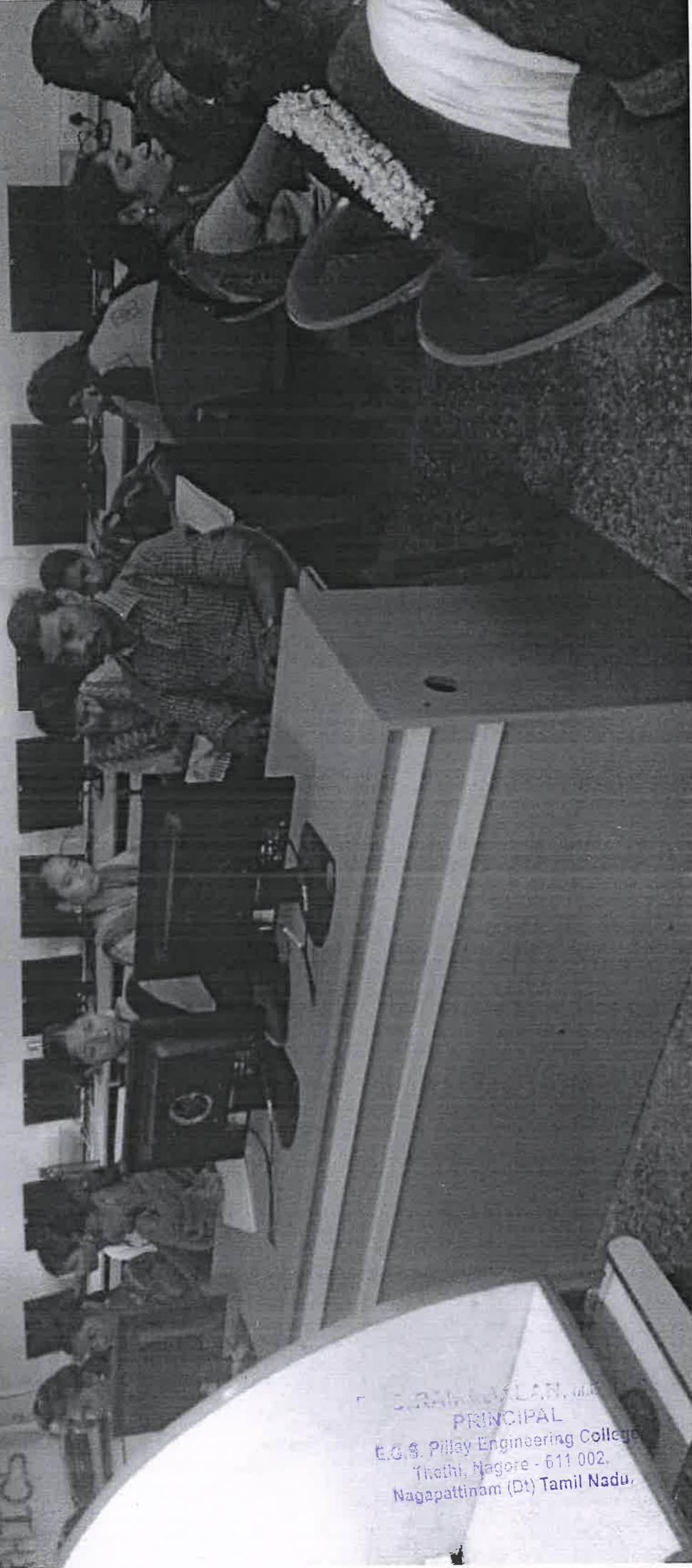
  
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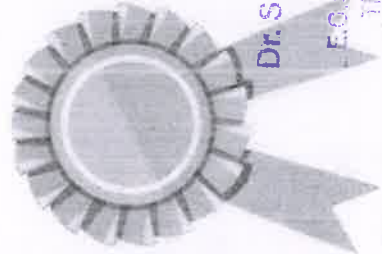
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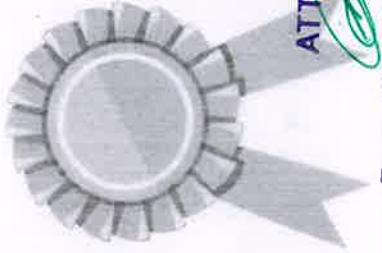
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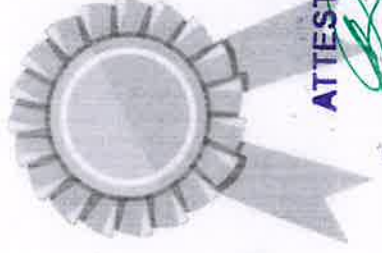
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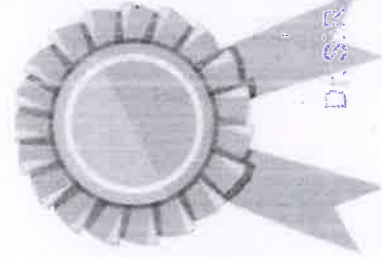
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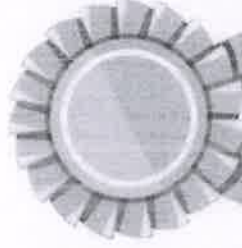
  
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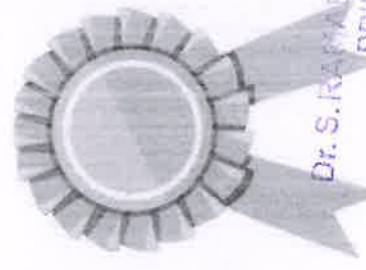
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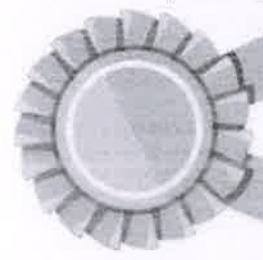
  
