



7.2 Best Practices-Any other relevant information

Best Practise – I Knowledge Sharing forum

SI No	Department	Page Number
1	Department of EEE	3-21
2	Department of BME	22-44
3	Department of CSE	45-71
4	Department of ECE	72-101
5	Department of IT	102-125
6	Department of MECH	126-159



PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU



MAHENDRA COLLEGE OF ENGINEERING

SALEM-CAMPUS, ATTUR MAIN ROAD, MINNAMPALLI, SALEM -636 106.



KNOWLEDGE SHARING FORUM

One of our successful best practices, Knowledge Sharing Forum ,will commence from 18.02.2022.For better understanding to the newly joined faculty members ,this practice is again explained below.

Knowledge Sharing Forum is a platform through which knowledge (namely,information,skillsor,expertise) is exchanged among people in the institution.

Faculty members are invited to step outside their usual routine and engage in the sharing of ideas with their Colleagues. Benefits and strengths:

- You can present a lot of information.
- People focus on what interests them.
- There is immediate interaction with the presenter.
- Excellent for networking.
- Establishes contacts for the future.
- strengthen their team spirit and ability to work together.
- Recognizes best practices and people's achievements.
- Lets people know each other's areas of knowledge.
- Lets you find specific expertise, or a specific person, quickly and easily.
- Provides a highly focused environment for knowledge sharing.
- Allows you to seek knowledge outside your working group.
- Promotes cooperation between teams.

General Guidelines:

- Topic of presentation must be outside the curriculum.
- It should be technology oriented, interesting , provoking the listener to interact.
- Duration of presentation shall be a minimum of 60 minutes.
- Preferably a power point presentation, but the presenter has to speak more rather than reading the slides.


PRINCIPAL
Mahendra College of Engineering,
Mahendra Salem Campus,
Minnampalli, SALEM-636 106

08/02/2022



HoD EEE Mahendra Salem <hodeeee@mahendracollege.com>

knowledge sharing forum - reg.

1 message

Tue, feb 08, 2022 at 11:18 AM

HoD EEE Mahendra Salem <hodeeee@mahendracollege.com>

To: hods <hods@mahendracollege.com>

Cc: Principal Mahendra Salem <principal@mahendracollege.com>, "dean.academic" <dean.academic@mahendracollege.com>, mcestaffs@mahendracollege.com

Dear Sir/madam,

We cordially invite you and the faculty of your department to attend the Knowledge Sharing Forum on Saturday, 18.02.2022 at 9.30 am at seminar hall

The programme schedule is given below:

18/02/22-N.KRISHNAPRIYA(9444630897) Topic:BLUE BRAIN
29/04/22-Dr.R.Anand(9894102296) Topic:CHAKRAS IN HUMAN BODY
12/08/22-S.Thangapandiyan(9994344436)Topic:GEOTHERMAL ENERGY

Kindly inform the entire faculty to attend the program and encourage them to interact more with the speaker, to make the sessions lively.

Thanking you,

Head/Department of EEE
Mahendra College of Engineering
Minnampalli
Salem- 636 106.


PRINCIPAL
Mahendra College of Engineering,
Mahendra Salem Campus,
Minnampalli, Salem-636 106

MAHENDRA COLLEGE OF ENGINEERING

KNOWLEDGE SHARING PROGRAM

TOPIC: BLUE BRAIN

PREPARED BY
N. KRISHNAPRIYA, AP/EEE

CONTENTS

- 1- INTRODUCTION
- 2- WHAT IS BLUE BRAIN
- 3- WHAT IS VIRTUAL BRAIN
- 4- FUNCTION OF NATURAL BRAIN
- 5- BRAIN SIMULATION
- 6- CURRENT RESEARCH WORK
- 7- ADVANTAGES
- 8- DISADVANTAGE
- 9- HARDWARE AND SOFTWARE REQUIREMENT
- 10- CONCLUSION

INTRODUCTION

Human brain, the most valuable creation of God. The man is called intelligent because of the brain. But we lose the knowledge of a brain when the body is destroyed after the death.

• "BLUE BRAIN"- The name of the world's first virtual brain. That means a machine that can function as human brain

• Is it really possible to create a human brain?

What is BLUE BRAIN

"YES". The IBM is now developing a virtual brain known as the BLUE BRAIN

- It would be the worlds first virtual brain

Within 30 years, we will be able to scan ourselves into the computers.

WHAT IS VIRTUAL BRAIN?

- A machine that can function as brain
- It can take decision.
- It can think.
- It can response.
- It can keep things in memory.
- It also has feelings and emotions.

WHY WE NEED VIRTUAL BRAIN

- To upload contents of the natural brain into it
- To keep the intelligence, knowledge and skill of any person for ever.
- To remember things without any effort.

FUNCTIONING OF BRAIN

Sensory Input:-

Receiving input such as sound, image, etc through sensory cell.

Interpretation:-

Interpretation of the received input by the brain by defining status of neurons in the brain.

Output:-

Receiving of electric responses from the brain to perform any action.

BRAIN

SIMULATION

- | | | |
|--|----|--|
| • NATURAL BRAIN | VS | • SIMULATED BRAIN |
| • INPUT | | • INPUT |
| • Through the natural neurons | | • Through the silicon chip or artificial neurons |
| • INTERPRETATION | | • INTERPRETATION |
| • By different status of the neurons in the brain. | | • By a set of bits in the set of register |

OUTPUT

- Through the natural neurons.
- OUTPUT
- Through the silicon chip.

PROCESSING

- Through arithmetic and logical calculations
- PROCESSING
- Through arithmetic and logical calculation and artificial intelligence

MEMORY

- Through permanent states of neurons
- MEMORY
- Through Secondary memory

STEPS INVOLVED

- The team will start by modeling the electrical structure of neural circuits repeated throughout the brain and then map and model their behavior.
- Once complete, they will move onto creating a molecular model of the neurons involved and a complete neocortex (the largest and most complex part of the human brain) before modelling the rest of the brain.

ARTIFICIAL NEURAL NETWORK



Now there is no question how the virtual brain will work. But the question is how the human brain will be up loaded into it. This is also possible due to the first growing technology

UPLOADING HUMAN BRAIN

- The uploading is possible by the use of small robots known as the nanobots.
- These robots are small enough to travel through out our circulatory system
- Traveling into the spine and brain, they will be able to monitor the activity and structure of our central nervous system.
- They will be able to provide an interface with computer while we still reside in our biological form.

Nanobots could also carefully scan the structure of our brain, providing a complete readout of the connection.

- This information, when entered into a computer, could then continue to function as us.
- Thus the data stored in the entire brain will be uploaded into the computer.

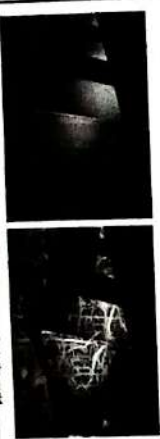
Simulating the micro circuit

Once the microcircuit is built, the exciting work of making the circuit function can begin. At the 8192 processes of the Blue Gene are pressed into service, in a massively parallel computation solving the complex mathematical equations that govern the electrical activity of neurons. As the circuit is simulated, the results are communicated via electronic channels from neuron to neuron, the results are communicated via inter processor communication (MPI). Currently, the time required to simulate the circuit is about two orders of magnitude larger than the actual biological time simulated. The Blue Brain team is working to streamline the computation so that the circuit can function in real time - meaning that 1 second of activity can be modeled in one second.



RESEARCH WORK

- IBM developing the "Blue brain"
- IBM, in partnership with scientists at Switzerland's Ecole Polytechnique Federale De Lausanne (EPFL) Brain and Mind Institute will begin simulating the brain's biological systems.



ADVANTAGES

- Remembering things without any effort.
- Making decision without the presence of a person.
- Using intelligence of a person after the death
- Understanding the activities of animals.
- Allowing the deaf to hear via direct nerve stimulation.

DISADVANTAGES

- We become dependent upon the computer.
- Others may use technical knowledge against us.

HARDWARE AND SOFTWARE REQUIREMENT

- 22.8 TFLOPS peak processing speed
- 8,096 CPUs at 700 MHz (downgraded to handle massive parallel processing)
- 256MB to 512MB memory per processor.
- Linux and C++ software
- 100 kilowatts power consumption
- very powerful Nanobots to act as the interface between the natural brain and the computer

PRINCIPAL

Wabasha College of Baginseeray,
Mababary Satam Campus,
Minesopolis, KALBD-630106

CONCLUSION

N:-

- We will be able to transfer ourselves into computers at some point



```

< < < * * * > > >
[***Thank
u***]
< < < * * * > > >

```

PRINCIPAL

Mehendra College of Engineering,
Mehendra Sastri Campus,
Miesamelli, KALKAJI-030 108

MAHENDRA COLLEGE OF ENGINEERING

KNOWLEDGE SHARING FORUM

ATTENDANCE SHEET

S.No	Name of the Faculty	Department	Signature
1	Mrs. S. Meera	ECE	M. Meera
2	Dr. M. Suganti	ECE	M. Suganti
3	Mr. Boobalan V	Bio - Medical	V. Boobalan
4	Mrs. R. Priyadarshini	CSE	R. Priyadarshini
5	S. Thanga Praveen	ECE	S. Thanga
6	Mrs. Priya devi	ECE	Priya
7	Mr. Gopi S	MECH.	G. Gopi
8	R. Priyadarshini	BIO - Medical	R. Priyadarshini
9	S. Vinith	Bio medical	S. Vinith
10	M. Jenolin Rex	CSE	M. Jenolin
11	Ms. L. Vinitha sri	CSE	Ms. L. Vinitha
12	Dr. Andrews	CSE	Andrews
13	Mr. D. Balaji	ECE	D. Balaji
14	Mr. T. Ramesh	EEF	T. Ramesh
15	Mrs. V. Deepa	CSE	V. Deepa
16	Mr. Vinith	BME	Vinith
17	Dr. S. balamangan	mech?	S. balamangan
18	Kariya Karthi . K	BME	K. Kariya Karthi
19	S. Gayathri	CSE	S. Gayathri
20	Ms. R. Gayathri	IT	R. Gayathri
21	Dr. N. Satish	IT	N. Satish
22	G. Shymala	BIO - Medical	G. Shymala
23	C. Kannan	mech -	C. Kannan


PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Salem Campus,
 Minnampalli, S.A. TM-636 106

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>Blue Brain</u>	Name of the Presenter/s : <u>N. Krishnapriya</u>
Today's Date: <u>18.02.2022</u>	Name of the Participant: <u>C. Kannan</u>

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style				✓
Instructor Covered Material Clearly			✓	
Instructor Responded well to questions			✓	
Instructor facilitated interaction among participants well				✓

C. How could this Knowledge Sharing Forum be improved?	
D. Any other comments or suggestions?	<u>Thanks for this wonderful presentation</u>

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [✓] EXCELLENT


PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Salem Campus,
 Minampalli, SALEM-636 106


 Signature of Participant

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>Blue Brain</u>	Name of the Presenter/s : <u>N. Krishnapriya</u>
Today's Date: <u>18.02.2022</u>	Name of the Participant: <u>C. Chitra</u>

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge				✓
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly				✓
Instructor Responded well to questions			✓	
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	
D. Any other comments or suggestions?	<u>Show more images in your slides</u>

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [✓] EXCELLENT


PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Saram Campus,
 Madhavapalli, Salem-636 106


 Signature of Participant

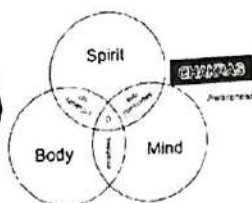
CHAKRAS IN HUMAN BODY

DR.R.ANAND
ASP&HOD/EEE

What are Chakras?

- Chakras are the circular workloves of energy that are placed in seven different points on the spinal column, and all the seven chakras are connected to the various organs and glands within the body.
- These chakras are responsible for distributing the life energy, which is also known as Qi or Prana.

Body +
Soul +
Mind =
Chakras

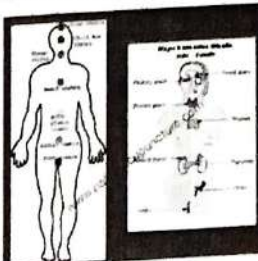


LOCATION OF THE CHAKRAS IN THE BODY



- 1 The Crown Chakra
- 2 The Third Eye Chakra
- 3 The Throat Chakra
- 4 The Heart Chakra
- 5 The Solar Plexus Chakra
- 6 The Sacral Chakra
- 7 The Base/Root Chakra

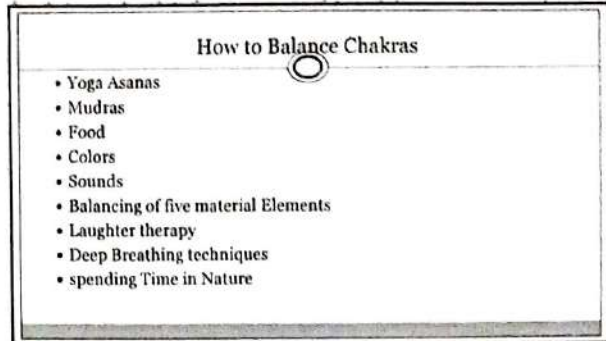
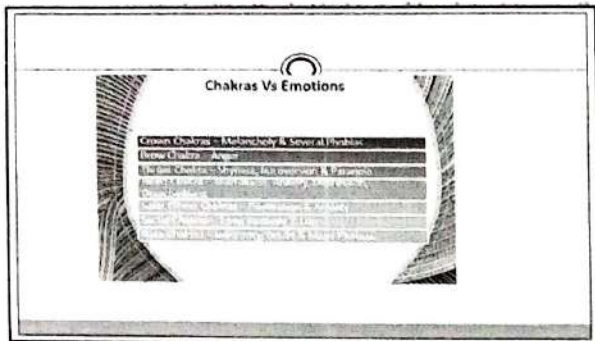
CHAKRAS AND ENDOCRINE GLANDS



CHAKRAS AND ASSOCIATED ORGANS

Chakra	Associated Organs
1 Crown	Upper brain & right eye
2 Brow	Lower brain, nose, ears & left eye
3 Throat	Lungs, throat, bronchus, pharynx, larynx, upper lymphatics & large intestine
4 Heart	Heart, blood circulation, middle lymphatics & vagus
5 Solar Plexus	Stomach, liver, spleen, pancreas, gallbladder & duodenal / jejunum parts of the small intestine
6 Sacral	Reproductive system, lower lymphatics & ileum part of the small intestine
7 Base	Spinal column, kidneys & urinary bladder

NM
PRINCIPAL
Mahendra College of Engineering,
Mahendra Sastri Campus,
Minnampalli, SALEM-636 104




PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Nagar Campus,
 Mysore, KARNATAKA-576 106

MAHENDRA COLLEGE OF ENGINEERING

KNOWLEDGE SHARING FORUM

ATTENDANCE SHEET

S.No	Name of the Faculty	Department	Signature
1.	Dr. S.H. Ramakrishna	EEE	S.H. Ramakrishna
2.	Mr. S. Manoj Kumar	ECE	S. Manoj Kumar
3.	K. Priya	ECE	Priya
4.	S. Thanga (Renuka)	EEE	S. Thanga
5.	Deepa. V.	CSE	Deepa. V.
	Mrs. Priya T	Bio - Medical	Priya T
7.	Kav. Priya	CSE	Kav. Priya
8.	Mr. Prabhu S	Mechanical.	Prabhu S
9.	Singh. V. N.	IT.	Singh. V. N.
10.	M. Vinodh S	BIO - MEDICAL	M. Vinodh S
11.	S. Ashiq Ahmed	CSE	S. Ashiq Ahmed
12.	Mr. Rajakumaran V	MECHANICAL	Rajakumaran V
13.	Mr. Logeshwaran Manoharan	CSE	Logeshwaran Manoharan
14.	Mrs. K. PRIYADEVI	ECE	Priyadevi
15.	C. Suber	ECE	C. Suber
16.	Ms. Prabarathi M.K	BIO - Medical	Ms. Prabarathi M.K
17.	K. Pravin Kumar	ECE	K. Pravin Kumar
18.	Mr. M. Udayindraj	Mech	M. Udayindraj
19.	T. Akila	CSE	T. Akila
20.	Mrs. S. Usha	EEE	S. Usha
21.	Dr. V. V. M. M. M.	ECE	Dr. V. V. M. M. M.
22.	R. Priyadharshini	Bio-Med	R. Priyadharshini
23.	A. Vijayalakshmi	IT	A. Vijayalakshmi


PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Sagar Campus,
 Minamipalli, Salem-636 106

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>CHAKRAPASIN HUMAN BODY</u>	Name of the Presenter/s : <u>Dr. ANAND</u>
Today's Date: <u>29.04.2022</u>	Name of the Participant: <u>A. vijayalakshmi</u>

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge				✓
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly			✓	
Instructor Responded well to questions				✓
Instructor facilitated interaction among participants well				✓

C. How could this Knowledge Sharing Forum be improved?	
D. Any other comments or suggestions?	

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [✓] GOOD [] EXCELLENT


PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Salem Campus,
 Minnampalli, SALEM-636 106


 Signature of Participant

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>CHAKARAS IN HUMAN BODY</u>	Name of the Presenter/s : <u>Dr. ANAND</u>
Today's Date: <u>29.04.2022</u>	Name of the Participant: <u>Mrs. S. Keerthana</u>

For the following data's please fill your rating:


A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style				✓
Instructor Covered Material Clearly			✓	
Instructor Responded well to questions				✓
Instructor facilitated interaction among participants well				✓

C. How could this Knowledge Sharing Forum be improved?	
D. Any other comments or suggestions?	

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [✓] GOOD [] EXCELLENT


PRINCIPAL
 Mehendra College of Engineering
 Mehendra Sagar Campus,
 Minampalli, SALEM-636 106


 Signature of Participant

MAHENDRA COLLEGE OF
ENGINEERING
KNOWLEDGE SHARING PROGRAM

PRESENT BY
S.THANGAPANDIYAN

Geothermal Energy

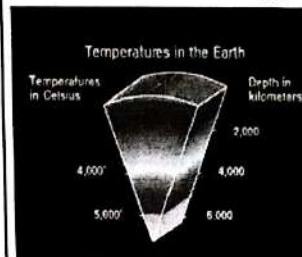


Outlines

- › Introduction
- › Geothermal Reservoirs
- › Extraction & Uses of Geothermal Energy
- › Electricity Generation
- › Cost
- › Geothermal Energy in India
- › Pros and Cons
- › Conclusion

Introduction

- › What is Geothermal Energy ?



It's simply the heat energy of the earth, generated by various natural processes, such as:

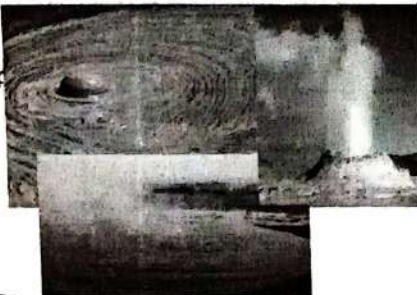
1. heat from when the planet formed and accreted, which has not yet been lost
2. decay of radioactive elements
3. friction

The deeper you go, the hotter it is !!! etc.....

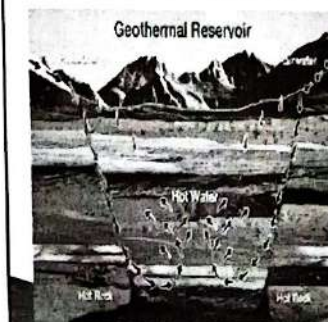
Geothermal Reservoirs

- › Reservoirs can be suspected in the areas where we find :-

- Geyser
- Boiling mud p
- Volcano
- Hot springs



Geothermal Reservoirs



- › The rising hot water & steam is trapped in permeable & porous rocks to form a geothermal reservoir.
- › Reservoirs can be discovered by
 - testing the soil
 - analyzing underground temperature

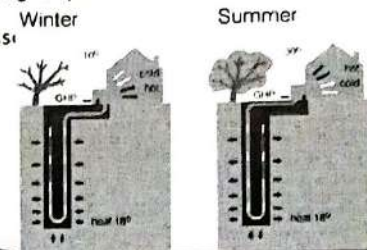
PRINCIPAL
Mahendra College of Engineering,
Mahendra Salem Campus,
Minampalli, SALEM-636 106

Extraction & uses

- › The heat energy can be brought to earth surface by following ways..
 - directly from hot springs/ geysers
 - geothermal heat pump
- › Uses are broadly classified as:-
 - direct use
 - indirect use

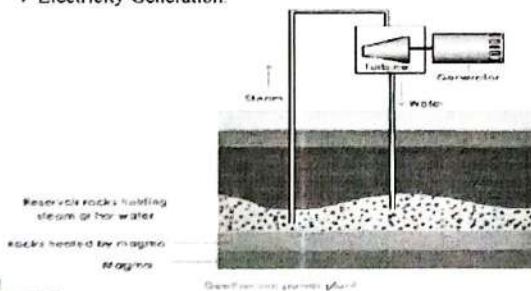
Direct use of Geothermal Energy

- › Hot springs, used as spas.
- › Heating water at fish farms.
- › Provide heat for buildings.
- › Raising plants in greenhouses, drying crops.
- › Provides heat to industrial process.



Indirect use of Geothermal Energy

- › Electricity Generation.

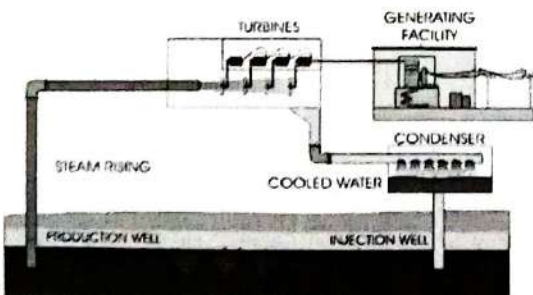


Electricity Generation

There are 3 types of power plants:-

- Dry steam power plant
- Flash steam power plant
- Binary cycle power plant

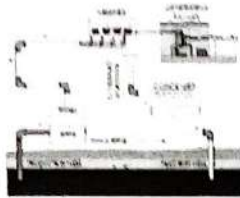
Dry Steam power plant



Dry Steam power plant

- › The oldest type of Geothermal power plant used.
- › Geothermal reservoir containing pure steam is required.
- › Pure dry steam drives turbine.
- › Very rare type of geothermal power plant.
- › Operating at California, Italy, and Japan.

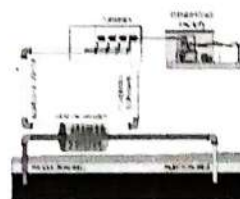
Flash steam power plant



Flash steam power plant

- › Commonly used geothermal power plant.
- › Geothermal reservoirs containing both hot water & steam is required.
- › Pressure changing system is required.
- › Operating at Hawaii, Nevada, Utah & some other places

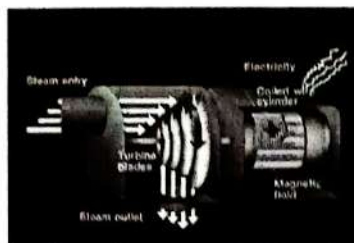
Binary cycle power plant



Binary cycle power plant


- › Does not use steam directly to spin turbines.
- › Only the heat of the underground water is used.
- › Vapourized hydrocarbons are used to spin the turbine.
- › Hydrocarbons having lower boiling point such as Isopentane, Isobutane and propane can be used.
- › No harmful gas is emitted to the atmosphere because the underground water is never disclosed to outside.
- › This's the worldwide accepted power plant.

Turbine & generator:-



Cost

- › Direct use of geothermal energy is absolutely cheaper than other energy sources.
- › Cost of electricity generation depends upon certain factors:
 - Temperature and depth of resource
 - Type of resource (steam, liquid, mix)
 - Available volume of resource
 - Size and technology of plant


PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Saran Campus,
 Minnampalli, RAJAHMUNDRU-836 106

Cost

- › The initial investment is high.
- › But after certain time period, the cost of electricity becomes comparable to other resources of energy.
- › US \$0.05 to \$0.08 (Rs. 2.772 to Rs. 4.4352) per kWh
- › Once the capital cost is recovered, the price can decrease to below US \$0.05 (Rs 2.2772) per kWh

Geothermal Energy in India



Geothermal Energy in India

- › Geothermal provinces are estimated to produce 10,600 MW of power (experts are confident only to the extent of 100 MW)
- › Geothermal provinces in India: the Himalayas, Sohana, West coast, Cambay, Son-Narmada-Tapi, Godavari, and Mahanadi
- › Reykjavik Geothermal will assist Thermax to set up a pilot project in Puga Valley, Ladakh (Jammu & Kashmir)
- › First operational commercial geothermal power plant is likely to come up in AP with a capacity of 25 MW by Geosyndicate Pvt Ltd.

Advantages

- › Available all the year around.
- › Does not involve any combustion of fuel.
- › Independent of weather
- › Clean Resource - Very little emissions or overall environmental impact.
- › Economically Sound Alternative - The fuel is free, rate / KWh likely to be competitive
- › Overall, geothermal energy is a sustainable resource.

Disadvantages

- › Not widespread source of energy
- › High installation costs
- › Can run out of steam
- › May release harmful gases
- › Transportation
- › Earthquakes

Conclusion

- › Geothermal heating system can replace fossil fuel heating system in a particular area.
- › Annual costs for common heating purposes can be reduced by more than 60%.
- › Continued energy shortages have created added interest in geothermal energy for power generation.
- › Geothermal energy appears to be a partial solution to our energy needs.

N-2
PRINCIPAL
Mehendra College of Engineering,
Mehendra Sagar Campus,
Minnampalli, A.A.R. 526-436 T.M.

MAHENDRA COLLEGE OF ENGINEERING
KNOWLEDGE SHARING FORUM
ATTENDANCE SHEET

S.No	Name of the Faculty	Department	Signature
1.	Dr. R. Anand.	EEE.	R. Anand
2.	Ms. R. Gayathri	IT	R. Gayathri
3.	Mrs. T. Priya	BME	T. Priya
4.	Dr. M. Suganthi	ECE	M. Suganthi
5.	Mr. C. Kannan	ME	C. Kannan
6.	V. Shamithi	IT	Shamithi V
7.	Sankar. A	ME	Sankar A
8.	Mr. V. Boobalan	BME	V. Boobalan
9.	Priya Devi. K.	ECE	Priya Devi. K.
10.	Mr. V. Velu	EEE.	V. velu
11.	Mr. G. Jeeva	IT	G. Jeeva
12.	Dr. Sivaraj. K.	BME	K. Sivaraj
13.	Dr. T. Akila.	CSE	T. Akila
14.	N. Marutha. Muthu	ME	Marutha Muthu
15.	R. Gayathri	IT	Gayathri R
16.	Mr. M. Arun	ME	M. Arun
17.	V. Deepa	CSE	V. Deepa
18.	Mrs. S. Usha	EEE	S. Usha
19.	Mrs. S. Meera	ECE	S. Meera
20.	Mr. Vinith. S.	ME	S. Vinithy.
21.	Mrs. N. Sindhu	IT	Sindhu N
22.	P. Pannay Selvam	ME	Pannay Selvam P
23.	P. Lalitha	CSE	P. Lalitha


PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Sagar Campus,
 Minnampalli, S.A. 636 106

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>GEOTHERMAL ENERGY</u>	Name of the Presenter/s: <u>S. THANGA PANDIYAN</u>
Today's Date: <u>12.08.2022</u>	Name of the Participant: <u>Ms. M. SOKMIYA</u>

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style				✓
Instructor Covered Material Clearly				✓
Instructor Responded well to questions			✓	
Instructor facilitated interaction among participants well				✓

C. How could this Knowledge Sharing Forum be improved?	<u>More technical related topics</u>
D. Any other comments or suggestions?	

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [☒] EXCELLENT


PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Salem Campus,
 Minnamallu, SALEM-636 106


 Signature of Participant

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>GEOTHERMAL ENERGY</u>	Name of the Presenter/s : <u>S. THANGAPANDIAN</u>
Today's Date: <u>12.08.2022</u>	Name of the Participant: <u>Mrs. V. Deepa</u>

For the following data's please fill your rating:


A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly				✓
Instructor Responded well to questions				✓
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	e.
D. Any other comments or suggestions?	every thing is good

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [✓] EXCELLENT


PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Satam Campus,
 Minnampalli, AALEM-636 106


 Signature of Participant



MAHENDRA COLLEGE OF ENGINEERING

SALEM-CAMPUS, ATTUR MAIN ROAD, MINNAMPALLI, SALEM -636 106.



The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

05-MARCH-2022 at 10.45 a.m

Presented by

Mrs. T. Priya

AP/BME

Topic: HEMOSTASIS

Will be the resource persons

Dr. N. MOHANA SUNDARARAJU

Principal, Mahendra College of Engineering

Will deliver the introductory note

N: M
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM - 636 106
TAMILNADU



HoD BME Mahendra Salem <hodbme@mahendracollege.com>

knowledge sharing forum - reg.

1 message

sat, feb 26, 2022 at 11:30 AM

HoD BME Mahendra Salem <hodbme@mahendracollege.com>

To: hods <hods@mahendracollege.com>
Cc: Principal Mahendra Salem <principal@mahendracollege.com>, "dean.academic" <dean.academic@mahendracollege.com>, mcestaffs@mahendracollege.com

Dear Sir/madam,

We cordially invite you and the faculty of your department to attend the Knowledge Sharing Forum on Saturday, 05.03.2022 at 10 45 am at seminar

hall. The programme schedule is given below:

10.45 am to 11.45 am - "Hemostasis" by Mrs.T.Priya, AP/BME.

Kindly inform the entire faculty to attend the program and encourage them to interact more with the speaker, to make the sessions lively.

Thanking you,

Thanks & Regards,
Prof.S.Rajalaxmi,
HOD -BME,
Mahendra College of Engineering,
Salem - 636 106.
Mob: 9865147730

<https://mail.google.com/mail/u/1?ik=b669e4069b&view=pt&search=all&permthid=thread-f%3A1572892758089060734%7Cmsg-f%3A1572892758089...>

N.Y.
PRINCIPAL
Mahendra College of Engineering
Minnampalli, Salem, 636 106
TAMILNADU



MAHENDRA COLLEGE OF ENGINEERING

Salem-Campus, Attur Main Road, Minnampalli,

DEPARTMENT OF BIOMEDICAL ENGINEERING

KNOWLEDGE SHARING FORUM

FACULTY ATTENDANCE

DATE: 05.03.2022

S.NO	NAME OF THE STAFF	DEPARTMENT	SIGNATURE
1.	Dr. S. Rajalaxmi	BME	[Signature]
2.	K. Jayanthi	ECE	[Signature]
3.	S. Thangarajan	ECE	[Signature]
4.	H. Kala	BME	[Signature]
5.	Vengateshwaran. C	Mech	[Signature]
6.	G. Shyamala	Biomedical	[Signature]
7.	P. Shuangamriza	IT	[Signature]
8.	A.T. Priyoshikumar	BME	[Signature]
9.	Naanikarunathan	Mech	[Signature]
10.	Dr. D. VIDYA	Maths	[Signature]
11.	Vinoth S	BME	[Signature]
12.	Abhmani. A	Maths	[Signature]
13.	Nishadri-v	CSE	[Signature]
14.	M. SATHYA	CSE	[Signature]
15.	Dr. T. Acila	Prof / I.T	[Signature]
16.	Parameshwari. P	Maths	[Signature]
17.	S. Meeha	ECE	[Signature]
18.	P.N. Palanisamy	ECE	[Signature]
19.	M. Karthikeyan	ECE	[Signature]
20.	S. Kiruthika	IT	[Signature]
21.	R. Chandiran	Mechatronics	[Signature]

N.V. PRINCIPAL
Mahendra College of Engineering
Mahendra Campus,
Minnampalli, Salem-636 10
TAMILNADU



MAHENDRA COLLEGE OF ENGINEERING,
(Approved by AICTE and Affiliated to Anna University)
Salem Campus, Minnampalli, Salem 636 106.
DEPARTMENT OF BIOMEDICAL ENGINEERING



**KNOWLEDGE SHARING FORUM
EVALUATION FORM**

Title : Hemostasis

Today's Date: 05/3/22 Name of the Presenter/s: T. Priya

Name of the Participant : Dr. T. Akila

A. Presentation	1 Poor	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style		✓		
Instructor's Covered material clearly			✓	
Instructor responded well to questions			✓	
Instructor facilitated interactions among participants well		✓		

B. How could this Knowledge sharing Forum be improved	✓
C. Any other comments or suggestions?	—

D. Overall, how would you rate this Programme?

[] POOR

[] FAIR

[✓] GOOD

[] EXCELLENT

Akila
Signature of the participant

PRINCIPAL
Mahendra College of Engineering
Minnampalli, Salem 636 106



MAHENDRA COLLEGE OF ENGINEERING,
(Approved by AICTE and Affiliated to Anna University)
Salem Campus, Minnampalli, Salem 636 106.
DEPARTMENT OF BIOMEDICAL ENGINEERING



**KNOWLEDGE SHARING FORUM
EVALUATION FORM**

Title : Hemostasis

Today's Date: 5/3/22 Name of the Presenter/s: P. Parameswarar

Name of the Participant : P. Parameswarar

A. Presentation	1 Poor	2 Medium	3 Good	4 Excellent
Instructor's knowledge		✓	.	
Instructor's presentation style			✓	
Instructor's Covered material clearly			✓	✓
Instructor responded well to questions			✓	
Instructor facilitated interactions among participants well			.	✓

B. How could this Knowledge sharing Forum be improved	✓
C. Any other comments or suggestions?	NIL

D. Overall, how would you rate this Programme?

[] POOR

[] FAIR

[✓] GOOD

[] EXCELLENT

P. Parameswarar
Signature of the participant

N.Y.
PRINCIPAL
Mahendra College of Engineering
Salem Campus,
Minnampalli, Salem 636 106.