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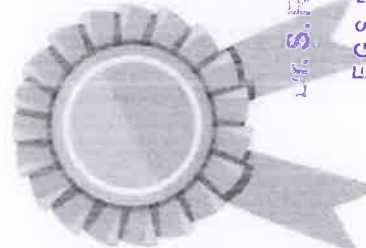
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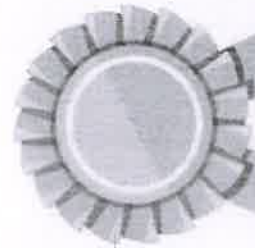
  
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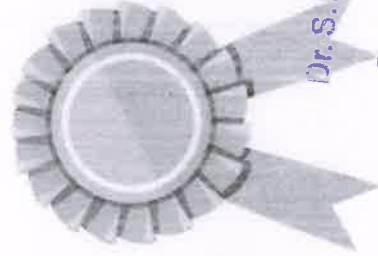
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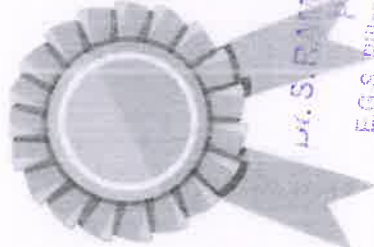
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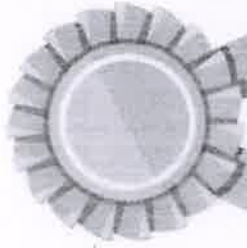
  
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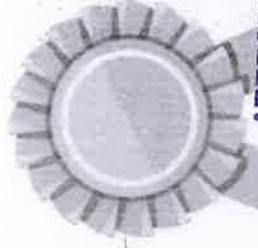
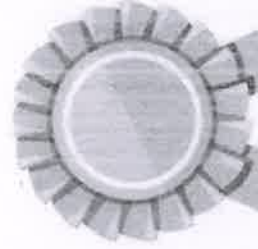
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