MAHENDRA COLLEGE OF ENGINEERING,
(Approved by AICTE and Affiliated to Anna University)
Salem Campus, Minnampalli, Salem 636 106.
DEPARTMENT OF BIOMEDICAL ENGINEERING



**KNOWLEDGE SHARING FORUM
EVALUATION FORM**

Title : *Hemostasis*

Today's Date: *05.8.22* ... Name of the Presenter/s: *T. priya*

Name of the Participant : *P. Chandinan*

A. Presentation	1 Poor	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style			✓	
Instructor's Covered material clearly		✓		
Instructor responded well to questions			✓	
Instructor facilitated interactions among participants well			✓	

B. How could this Knowledge sharing Forum be improved	
C. Any other comments or suggestions?	<i>Good.</i>

D. Overall, how would you rate this Programme?

☐ POOR

☐ FAIR

☒ GOOD

☐ EXCELLENT

P. Chandinan
Signature of the participant

N.V.
PRINCIPAL
Mahendra College of Engineering
Salem Campus, Minnampalli, Salem 636 106.



HEMOSTASIS

• DEFINITION

- Heme = blood
- stasis = to stop

- It is the process of forming clots in the wall of damaged blood vessels & preventing blood loss while maintaining blood in a fluid state within the vascular system.

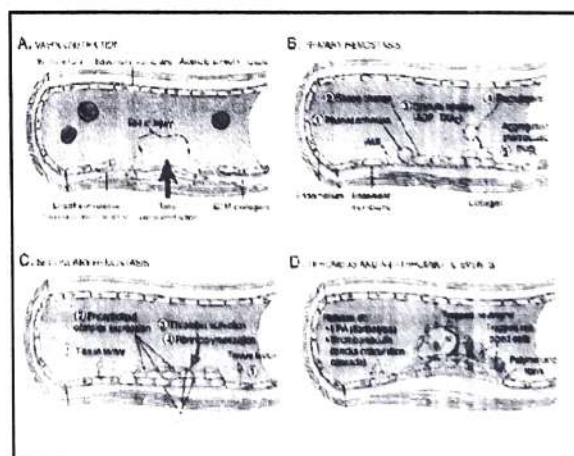
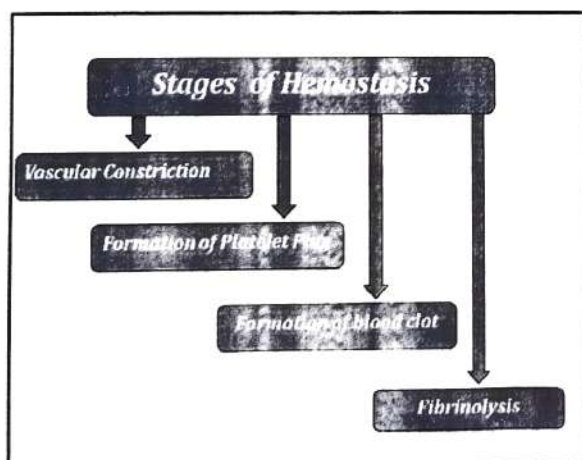
- Defects in hemostasis can lead to an increased risk of bleeding (hemorrhage) or clotting (thrombosis).

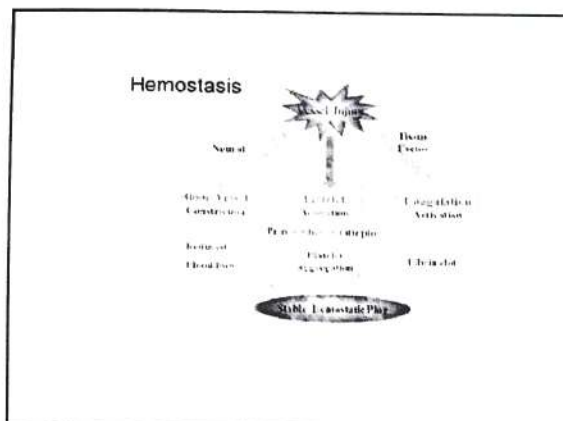
FUNCTION OF BLOOD

- ✓ Transportation
 - Oxygen
 - Nutrients
 - Hormones
 - Waste Products
- ✓ Regulation of pH & osmosis
- ✓ Protection
 - Coagulation
 - Fight Infections
- ✓ Maintenance of body temperature

Steps:

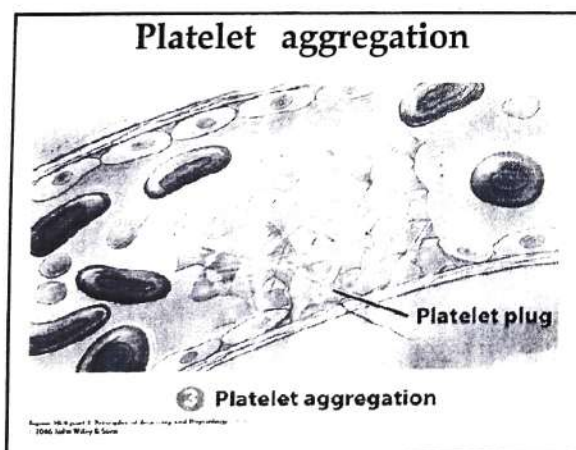
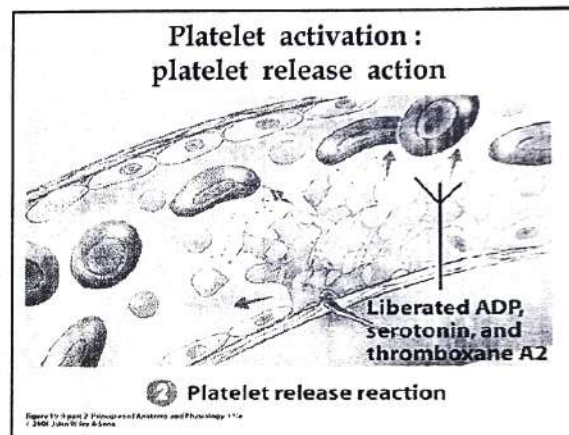
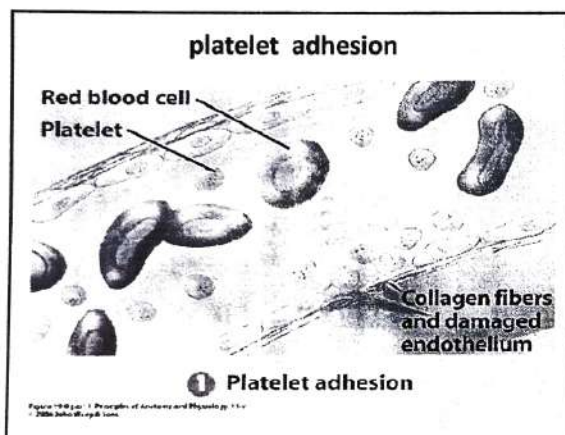
- 1) Arteriolar vasoconstriction
- 2) Primary haemostasis → temporary platelet plug
 - a) Platelet adhesion
 - b) Platelet activation (shape change & granule release)
 - c) Platelet aggregation
- 3) Secondary haemostasis → solid permanent plug
 - a) Activation of coagulation cascade
 - b) Conversion of fibrinogen to insoluble fibrin
 - c) Aggregates of polymerized fibrin & platelets
- 4) Counter-regulatory mechanisms → restrict plug to site of injury





2- STAGES OF PRIMARY HEMOSTASIS

- *Platelet Adhesion*
- *Platelet Activation*
- *Platelet Aggregation*



3- Secondary hemostasis

- If there is a large hole in the blood vessel, a blood clot is additionally required.
- *Cascade of reactions*

It states that 'inactive' enzymes are activated, and the 'activated' enzymes in turn activates other inactive enzymes until final step is reached.



MAHENDRA COLLEGE OF ENGINEERING

SALEM-CAMPUS, ATTUR MAIN ROAD, MINNAMPALLI, SALEM -636 106.



The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

28-MAY-2022 at 10.30 a.m

Presented by

Mrs. H. Kala

AP/BME

Topic: ADVANCED MEDICAL INSTRUMENTATION

Will be the resource persons

Dr. N. MOHANA SUNDARARAJU

Principal, Mahendra College of Engineering

Will deliver the introductory note

N. M.
PRINCIPAL
Mahendra College of Engineering
Salem-Campus,
Minnampalli Road, Salem - 636 106
TAMILNADU

HoD BME Mahendra Salem <hodbme@mahendracollege.com>**knowledge sharing forum - reg.**

1 message

HoD BME Mahendra Salem <hodbme@mahendracollege.com>

sat, may 21, 2022 at 10:18 AM

To: hods <hods@mahendracollege.com>Cc: Principal Mahendra Salem <principal@mahendracollege.com>, "dean.academic" <dean.academic@mahendracollege.com>, mcestaffs@mahendracollege.com

Dear Sir/madam,

We cordially invite you and the faculty of your department to attend the Knowledge Sharing Forum on Saturday, 28.05.2022 at 10.30 am at seminar

hall . The programme schedule is given below:

10.30 am to 11.30 am - "Advanced Medical Instrumentation" by Mrs. H.KALA, AP/BME.

Kindly inform the entire faculty to attend the program and encourage them to interact more with the speaker, to make the sessions lively.

Thanking you,

Thanks & Regards,
Prof.S..Rajalaxmi,
HOD -BME,
Mahendra College of Engineering,
Salem - 636 106.
Mob: 9865147730



MAHENDRA COLLEGE OF ENGINEERING

Salem-Campus, Attur Main Road, Minnampalli,

DEPARTMENT OF BIOMEDICAL ENGINEERING

KNOWLEDGE SHARING FORUM

FACULTY ATTENDANCE



DATE: 28.05.2022

S.NO	NAME OF THE STAFF	DEPARTMENT	SIGNATURE
1.	A.T. Priyesh Kumar	BME	A.T. Priyesh Kumar
2.	Vinoth S	BME	Vinoth S
3.	Dr. S. Rajalakshmi	BME	Dr. S. Rajalakshmi
4.	H. Kala	BME	H. Kala
5.	S. Thanga Pandyan	ECE	S. Thanga Pandyan
6.	G. Shyamala	Biomedical	G. Shyamala
7.	T. Priya	BME	T. Priya
8.	P. Shanmugha Priya	IT	P. Shanmugha Priya
9.	Dr. T. Akila	Prof. / IT	Dr. T. Akila
10.	Anbu mani. A	Maths	Anbu mani. A
11.	Parameshwari. P	Maths	Parameshwari. P
12.	V. Madhuri	Maths	V. Madhuri
13.	Dr. D. Vidhya	MATHS	Dr. D. Vidhya
14.	Mrs. Helen Margaret Joy	chemistry	Mrs. Helen Margaret Joy
15.	Nishadevi V	CSE	Nishadevi V
16.	A. Indhya	CSE	A. Indhya
17.	M. SATHYA	CSE	M. SATHYA
18.	M. Gayathri	CSE	M. Gayathri
19.	D. Balaji	ECE	D. Balaji
20.	S. Meera	ECE	S. Meera
21.	K. Jayanthi	ECE	K. Jayanthi



MAHENDRA COLLEGE OF ENGINEERING,
(Approved by AICTE and Affiliated to Anna University)
Salem Campus, Minnampalli, Salem 636 106.
DEPARTMENT OF BIOMEDICAL ENGINEERING



**KNOWLEDGE SHARING FORUM
EVALUATION FORM**

Title : Advanced Medical Implantation

Today's Date: 28/5/22 Name of the Presenter/s: H. Kala

Name of the Participant : S. Meera

A. Presentation	1 Poor	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style			✓	
Instructor's Covered material clearly		✓		
Instructor responded well to questions			✓	
Instructor facilitated interactions among participants well			✓	

B. How could this Knowledge sharing Forum be improved	✓
C. Any other comments or suggestions?	Good

D. Overall, how would you rate this Programme?

☐ POOR

☐ FAIR

☒ GOOD

☐ EXCELLENT

S. Meera
Signature of the participant

H. K.
PRINCIPAL
Mahendra College of Engineering
Salem Campus, Minnampalli, Salem 636 106.
28/5/22



MAHENDRA COLLEGE OF ENGINEERING,
(Approved by AICTE and Affiliated to Anna University)
Salem Campus, Minnampalli, Salem 636 106.
DEPARTMENT OF BIOMEDICAL ENGINEERING



**KNOWLEDGE SHARING FORUM
EVALUATION FORM**

Title : Advanced Medical Instrumentation

Today's Date: 28/05/20 Name of the Presenter/s: H. Kala

Name of the Participant : Anbu mani. A

A. Presentation	1 Poor	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style		✓		
Instructor's Covered material clearly			✓	
Instructor responded well to questions		✓		
Instructor facilitated interactions among participants well			✓	

B. How could this Knowledge sharing Forum be improved	Good
C. Any other comments or suggestions?	no

D. Overall, how would you rate this Programme?

[] POOR

[] FAIR

[] GOOD

[] EXCELLENT

Anbu
Signature of the participant

N/A
PRINCIPAL
Mahendra College of Engineering
Minnampalli, Salem 636 106
TAMILNADU

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title : Advanced Medical Instrumentation

Today's Date: 28/5/2022... Name of the Presenter/s: H. Kala

Name of the Participant : Dr. D. VIDHYA

A. Presentation	1 Poor	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style			✓	
Instructor's Covered material clearly			✓	
Instructor responded well to questions			✓	
Instructor facilitated interactions among participants well			✓	

B. How could this Knowledge sharing Forum be improved	Good
C. Any other comments or suggestions?	No,

D. Overall, how would you rate this Programme?

[] POOR

[] FAIR

[] GOOD

☐ EXCELLENT

D. Verdug
Signature of the participant

ADVANCED MEDICAL INSTRUMENTATION

PRESENTED BY,
H.KALA,
AP/BME

DEFINITION

➤ Medical equipment is designed to aid in the diagnosis monitoring or treatment of medical conditions.

Cervical Traction

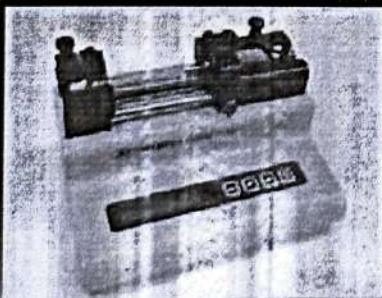


➤ Cervical traction has been applied widely for pain relief of neck muscle spasm or nerve root compression.

➤ Traction occurs when a force is applied to a part of the body to decrease muscle spasms by stretching soft tissues.

➤ Therapy of 10-15 minutes feels good.

SYRINGE DRIVE

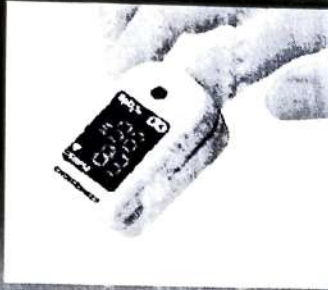


▪ A syringe driver or syringe pump is a small infusion pump used to gradually administer small amounts of fluid to patient.

• This prevents the use of multiple tablets especially in people who have difficulty swallowing.

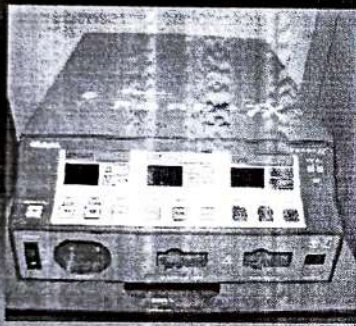
• Syringe drivers are also useful for delivering IV medications over several minutes.

PULSE OXIMETRY



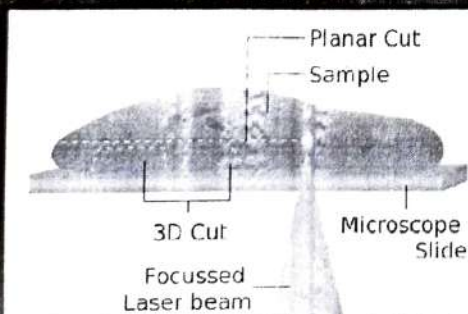
- It monitors the oxygenation of a patient's hemoglobin.
- Light of two different wavelengths is passed through the patient to a photodetector.
- A pulse oximeter is useful in any setting where a patient's oxygenation is unstable, including intensive care, emergency.

Electrosurgical Unit



- A radical change in surgery is brought by electrosurgical unit
- High frequency electric currents (500KHz) are used to cut, coagulate, dehydrate tissues.
- It gets heated up resulting in evaporation of the water which ultimately destroys the cells.
- By this we can perform bloodless surgery.

Laser microtome



- The laser microtome is an instrument used for non-contact sectioning of biological tissues or materials.
- In contrast to mechanically working microtomes, the laser microtome does not require sample preparation techniques such as freezing, dehydration or embedding.
- It has the ability to slice tissue in its native state. Depending on the material being processed, slice thicknesses of 10 to 100 micrometers are possible.

N.M.



MAHENDRA COLLEGE OF ENGINEERING

SALEM-CAMPUS, ATTUR MAIN ROAD, MINNAMPALLI, SALEM -636 106.



The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

10-SEP-2022 at 10.30 a.m

Presented by

Mrs. S.K. Deepa

AP/BME

***Topic: DESIGN AND DEVELOPMENT OF BIOGAS PLANT
TO PROCESS FOOD WASTE***

Will be the resource persons

DR. N. MOHANA SUNDARARAJU

Principal, Mahendra College of Engineering

Will deliver the introductory note

N.M.
PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus.
Minnampalli, SALEM -636 106
TAMILNADU



HoD BME Mahendra Salem <hodbme@mahendracollege.com>

knowledge sharing forum - reg.

1 message

HoD BME Mahendra Salem <hodbme@mahendracollege.com>

sat, sep 03, 2022 at 10:18 AM

To: hods <hods@mahendracollege.com>

Cc: Principal Mahendra Salem <principal@mahendracollege.com>, "dean.academic" <dean.academic@mahendracollege.com>, mcestaffs@mahendracollege.com

Dear Sir/madam,

We cordially invite you and the faculty of your department to attend the Knowledge Sharing Forum on Saturday, 10.09.2022 at 10.30 am at seminar

hall . The programme schedule is given below:


10.30 am to 11.30 am - " Design and Development of Biogas Plant To Process Food Waste " by Mrs. S.K.Deepa, AP/BME.

Kindly inform the entire faculty to attend the program and encourage them to interact more with the speaker, to make the sessions lively.

Thanking you,

Thanks & Regards,
 Prof.S..Rajalaxmi,
 HOD -BME,
 Mahendra College of Engineering,
 Salem - 636 106.
 Mob: 9865147730

<https://mail.google.com/mail/u/1?ik=b669e4069b&view=pt&search=all&permthid=thread-f%3A1572892758089060734%7Cmsg-f%3A1572892758089...> 1/1


 PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli SALEM - 636 106
 TAMILNADU



MAHENDRA COLLEGE OF ENGINEERING

Salem-Campus, Attur Main Road, Minnampalli,

DEPARTMENT OF BIOMEDICAL ENGINEERING

KNOWLEDGE SHARING FORUM

FACULTY ATTENDANCE

DATE: 10.09.2022

S.NO	NAME OF THE STAFF	DEPARTMENT	SIGNATURE
1	G. Shyamala	Biomedical	
2	J. Rajkumar	BME	
3	Paromeshwari P	Maths	
4	H. Kala	BME	
5	V. Madhuri	Maths	
6	A.T. Priyeshkumar	BME	
7	P. Shanmugapriya	IT	
8	Dr. D. VIDYA	MATHS.	
9	Vinoth S	BME	
10	Helan Margaret Joy	chemistry	
11	S. Thaya Praveen	IT	
12	M. SAATHYA	CSE	
13	M. Gayathri	CSE	
14	Dr. R. REKA	ASP / CSE	
15	D. Balaji	ECE	
16	Dr. T. Akila	Prof / IT	
17	P.N. Palanisamy	ECE	
18	M. karthikeyan	ECE	
19	K. Tayanthi	ECE	
20	A. Anjath	CSE	
21	M. Anandraj	CSE	

PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, Salem - 636 006



MAHENDRA COLLEGE OF ENGINEERING,

(Approved by AICTE and Affiliated to Anna University)

Salem Campus, Minnampalli, Salem 636 106.

KNOWLEDGE SHARING FORUM

EVALUATION FORM



Title : DESIGN AND DEVELOPMENT OF BIOGAS PLANT TO PROCESS FOOD WASTE...

Today's Date : 10/9/22 Name of the Presenter/s : S. K. Deepa

Name of the Participant : Dr. R. REKA

A. Presentation	1 Poor	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style			✓	
Instructor's Covered material clearly			✓	
Instructor responded well to questions		✓		
Instructor facilitated interactions among participants well		✓		

B. How could this Knowledge sharing Forum be improved	Good
C. Any other comments or suggestions?	No

D. Overall, how would you rate this Programme?

☐ POOR

☐ FAIR

☒ GOOD

☐ EXCELLENT

R.R.D.

Signature of the participant

N.V.
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus
Minnampalli, SALEM 636 10
TAMILNADU



MAHENDRA COLLEGE OF ENGINEERING,
(Approved by AICTE and Affiliated to Anna University)
Salem Campus, Minnampalli, Salem 636 106.
DEPARTMENT OF BIOMEDICAL ENGINEERING



**KNOWLEDGE SHARING FORUM
EVALUATION FORM**

Title : DESIGN AND DEVELOPMENT OF BIOGAS PLANT TO PROCESS FOOD WASTE

Today's Date: 10/9/22 Name of the Presenter/s: S.K. DEEPA

Name of the Participant : A. INDHUJA

A. Presentation	1 Poor	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style		✓		
Instructor's Covered material clearly			✓	
Instructor responded well to questions				✓
Instructor facilitated interactions among participants well			✓	

B. How could this Knowledge sharing Forum be improved	Good
C. Any other comments or suggestions?	NO

D. Overall, how would you rate this Programme?

☐ POOR

☐ FAIR

☒ GOOD

☐ EXCELLENT

A. Indhuja
10/9/22

Signature of the participant

A. Indhuja
PRINCIPAL
Mahendra College of Engineering
Minnampalli, SALEM 636 106
TAMILNADU



MAHENDRA COLLEGE OF ENGINEERING,
(Approved by AICTE and Affiliated to Anna University)
Salem Campus, Minnampalli, Salem 636 106.
DEPARTMENT OF BIOMEDICAL ENGINEERING



**KNOWLEDGE SHARING FORUM
EVALUATION FORM**

Title : DESIGN AND DEVELOPING OF BIOMAS PLANT TO PROCESS FOOD WASTE

Today's Date: 10/9/22 Name of the Presenter/s: S.K. DEEPA

Name of the Participant : V. MADHURI

A. Presentation	1 Poor	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style		✓		
Instructor's Covered material clearly			✓	
Instructor responded well to questions		✓		
Instructor facilitated interactions among participants well			✓	

B. How could this Knowledge sharing Forum be improved	GOOD
C. Any other comments or suggestions?	No

D. Overall, how would you rate this Programme?

☐ POOR

☐ FAIR

☒ GOOD

☐ EXCELLENT

N. Medh
Signature of the participant

N. Medh
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus
Minnampalli, SALEM 636 106
TAMILNADU

DESIGN AND DEVELOPMENT OF BIOGAS PLANT TO PROCESS FOOD WASTE

Presented By,
Deepa S.K
AP/BME

What is Bio Gas

- Biogas is an alternative and renewable energy that can be produced by the anaerobic (absence of oxygen) decomposition of organic matter
- Biogas can be produced from regionally available raw materials such as recycled waste and is a renewable energy source
- Typically, using organic wastes as the major input, the systems produce biogas that contains 55% to 70% CH₄ and 30% to 45% CO₂.

What is Bio Gas

- Biogas is produced by anaerobic digestion with anaerobic bacteria fermentation of biodegradable materials such as manure, sewage, municipal waste, green waste, plant material, and crops.
- The gases in the biogas, hydrogen and carbon monoxide (CO) can be combusted or oxidized with oxygen.
- Landfill gas is produced by the anaerobic decomposition of organic matter in a landfill.

Biogas Upgrading

- There are four main methods of upgrading: water scrubbing, dry absorption, solvent absorption, and cryogenic separation.
- The most prevalent method is water washing where high pressure gas flows into a column where the carbon dioxide and other trace elements are scrubbed by cascading water running counter-flow to the gas.

Benefits

- Reduced GHG emissions
- Potential reduction of VOC emissions
- Pathogen and seed control
- Improved water quality

What is Biogas Digestion?

- Biogas Digestion is the process of taking biogas to produce electricity, heat, or hot water
- Biogas means a gas formed by carbon dioxide and methane from breakdown of organic materials such as manure.

W4
PRINCIPAL
Mahendra College of Engineering
Mahendra College of Engineering
Mangalagiri, SAKSHI 836 101
TAMENADU



MAHENDRA
COLLEGE OF ENGINEERING

Affiliated to Anna University and Approved by AICTE



The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

PRESENTED

DATE: 12.03.2022

SESSION: 10.00 am to 11.30 am

Mrs.B.SEETHALAKSHMI

Assistant Professor-CSE

TOPIC: CRITICAL THINKING AND PROBLEM SOLVING

Will be the resource persons

Dr. N. MOHANA SUNDARARAJU

Principal

Mahendra college of Engineering



[s://meet.google.com/hqh-oyes-gzy](https://meet.google.com/hqh-oyes-gzy)


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus
Minnampalli, SALEM 636 10
TAMILNADU

'KNOWLEDGE SHARING FORUM'

Critical thinking and Problem Solving

Presented by
B.Seethalakshmi
AP/CSE

Active Engagement In Lecture

Person A states his/her understanding of what has been said, then elaborates.

Person B agrees or disagrees with the interpretation, or adds to the interpretation, then gives an example of it, relating the idea to something in life.

Critical Thinking:


What is It?

Why is it Important?

How Does it Improve Teaching and Learning?

Active Engagement In Lecture (cont.)

- Person B states his/her understanding of what has been said, then elaborates.
- Person A agrees or disagrees with the interpretation, or adds to the interpretation, then gives an example of it, relating the idea to something in life.


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

**Thinking is the way that the
mind makes sense of the
world.**

**There is no way to
understand anything
except through
thinking.**

Thinking tells us:

- what there is
- what is happening
- what our problems are
- what our options are
- what threatens us
- what is important
- what is unimportant
- who our friends are
- who our enemies are
- what our "history" is
- who we are
- who loves us

Thinking determines:

- what we learn
- how we learn
- what we think is important to learn
- what effort we should expend
- what we think is true
- what we think is false
- how things should be viewed
- whether our learning is of high or low quality
- whether our learning is deep or superficial

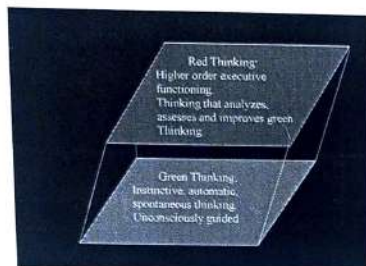
Everything we know, believe,
want, fear and hope for, our
thinking tells us.

- ☐ Think of some problem
behavior your students engage
in.
- ☐ See if you can identify the
thinking that leads to the
behavior.

THINKING
IS THE CORE OF
CURRICULUM

Critical Thinking
Is a Self-Directed Process
By Which We Take Deliberate
Steps
To Think at the Highest Level of
Quality.


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU



Critical Thinking is Not

In 1605, Francis Bacon, wrote the first book on critical thinking, *The Advancement of Learning*, in which he documented various forms of human irrationality and the need to establish new habits of thought through education.

Socrates 2,400 years ago discovered by a method of probing questioning that people often could not rationally justify their confident claims to knowledge.

Green Thinking

Unconscious Mixture Of High Quality

And Low Quality Thinking

Spontaneous	Subconscious	Uncontrolled
Impulsive	Self protecting	Unanalyzed
Reflexive	Self validating	

Includes ideas that are valid, as well as nonsense, confusion, stereotypes, prejudices. The key is that we cannot distinguish the difference between high and low quality thought in green thinking mode.

Green thinking goes without assessing itself.

Red Thinking

Red Thinking stops and assesses itself before going forward.

Disciplined	Seeks the truth	Self assessing
Critical Thinking	Self correcting	Probing

In red thinking mode, we actively work to eliminate prejudices, biases, dysfunctional thinking from our thinking. We actively work on our thinking.

We rigorously apply intellectual standards to our thinking.

The Critical Thinking Mind

=

The Educated Mind




Activity: What is Critical Thinking?

To be clear in writing:

- 1) state
- 2) elaborate (In other words...)
- 3) exemplify and/or illustrate

Write out the most important thing you know about critical thinking, in this form:

- 1) Critical thinking is
- 2) In other words...
- 3) For example of...


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636106
TAMILNADU

Think for Yourself: 1-1 Beginning to**Think About Your Thinking**

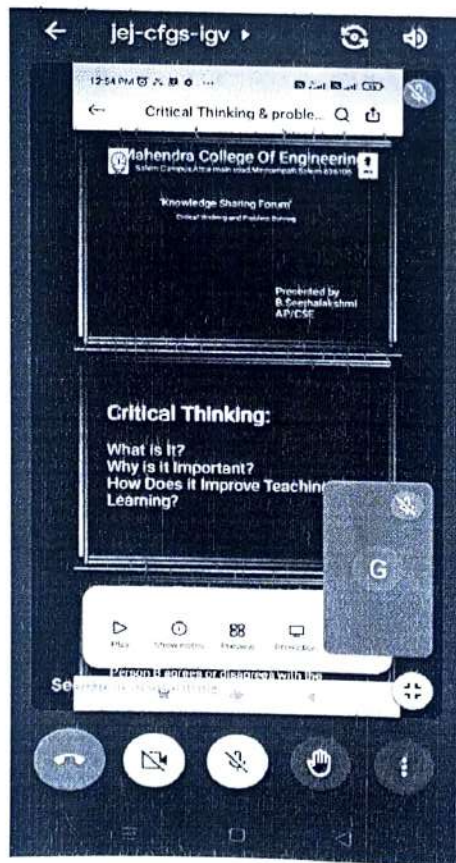
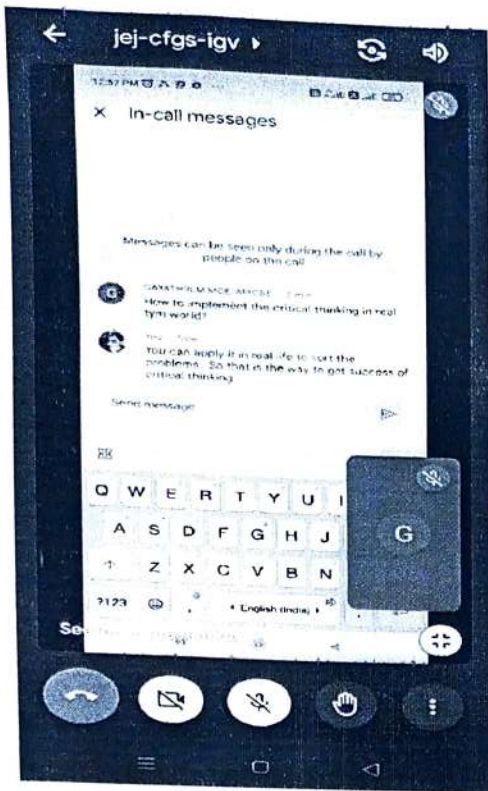
- To begin to think about your thinking, make a list of any problems you believe currently exist with your thinking. Try to be as explicit as possible. The more problems you identify the better. For each problem you identify, complete the following statements:
- 1. One problem with my thinking is...
- 2. This is a problem because...
- 3. If I adequately addressed this problem, the quality of my life would improve in the following ways...

<<<THANK YOU>>>.....

Think for Yourself: 1-2**Critique Your Thinking**

Consider your thinking in these domains of your life: at work, in personal relationships, in teaching, in intimate relationships, as a reader, as a writer, in planning your life, in dealing with your emotions, in figuring out complex situations. Complete these statements:

- Right now, I believe my thinking across all domains of my life is of _____ quality. I based this judgment on _____.
- 1. In the following areas, I think very well...
- 2. In the following areas, my thinking is OK, not great, but not terrible either...
- 3. In the following areas, my thinking is probably of low quality...
- List at least three areas for each of the above.




 PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106
 TAMILNADU

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>Critical thinking & problem Solving</u>	Name of the Presenter/s: <u>B. Seelhalakshi</u>
Today's Date: <u>12-03-2022</u>	Name of the Participant: <u>A.T. priyesh kumar</u>

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge				✓
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly				✓
Instructor Responded well to questions			✓	
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	
D. Any other comments or suggestions?	<u>No</u>

E. Overall, how would you rate this knowledge Form?




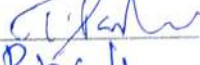



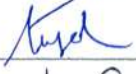
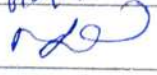
[] POOR [] FAIR [] GOOD [✓] EXCELLENT


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU


Signature of Participant

MAHENDRA COLLEGE OF ENGINEERING
Knowledge Sharing Forum
Attendance Sheet

Title : Critical Thinking & Problem Solving. Date : 12/03/2022

S.No	Name of the faculty	Department	Signature
1.	A. Nazeem Banu.	HOD/English	
2.	J. Helan Margaret Joy	AP/che	
3.	Dr. V. Madhuri	AP / Mathematics	V. Madhuri
4.	Dr. A. Prabhu	Physics	
5.	T. PARTHIBAN	AP/mech	
6.	Dr. R. Nandhaluman	Mech.	
7.	M. Ayyanar	AP/Physics	M. Ayyanar
8.	Dr. C. Kamal	AP/Chemistry	C. Kamal
9.	Dr. B. Balaji	AP. English	B. Balaji
10.	Dr. M. Harichand	ASP/Mech	
11.	A.T. Priyesh Kumar	AP/BME	A.T. Priyesh Kumar
12.	P. Shanmuga priya	AP/IT	
13.	A. Anyabolu	AP/CSE	
14.	A. INDHUJA	AP/CSE	A. Indhuja
15.	M. Gayathri	AP/CSE	Gayathri M
16.	N. Lakshmi V	AP/CSE	



MAHENDRA
COLLEGE OF ENGINEERING

Affiliated to Anna University and Approved by AICTE



The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

PRESENTED

DATE: 03.06.2022

SESSION: 10.00 am to 11.30 am

Ms. GAYATHRI. M

Assistant Professor-CSE

TOPIC: BRAINSTORMING FOR IDEAS

Will be the resource persons

Dr. N. MOHANA SUNDARARAJU

Principal

Mahendra college of Engineering



[s://meet.google.com/hqh-oyes-gzy](https://meet.google.com/hqh-oyes-gzy)


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

'KNOWLEDGE SHARING FORUM'

Brainstorming for ideas

M.GAYATHRI
AP/CSE

Brainstorming

What is it?

- A gathering of ideas from your brain onto paper.
- The variety of ideas and the use of your imagination assist you in producing a lot of material with which to work.

Why do we need it?

- It's the best way to collect your thoughts.
- It's helpful for organization.
- It ensures only quality ideas are used in the essay.



Brainstorming



Brainstorming Technique

Number One

"This paper is supposed to be on the politics of tobacco production but even though I went to all the lectures and read the book I can't think of what to say and I've felt this way for four minutes now and I have 11 minutes left and I wonder if I'll keep thinking nothing during every minute but I'm not sure if it matters that I am babbling and I don't know what else to say about this topic and it is rainy today and I never noticed the number of cracks in that wall before and those cracks remind me of the walls in my grandfather's study and he smoked and he farmed and I wonder why he didn't farm tobacco."


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

Brainstorming Technique

Freewriting

Options:

Write for a specific time period

Write for a specific amount of paper



Brainstorming Technique

Number Two

MAKING A CUBE:

What is it?

Imagine a cube. It has six sides. On each side, you have a different task regarding the topic.



Brainstorming Technique



When is it helpful?

When you have NO ideas about a topic

When you have TOO MANY ideas about a topic



Brainstorming Technique

MAKING A CUBE

Side One: Describe the topic.

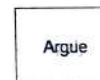
Side Two: Compare the topic.

Side Three: Associate the topic.

Side Four: Analyze the topic.

Side Five: Apply the topic.

Side Six: Argue for or against the topic.



PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

Brainstorming Technique

Number Three

Clustering:

What is it?

When you write down words or concepts associated with the topic – any ideas that come into your mind

Brainstorming Technique

Number Three

Clustering

Draw a bubble. And write the topic above it.

Brainstorm!

Now look for words that connect with each other. Circle the words and connect them with lines.

Brainstorming Technique

Number Four

Listing or Bulleting

What is it?

Create a list of terms/ideas/concepts about the topic. Create multiple lists depending on the purpose.

Global Warming

- Toxic fumes
- SUVs/Cars
- Extinction
- Belief/Disbelief
- Kyoto Agreement

Belief/Disbelief

- Scientists disagree
- Average American
- China/USA
- Normal occurrence or abnormal event?

Brainstorming Technique

Number Five

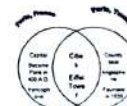
Venn Diagram:

What is it?

Draw two circles that connect, like this:

List two topics above the circles.

Brainstorm about the topics – what do they have in common and what is unique about each one.



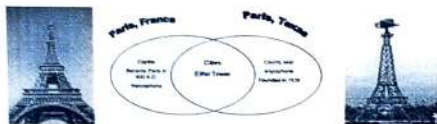
M
PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106
 TAMILNADU

Brainstorming Technique

Venn Diagram

When is it used?

When you are writing a comparison or contrast essay.



Brainstorming Technique

Number Six

TREE DIAGRAM:

What is it?

This diagram has a central idea to which you add branches that focus on details.

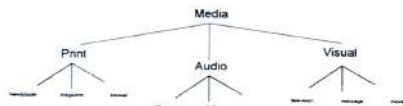


Brainstorming Technique

TREE DIAGRAM:

When do you use it?

This type of diagram is helpful in classification essays.



Brainstorming Technique

Number Seven

Act like a Journalist:

What is it?

Using the question words in English to explore the topic.



ND
PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMIL NADU

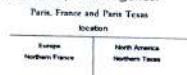
Brainstorming Technique

Number Eight

T-DIAGRAM:

□ What is it?

- Using a T shape, list a category that you want to compare or contrast about a specific topic or topics. Do this for a variety of categories.



SPOKE DIAGRAM:

A spoke diagram describes the central idea or components using related items and concepts. It is similar to a bubble diagram with one circle in the middle to represent the central item of the diagram and multiple circles around the middle circles to represent the other items related to it.



Brainstorming Technique

T-DIAGRAM:

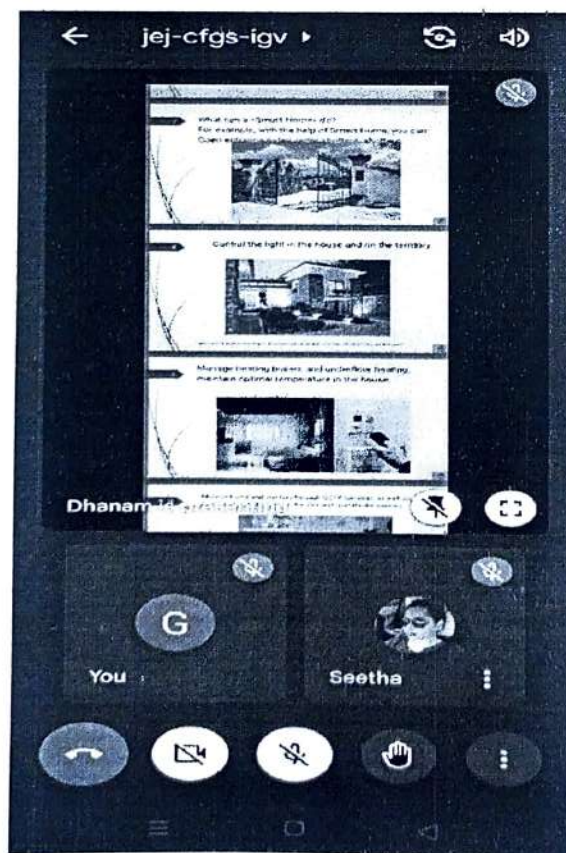
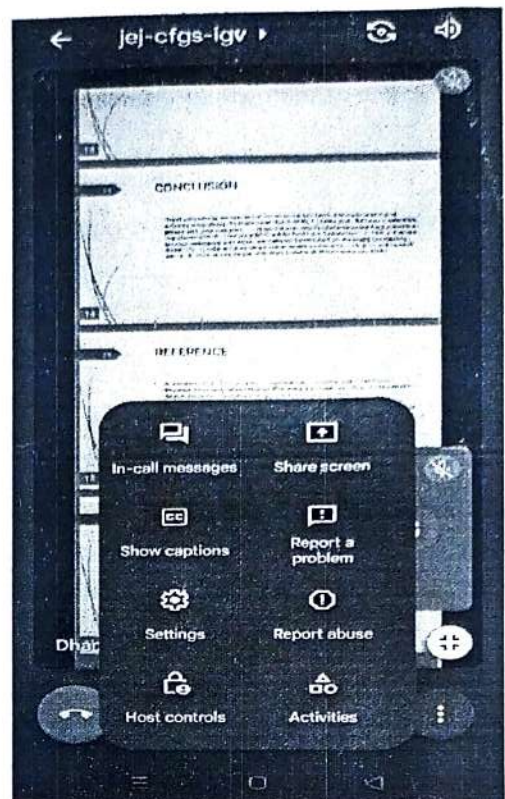
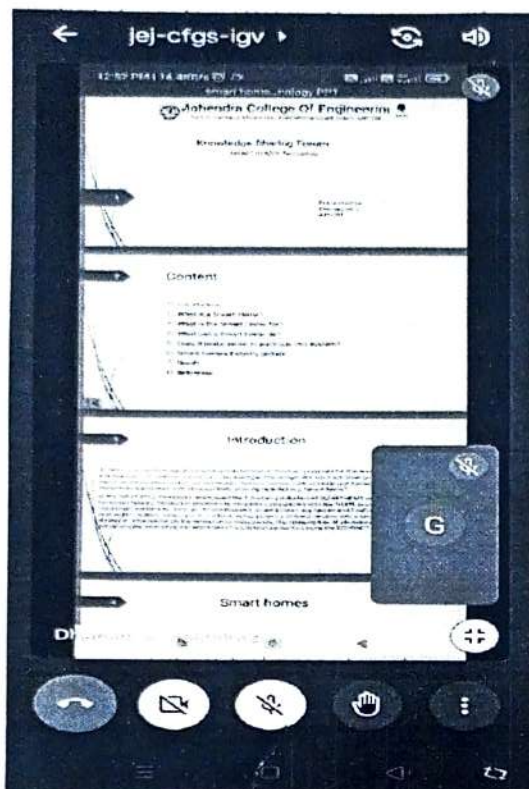
When is it useful?

This technique helps when you are writing a contrast or comparison essay.



THANK YOU...

N. N.
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus, 5
Minnampalli, SALEM 636 106
TAMILNADU




PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106
 TAMILNADU

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>Brainstorming for Ideas</u>	Name of the Presenter/s : <u>M. Grayathri</u>
Today's Date: <u>03.06.2022</u>	Name of the Participant: <u>Dr. R. Nandhalumma</u>

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge				✓
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly			✓	
Instructor Responded well to questions				✓
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	
D. Any other comments or suggestions?	<u>NIL</u>

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [✓] EXCELLENT


Signature of Participant










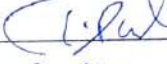






PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

Mahendra College of Engineering

MAHENDRA COLLEGE OF ENGINEERING
Knowledge Sharing Forum
Attendance Sheet

Title: Brainstroming for ideas

Date: 03/06/2022

S.No	Name of the faculty	Department	Signature
1.	P. PARAMESWARI	AP / Maths	
2.	J. Helan Margaret Joy	Ap/che	
3.	Dr. A. Prabhu	ASP/PHY	
4.	Dr. M. Harichandran	ASP / Mech	
5.	P. Gopi	ASP / Mech	
6.	M. Ayyanar	AP / Physics	
7.	Dr. R. Nandhakumar	Mech	
8.	Dr. C. Kamal	AP / Chemistry	
9.	Dr. B. Baijaj	AP English	
10.	T. PARTHIBAN	AP / Mech	
11.	V. DEEPA	AP / CSE	
12.	P. Shanmuga priya	AP / IT	
13.	A. JINDAUJA	AP / CSE	
14.	L. VINITHA SREB	AP / CSE	
15.	Nishadri-v	AP / CSE	


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106
 TAMILNADU



MAHENDRA
COLLEGE OF ENGINEERING
Affiliated to Anna University and Approved by AICTE



The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

PRESENTED

DATE: 26.08.2022

SESSION: 10.00 am to 11.30 am

Ms.V.DHANAKODI

Assistant Professor-CSE

TOPIC: SMART HOMES TECHNOLOGY

Will be the resource persons

Dr. N. MOHANA SUNDARARAJU

Principal

Mahendra college of Engineering



[s://meet.google.com/hqh-oyes-gzy](https://meet.google.com/hqh-oyes-gzy)


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU



Mahendra College Of Engineering

Salem Campus, Attar road, Minnampalli, Salem-636106



KNOWLEDGE SHARING FORUM SMART HOMES TECHNOLOGY

Presented by
Dhanyakodi.V
AP/CSE

Content

- 1) Introduction
- 2) What is a Smart Home?
- 3) What is the Smart Home for?
- 4) What can a Smart Home do?
- 5) Does it make sense to purchase this system?
- 6) Smart Homes Industry update
- 7) Result
- 8) Reference

Introduction

- In 1995, Japan's technology development predicted one of the main purposes for this technology is to increase the intelligence of household appliances - for example, the refrigerator itself will order products from the store. This idea has not received industrial distribution, but companies such as Miele and Siemens are already releasing household appliances with the possibility of being included in a "smart home".
- In the fall of 2012, Panasonic announced the full-scale production of SMARTHEMS energy management systems for smart homes. Panasonic promises to introduce compatibility with the HEMS system in its entire line of household appliances, such as air conditioners, smart kitchen appliances and EcoCute hot water systems. The new AISEG system allows you to connect all equipment and home devices into a single network by organizing the display of information on the operation of solar panels, the consumption of electricity, gas and water and automatically controlling the operation of household appliances using the ECHONET Lite protocol.

Smart homes

- The Smart Home system is a high-tech system that allows you to combine all communications into one and put it under the control of artificial intelligence, programmable and customizable to all the needs and wishes of the owner.

PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636106
TAMILNADU

What is a Smart Home?

The term "Smart Home" is usually understood as the integration of systems, equipment and components into a single intelligent home control system.

This system includes:

- ☐ Heating, ventilation and air conditioning system
- ☐ Lighting system
- ☐ Building power supply system
- ☐ Security and monitoring system



What is the "Smart Home" for?

Any of us at least for a moment thought: "How good it would be ...". Smart home is a complex of electronic systems that make life in the house more comfortable. SH shows the status of all engineering systems at home and allows you to conveniently manage them. It is a natural and understandable desire to increase comfort, safety and economy in everyday life that led to the emergence of such a system.



You can control SH from any platform: from a smartphone to various PC



What can a «Smart Home» do?

For example, with the help of Smart Home, you can:
Open entrance gates, roller shutters, shutters.



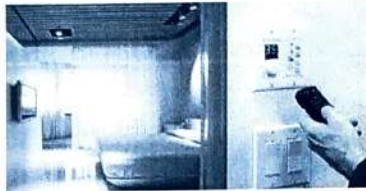
Control the light in the house and on the territory



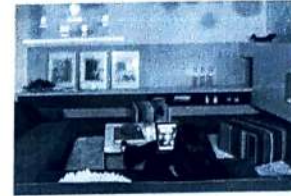
Light can be ignited, reacting to the approach of people, and turn off when they are removed.



Manage heating boilers and underfloor heating, maintain optimal temperature in the house.



Monitor home and territory through CCTV cameras, as well as replace all remote controls for TVs and multimedia devices



The picture can be transmitted in real time to the screen of a phone, tablet or laptop



Does it make sense to purchase this system?

• If the system will pay for itself completely at the very moment when it prevents emergencies, fire, flooding, gas leakage, penetration of strangers onto the object, etc.

• Also, with the help of "Smart Home", you can remotely monitor your home, for example, while on vacation, with the ability to control devices, lights, climate from any mobile device or PC.



To summarize, we can say that, using an intelligent control system, you constantly keep your finger on the pulse of all the systems in your home.



Smart Homes Industry Updates

- After what felt like several hours of being lost at sea in a crowd of attendees, slot machines, and exhibit booths, I finally found my way to the Smart Home space on level 2 of the Sands Expo (hosted in the Venetian). The Sands Expo had a very modern-day bazaar/startup vibe to it. I couldn't walk more than a few feet without getting distracted by an obscure piece of smart home tech or being offered a 1:1 product demo by an all too eager exhibitor.

CONCLUSION

- Rapid adoption by consumers of smart home devices is driving research and industry innovations. To learn more about IIWVJ Journal and UbComp conference, please visit their websites: <https://dl.acm.org/journal/iwvuj> and <http://ubcomp.org/ubcomp0005/>. UbComp 2020 will be held from September 12-14th in Cancun, Mexico, collocated with ACM International Symposium on Wearable Computers (ISWC'20). To take in future smart home industry advances, CES 2021 will be held Jan. 6-9, 2021, in Las Vegas. Visit their website at <https://www.ces.tech/>

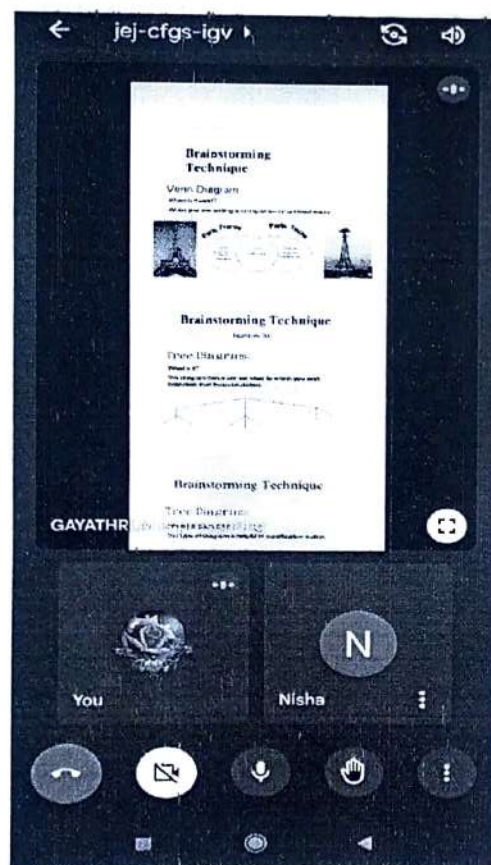
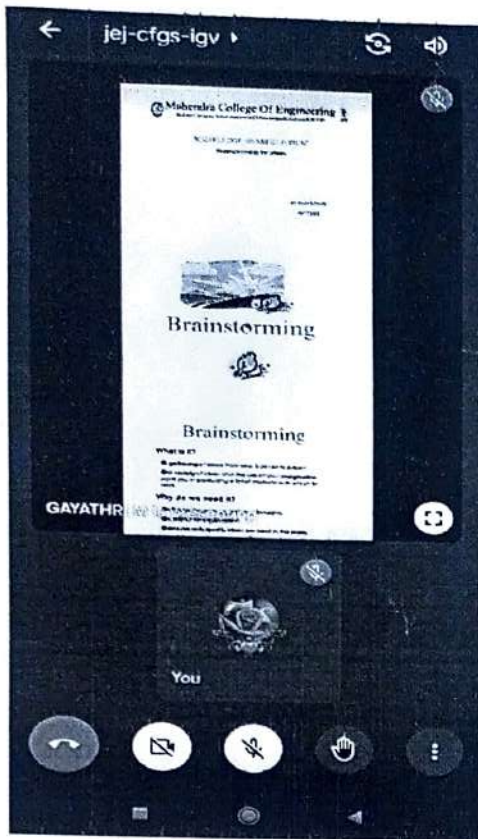
REFERENCE

- A. Kaghadi, S. Z. Homayounfar, J. Gummesson, T. Andrew and D. Ganesan, "PhyGym: Physiological sensing via fiber-enhanced ayamat", Proc. ACM Interact. Mobile Wearable Ubiquitous Technol., vol. 3, no. 3, Sep. 2019.
- C. Liu, J. Xiang, L. Cai, L. Feng, X. Chen and D. Fang, "Beyond respiration: Contactless sleep sound activity recognition using RF signals", Proc. ACM Interact. Mobile Wearable Ubiquitous Technol., vol. 3, no. 3, Sep. 2019.
- S. Pradhan, W. Sun, G. Baig and L. Qiu, "Combating replay attacks against voice assistants", Proc. ACM Interact. Mobile Wearable Ubiquitous Technol., vol. 3, no. 3, Sep. 2019.

Thanks for attention!



PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU



KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <i>SMART HOMES TECHNOLOGY</i>	Name of the Presenter/s : <i>V. Dhanakodi</i>
Today's Date: <i>26.08.2022</i>	Name of the Participant: <i>D.M. Haridas</i>

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style		✓		
Instructor Covered Material Clearly		✓		
Instructor Responded well to questions		✓		
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	
D. Any other comments or suggestions?	<i>NIL</i>

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] ☒ GOOD [] EXCELLENT

[Signature]
26/08/22
Signature of Participant




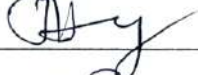


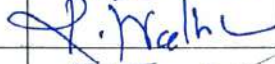



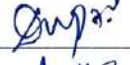


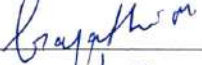





[Signature]
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

Mahendra College of Engineering

MAHENDRA COLLEGE OF ENGINEERING
Knowledge Sharing Forum
Attendance Sheet

Title: Smart Homes Technology

Date: 26/09/2022

S.No	Name of the faculty	Department	Signature
1.	T. RAJA	Mathematics	
2.	D. VIDHYA	MATHEMATICS	
3.	D. Naseem Banu	English	
4.	J. Helen Margaret Joy	Chemistry	
5.	D. A. Raju	Physics	
6.	Dr. M. Handare	Mech	
7.	Dr. R. Nandhalumma	Mech	
8.	P. Gopi	Mech	
9.	T. PARTHIBAN	AP/mech	
10.	A. T. Priyeshkumar	API/BMC	
11.	V. DEEPA	AP/CSE	
12.	P. Shanmuga priya	AP/IT	
13.	A. Anjali	AP/CSE	
14.	M. Gayathri	AP/CSE	
15.	K. Vinita Sree	AP/CSE	
16.	B. Sutha Lakshmi	AP/CSE	
17.	Dr. R. REKA	ASP/CSE	
18.	NISHADEVI. V	AP/CSE	
19.	R. CHANDIRAN	AP/MECH	



MAHENDRA **COLLEGE OF ENGINEERING**

Affiliated to Anna University and Approved by AICTE

The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

Date : 26.02.2022

Session Time : 09.30 am to 10.30 am

ROLE OF SCIENCE AND TECHNOLOGY AND ITS IMPACT ON HUMAN LIFE

Presented by

Mrs.K.JAYANTHI

Assistant Professor-Dept of ECE

Will be the resource persons

in the presence of

Dr. N.MOHANA SUNDHARA RAJU

Principal,

Mahendra College of Engineering



Google Meet

[https:// meet.google.com/bys-cmfn-gdm](https://meet.google.com/bys-cmfn-gdm)


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampatti, SALEM-636 106

ROLE OF SCIENCE AND TECHNOLOGY AND ITS IMPACT ON HUMAN LIFE

Presented by
Mrs.K.Jayanthi,
AP/ECE
MCE, SALEM

SCIENCE and TECHNOLOGY

- ↳ Life in the past and now
- ↳ Scientific inventions and discoveries
- ↳ Practical technologies
- ↳ Misuse of science and technology
- ↳ Science and technology in the future

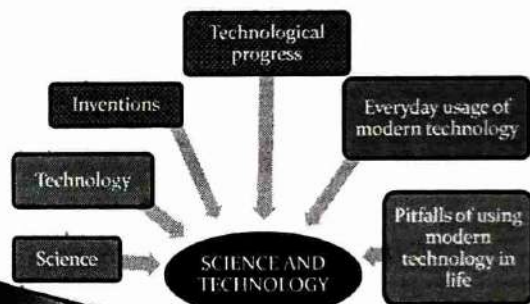
Comment on the following quotations.

The science of today is the technology of tomorrow.
Edward Teller

Modern technology
Owes ecology
An apology.

Alan M. Eddison

Brainstorm the vocabulary connected with the following subtopics:



Which gadgets and inventions from the pictures do you use everyday? What do you use them for?



Which of them can't you imagine your life without? Explain.

Name the inventions in these pictures.



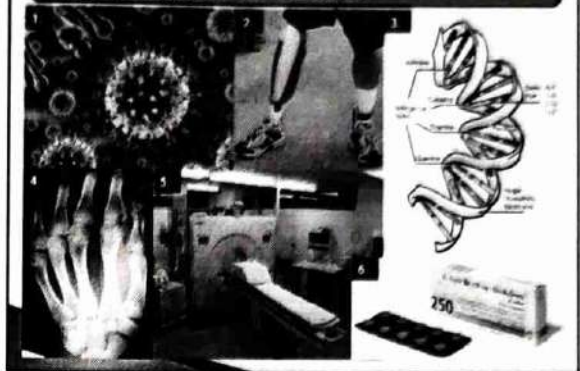
What impact did they have on mankind?

N.V.
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM-636 106

Name the inventions and gadgets used in the kitchen.



Why are these inventions and discoveries in medicine important for mankind?



Compare and contrast the means of travel in the past and today.



How will the means of travel change in the future?
What kind of fuel will be used?

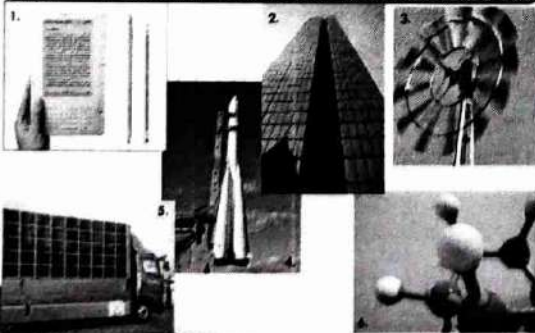
Match the negative aspects of using technology in everyday life with the inventions shown in the pictures.



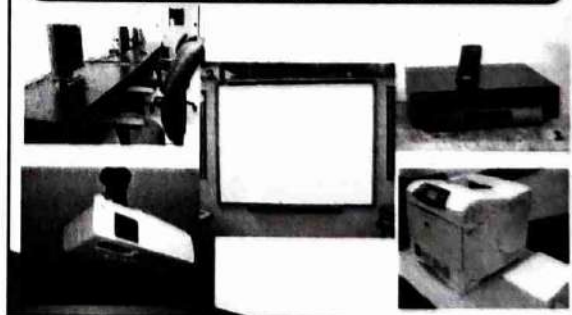
loneliness
health problems
addiction
unemployment

Name some other threats in using modern technologies

How will science and technology change the life of people in the future? The pictures below can help you.

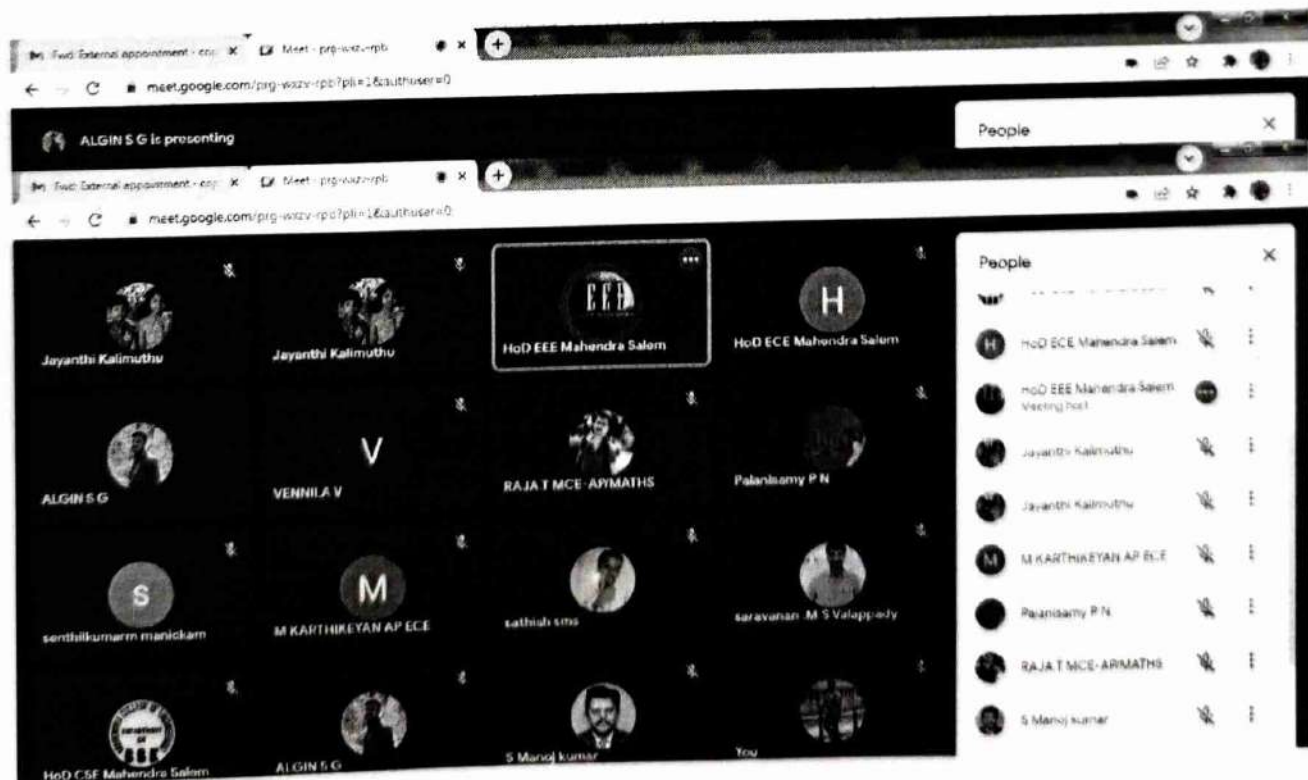
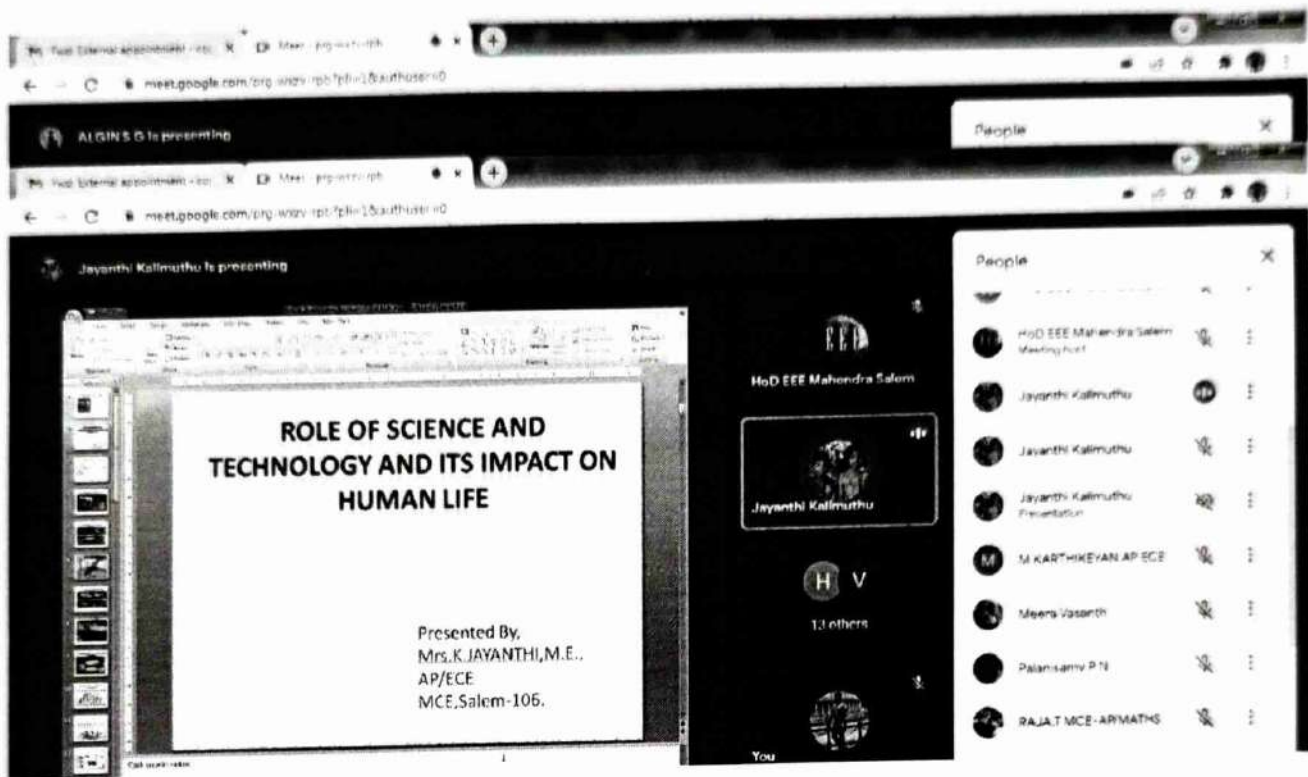


Look at the pictures below (you can add more ideas) and suggest a modern classroom for teaching languages. Explain the importance of each of the gadgets and the way they will be used.

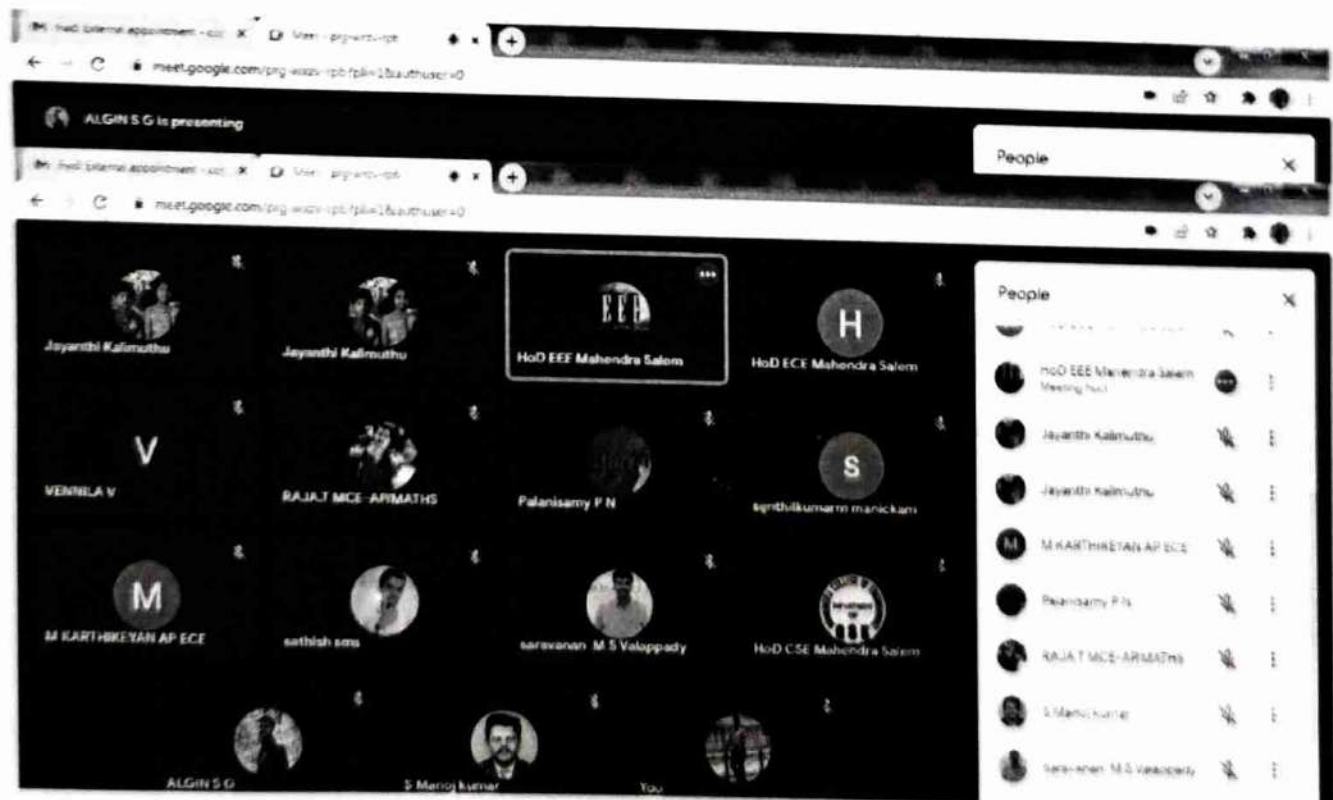
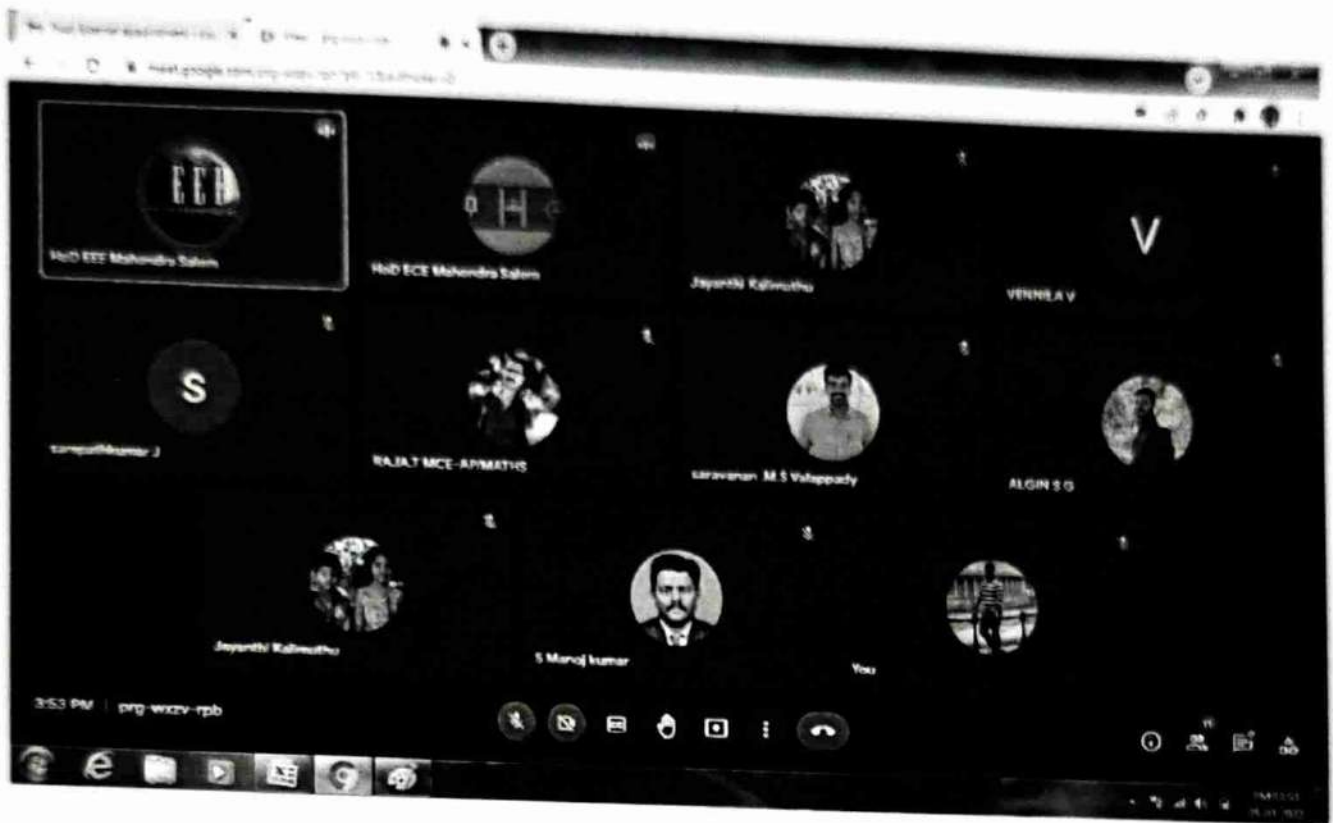


SCREEN SHOTS OF THE PRESENTATION

ROLE OF SCIENCE AND TECHNOLOGY AND ITS IMPACT ON HUMAN LIFE



N. V.
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnempalli, SALEM-636 106



PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM-636 106

Google Meet Attendance

1	Attendance for:	Class List
2	Date:	"2021-08- "Time:" "10:35" "Meet ID: "hhx-eimo-csv"
3		
4	Names	"2021-08- "Email" "Commer "Arrival ti "Last Seen " # of Chet "Joined" "Details"
5	Ravishankar.T Mce-Ap/Civil	"✓" "" "" "" "10:38" "11:02" "45" "1"
6	Muthukumar.S Mce-Ap/Civil	"✓" "" "" "" "10:44" "11:03" "38" "1"
7	Harikaran.M Mce-Ap/Civil	"✓" "" "" "" "10:35" "11:01" "85" "1"
8	Manisekar.A Mce-Ap/Civil	"✓" "" "" "" "10:40" "11:02" "41" "2" "10:40 (35 11:01 (2min) [11:02]
9	Meenakshi.S Mce-Ap/Ece	"✓" "" "" "" "10:36" "11:01" "79" "1"
10	Inba Arasi.M Mce-Ap/Ece	"✓" "" "" "" "10:41" "11:02" "34" "1"
11	Latha.p.s Mce-Ap/Cse	"✓" "" "" "" "10:35" "11:02" "50" "1"
12	Rameshkumar.S Mce-Ap/Mech	"✓" "" "" "" "10:38" "11:01" "43" "3" "10:38 (35 11:01 (1mi 11:59 (3min) [11:01]
13	Obuli Ranganathan.O. Mce-Ap/Ece	"✓" "" "" "" "10:35" "11:38" "18" "2" "11:31 (8r 10:35 (10min) [10:44]
14	Balaji.D Mce-Ap/Ece	"✓" "" "" "" "10:38" "11:01" "38" "2" "11:59 (3r 10:38 (35min) [11:58]
15	Panneerselvam.p Mce-Ap/Mech	"✓" "" "" "" "10:35" "11:02" "36" "1"
16	Rajaram.k Mce-Ap/Mech	"✓" "" "" "" "10:35" "11:02" "37" "1"
17	Rameshkumar.s Mce-Ap/Mech	"✓" "" "" "" "10:35" "11:01" "84" "1"
18	C.Kannan.Mce-Ap/Mech	"✓" "" "" "" "10:36" "11:02" "49" "2" "11:17 (4r 10:36 (3min) [10:38]
19	Prabu.S Mce-Ap/Mech	"✓" "" "" "" "10:36" "11:02" "32" "1"
20	Govindaraj.M Mce-Ap/Mech	"✓" "" "" "" "10:43" "10:43" "1" "1"
21	Ganesh Raja.S.Mce-Ap/Mech	"✓" "" "" "" "10:35" "11:02" "77" "1"
22	Palanisamy.P.N Mce-Ap/Ece	"✓" "" "" "" "10:36" "11:01" "44" "1"
23	Hod Civil Mahendra Salem	"✓" "" "" "" "10:35" "11:03" "80" "1"
24	Prabavathi Mk Mce-Ap/Bme	"✓" "" "" "" "10:35" "11:02" "38" "2" "11:29 (34 10:35 (4min) [10:38]
25	Sakthivel.M Mce-Ap/Mech	"✓" "" "" "" "10:36" "11:02" "35" "1"
26	Hod Ece Mahendra Salem	"✓" "" "" "" "10:40" "11:02" "53" "1"
27	Thangaraju.MMce-Ap/Maths	"✓" "" "" "" "10:35" "10:40" "6" "1"
28	Nandhakumar.KMce-Ap/Maths	"✓" "" "" "" "11:08" "11:02" "35" "1"
29	Priya.T Mce-Ap/Bme	"✓" "" "" "" "10:35" "11:01" "76" "1"
30	Baskar.R Mce-Ap/Bme	"✓" "" "" "" "10:41" "11:01" "39" "1"
31	John Bosco.P Mce-Ap/Ece	"✓" "" "" "" "10:38" "11:01" "38" "3" "11:34 (9r 10:38 (16n 11:49 (13min) [11:01]
32	Jenolin Rex.M Mce-Ap/Cse	"✓" "" "" "" "11:31" "11:02" "32" "1"
33	Suresh.R Mce-Ap/Maths	"✓" "" "" "" "11:24" "11:01" "34" "1"
34	Vijayalakshmi.A Mce-Ap/Cse	"✓" "" "" "" "10:39" "11:05" "85" "3" "11:37 (13 11:31 (35n 10:39 (37min) [11:05]
35	Meera.S Mce-Ap/Ece	"✓" "" "" "" "10:39" "11:02" "42" "1"
36	Madhusudan.S Mce-Ap/Ece	"✓" "" "" "" "10:39" "11:02" "42" "1"
37	Priyadevi.KMce-Ap/Ece	"✓" "" "" "" "10:39" "11:02" "42" "1"
38	Hod Cse Mahendra Salem	"✓" "" "" "" "10:39" "11:02" "42" "1"
39	Monisha.S Mce-Ap/Ece	"✓" "" "" "" "10:39" "11:02" "42" "1"
40	Kokila.SMce-Ap/Maths	"✓" "" "" "" "10:39" "11:02" "42" "1"
41	Sankar.A Mce-Ap/Mech	"✓" "" "" "" "10:39" "11:02" "42" "1"
42	J.Ram Kumar Mce-Ap/Ece	"✓" "" "" "" "10:39" "11:02" "42" "1"
43	Hod Ece Mahendra Salem	"✓" "" "" "" "10:39" "11:02" "42" "1"
44	Karthigaswathini.S.Mce-Ap/Ece	"✓" "" "" "" "10:39" "11:02" "42" "1"
45		
46		
47	Help/more info:	"https://tinyurl.com/y5peu3nk"
48	© Google Meet Attendance	https://tinyurl.com/v6kr2unt


PRINCIPAL
Mabendra College of Engineering
Mabendra Salem Campus,
Minnampalli, SALBM-636 106

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Role of Science and Technology and its impact on human Life.
 Today's Date: 26.5.22 Name of Presenter/s: M. K. Jayanthi
 Name of Participant: K. Priyadharini

For the following areas, please indicate your rating:

A. Presentation	1 Fair	2 Medium	3 Good	4 Excellent
Instructor's knowledge				✓
Instructor's presentation style			✓	
Instructor covered material clearly				✓
Instructor responded well to questions			✓	
Instructor facilitated interactions among participants well				✓

C. How could this Knowledge Sharing Forum be improved?	Excellent
D. Any other comments or suggestions?	NIL

E. Overall, how would you rate this knowledge forum?

[] POOR [] FAIR [✓] GOOD [] EXCELLENT


 Signature of Participant


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM-636 106

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Role of Science and Technology & its impact on human life
 Today's Date: 26.2.2022 Name of Presenter/s: H.K. Jayanthi
 Name of Participant: H. Govindaraj

For the following areas, please indicate your rating:

A. Presentation	1 Fair	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style				✓
Instructor covered material clearly			✓	
Instructor responded well to questions				✓
Instructor facilitated interactions among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	Good
D. Any other comments or suggestions?	NIL

E. Overall, how would you rate this knowledge forum?

☐ POOR

☐ FAIR

☐ GOOD

☒ EXCELLENT

H. Govindaraj
Signature of Participant

N.V.
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM-636 106



MAHENDRA **COLLEGE OF ENGINEERING**

Affiliated to Anna University and Approved by AICTE

The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

Date : 13.05.2022

Session Time : 09.30 am to 10.30 am

ISSUES AND CHALLENGES OF WOMEN EMPOWERMENT IN INDIA

Presented by

Mrs.S.MEERA

Assistant Professor-Dept of ECE

Will be the resource persons

in the presence of

Dr. N.MOHANA SUNDHARA RAJU

Principal,

Mahendra College of Engineering



Google Meet

[https:// meet.google.com/bys-cmfn-gdm](https://meet.google.com/bys-cmfn-gdm)


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minampatti, SALEM-636 106

ISSUES AND CHALLENGES OF WOMEN EMPOWERMENT IN INDIA

PRESENTED BY
Mrs. K. Jaya
AP/EC

INTRODUCTION:

- Today the empowerment of women has become one of the most important concerns of 21st century
- From early twenty century (national movement) their statuses have been changed slowly and gradually.
- The study reveals that women of India are relatively disempowered and they enjoy somewhat lower status than that of men in spite of many efforts undertaken by government. Gender gap exists regarding access to education and employment. Household decision making power and freedom of movement of women vary considerably with their age, education and employment status.
- It is found that acceptance of unequal gender norms by women are still prevailing in the society. Rural women are more prone to domestic violence than that of urban women. A large gender gap exists in political participation too.

WHAT IS THE MEANING OF EMPOWERMENT?

World Bank says that:

"EMPOWERMENT" is the process of increasing the capacity of individuals or groups to make choices and to transform those choices into desired actions and outcomes

- Women empowerment means emancipation of women from the vicious grips of social, economical, political, caste and gender-based discrimination. It means granting women the freedom to make life choices.
- Women empowerment does not mean 'deifying women' rather it means replacing patriarchy with parity.

MAHATMA GANDHI'S VIEW ON WOMEN EMPOWERMENT

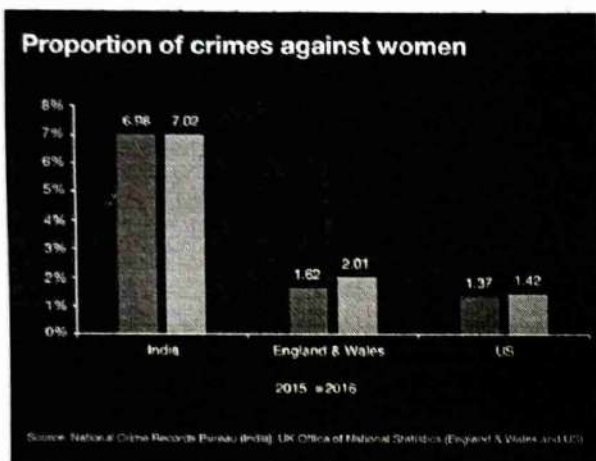
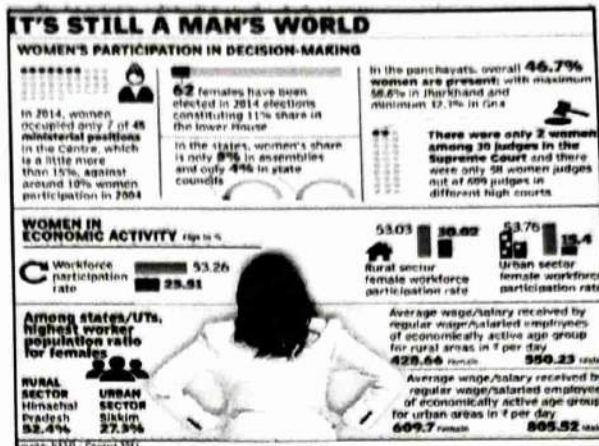
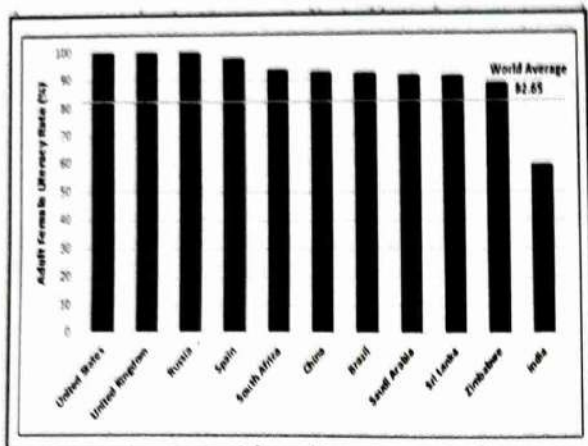
- In Gandhian view, "empowerment may mean equal status to women and provide opportunity and freedom to develop them
- Gandhi said... "the goal of empowerment he believes, depends on the threefold revaluation: Firstly, to change in their lives; secondly, to create a change in their lives ; and thirdly, to change the social structure."

- Gandhiji believed that India's salvation depends on the sacrifice and enlightenment of her women.
- Traditionally, woman has been called *abala* (without strength). In Sanskrit and many other Indian languages *bala* means strength. *Abala* means one without strength. If by strength we do not mean brutish strength, but strength of character, steadfastness, and endurance, she should be called *sabala*, strong.
- His message almost six decades ago at the All India Women's Conference on December 23, 1936 was: "When woman, whom we call *abala* becomes *sabala*, all those who are helpless will become powerful."

STATUS OF WOMEN IN INDIA:

- The empowerment of women has become one of the most important concerns of 21st century. But practically women empowerment is still an illusion of reality
- Being equal to their male counterparts is still a far cry for Indian women
- Here is the status of Women in India:
- POPULATION:
 - As per Census 2011, India's population was 121.06 Cr and the females constituted 48.5% of it
- LITERACY AND EDUCATION:
 - As per Census 2011, the literacy rate at all India level was 72.98% and the literacy rate for females and males are 64.63% and 80.9% respectively
- PARTICIPATION IN ECONOMY:
 - In 2011, the Workforce Participation Rate at all India level was 25.51% for female and 53.26% for males
- PARTICIPATION IN DECISION MAKING:
 - As in 2016, women ministers constituted 12% in Central Council of Ministers (9 out of 75).
 - In the 16th Lok Sabha, 12% of the total members are women (64 out of 534).
 - In 2015, the share of women judges in Supreme Court was 4% (1 out of 26) and it was 10% (54 out of 517) considering all High Courts in India.
 - In 2016, at all India level 46% of the elected representatives in Panchayati Raj institutions are women.


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM-636 106



CRIME AGAINST WOMEN

The National Crime Records Bureau (NCRB) has released the annual Crime in India Report 2017 on October 28, after a delay of two years. According to the report, a total of 3,59,849 cases were reported against women in 2017. In comparison, in 2016, 3.38 lakh cases of crime were registered against women, while 3.2 lakh cases were recorded in 2015. The number of cases reported has increased. Looking at state-wise data, Uttar Pradesh has again topped the list with 56,011 cases of crime against women. It is followed by Maharashtra with 31,979 cases and West Bengal at 30,002.

Crimes against women constitute murder, rape, dowry death, suicide abetment, acid attack, cruelty against women and kidnapping. 'Cruelty by husband or his relatives' accounts for 27.9 per cent of the crimes against women. Majority of the cases are filed under this IPC section shedding light on the high prevalence of domestic violence in the country.

NEED AND IMPORTANCE OF WOMEN EMPOWERMENT

- ❖ There is inequality and vulnerability of women in all sphere of life.
- ❖ They need to be empowered in all walks of life.
- ❖ Without the active participation of women, establishment of a new social order may not be a successful one because women constitute half of the population.
- ❖ Women should realize that they have constitutional rights to quality health care, economic security, and access to education and political power.

NEED FOR THE EMPOWERMENT OF WOMEN

Why Women Empowerment is Important?

1. Under-employed and unemployed
2. Equally competent and intelligent
3. Talented
4. Overall development of society
5. Economic Benefit
6. Reduction in domestic violence
7. Reduction in corruption
8. National Development

N. V. J.
PRINCIPAL
 Mabendra College of Engineering
 Mabendra Salem Campus,
 Minnampalli, SALEM-636 106

CHALLENGES

There are several challenges that are plaguing the issues of women's right in India.

Targeting these issues will directly benefit the women's empowerment in India

HURDLES AND CHALLENGES IN EMPOWERMENT OF WOMEN

- Poverty
- Literacy
- Computer literacy
- Socio-Cultural aspects
- Early marriages & Many children
- Language barriers
- Spending patterns
- Ownership

1. EDUCATION:

- While the country has grown from leaps and bounds since independence where education is concerned.
- The gap between women and men is severe. While 82.14% of adult men are educated, only 65.46% of adult women are known to be literate in India. The gender bias is in higher education, specialized professional trainings which hit women very hard in employment and attaining top leadership in any field

2. POVERTY:

- Poverty is considered the greatest threat to peace in the world, and eradication of poverty should be a national goal as important as the eradication of illiteracy. Due to this, women are exploited as domestic helps.

3. HEALTH AND SAFETY:

- The health and safety concerns of women are paramount for the wellbeing of a country and are an important factor in gauging the empowerment of women in a country. However there are alarming concerns where maternal healthcare is concerned

4. PROFESSIONAL INEQUALITY:

- This inequality is practiced in employment and promotions. Women face countless handicaps in male customized and dominated environs in Government Offices and Private enterprises.


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minampalli, SALEM-636 106

5. MORTALITY AND INEQUALITY:

- Due to gender bias in health and nutrition there is unusually high mortality rate in women reducing their population further especially in Asia, Africa and China.

6. HOUSEHOLD INEQUALITY:

- Household relations show gender bias in infinitesimally small but significant manners all across the globe, more so, in India e.g. sharing burden of housework, childcare and menial works by so called division of work.

WHY NEED A WOMEN EMPOWERMENT

- Reflecting into the "Vedas Purana" of Indian culture, women is being worshiped such as LAXMI MAA, goddess of wealth; SARSWATI MAA, for wisdom; DURGA MAA for power.
- The status of women in India particularly in rural areas needs to address the issue of empowering women. About 66% of the female population in rural area is unutilized.
- This is mainly due to existing social customs. In agriculture and Animal care the women contribute 90% of the total workforce.
- Women constitute almost half of the population, perform nearly 2/3 of its work hours, receive 1/10th of the world's income and own less than 1/100th of the world property. Among the world's 900 million illiterate people, women outnumber men two to one. 70% of people living in poverty are women. Lower sex ratio i.e. 933. The existing studies show that the women are relatively less healthy than men though belong to same class.
- They constitute less than 1/7th of the administrators and managers in developing countries.
- Only 10% seats in World Parliament and 6% in National Cabinet are held by women

WAYS TO EMPOWER WOMEN:

- Changes in women's mobility and social interaction
- Changes in women's labour patterns
- Changes in women's access to and control over resources
- Changes in women's control over Decision making
- Providing education
- Self employment and Self help group

WOMEN EMPOWERMENT SCHEMES:

1. Beti Bachao Beti Padhao Scheme
2. One Stop Centre Scheme
3. Women Helpline Scheme
4. UJJAWALA: A Comprehensive Scheme for Prevention of trafficking and Rescue, Rehabilitation and Re-integration of Victims of Trafficking and Commercial Sexual Exploitation
5. Working Women Hostel
6. Rajiv Gandhi National Creche Scheme for the Children of Working Mothers
7. Ministry approves new projects under Ujjawala Scheme and continues existing projects
8. SWADHARAGreh (A Scheme for Women in Difficult Circumstances)
9. Revision under IGSY in Accordance with National Food Security Act, 2013 in Xth Plan
10. Support to Training and Employment Programme for Women (STEP)
11. NARI SHAKTI PURASKAR
12. Awardees of Stree Shakti Puruskar, 2014 & Awardees of Nari Shakti Puruskar
13. Awardees of Rajya Mahila Samman & Zila Mahila Samman
14. Archived Maternity Benefit programme

Mahatma Gandhi said that

- *Woman is more fitted than man to make exploration and take bolder action in nonviolence.*
- *There is no occasion for women to consider themselves subordinate or inferior to men.*
- *Woman is the companion of man, gifted with equal mental capacity.*
- *If by strength is meant moral power, then woman is immeasurably man's superior.*
- *If nonviolence is the law of our being, the future is with women.*
- *Woman, I hold, is the personification of self-sacrifice, but unfortunately today she does not realize what tremendous advantage she has over man.*

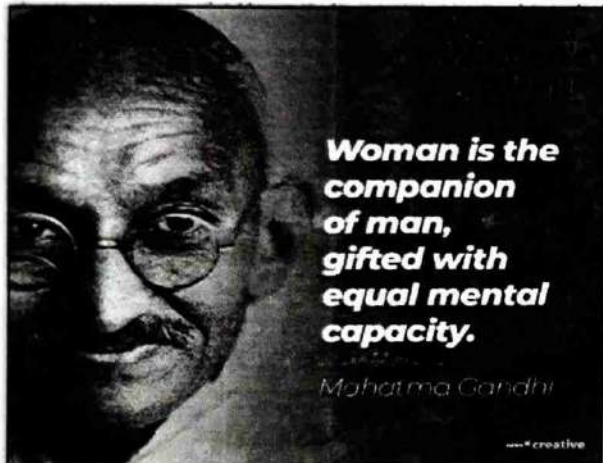


FINDINGS OF THE STUDY:

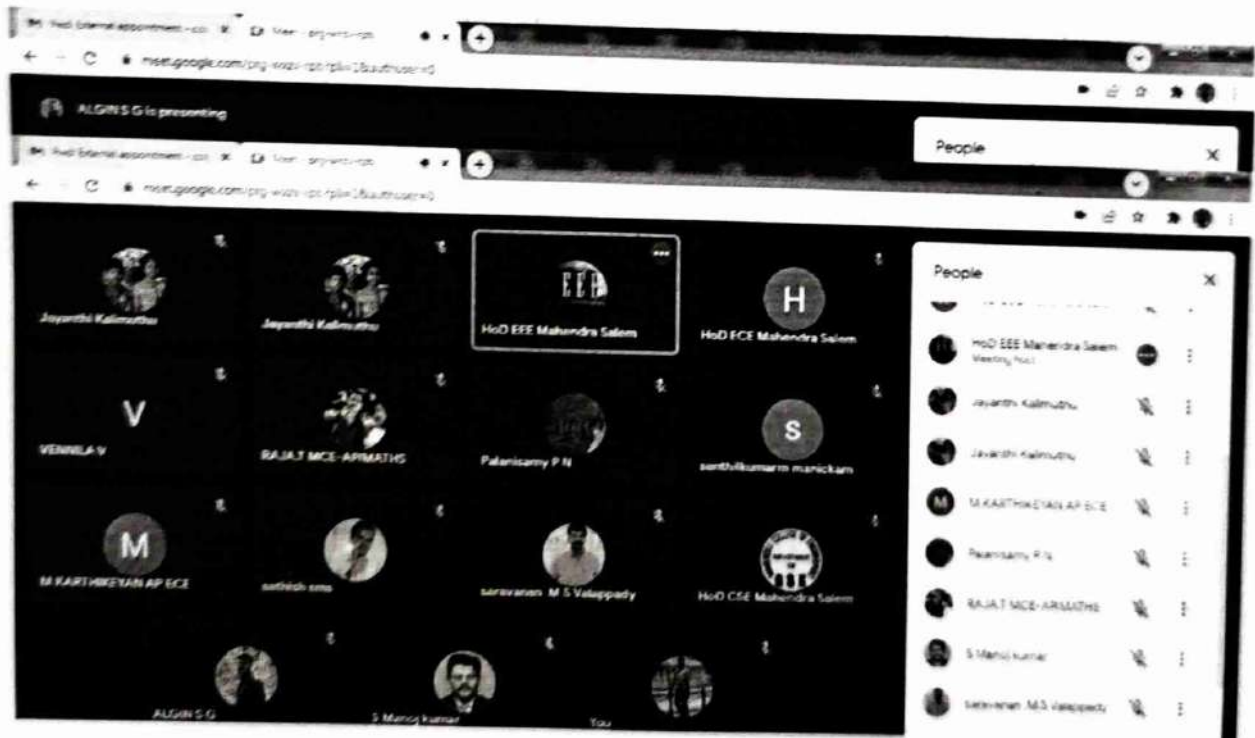
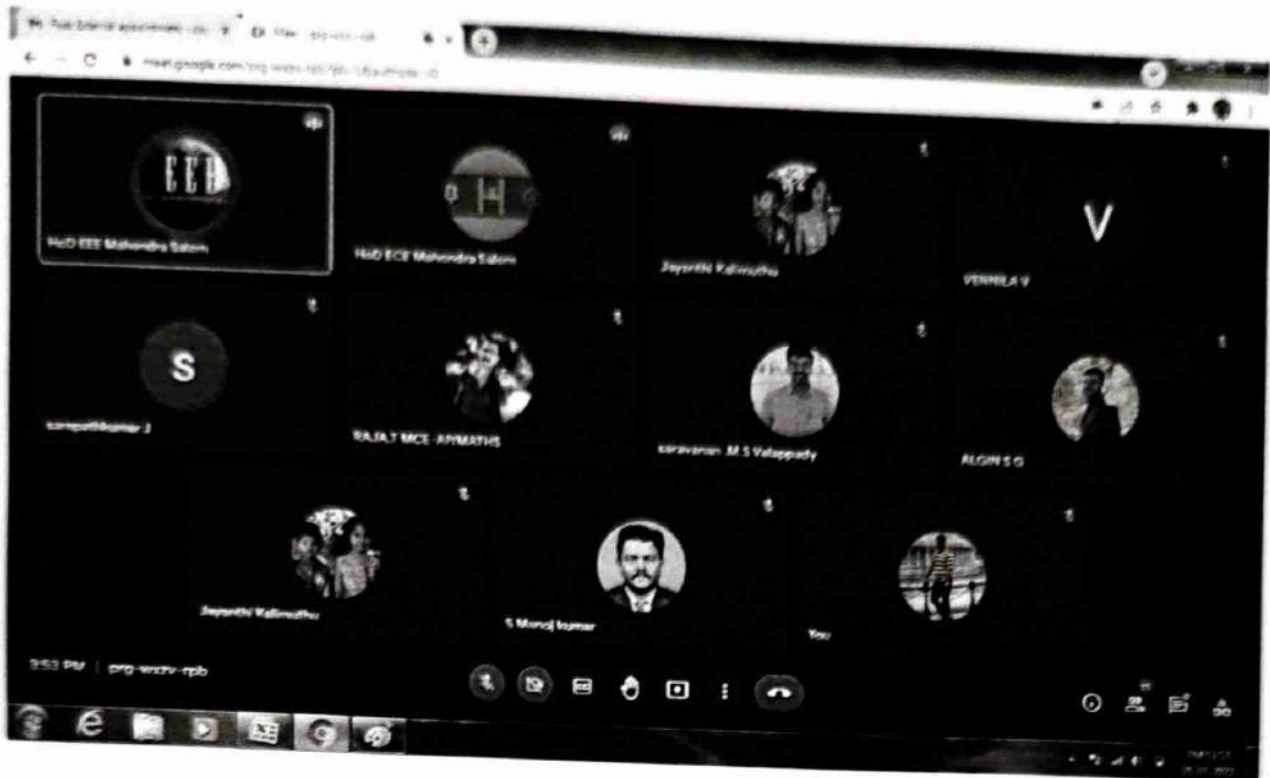
- ❖ 1. There are several Government programmes and NGOs in the Country, there is still a wide gap that exists between those under protection and those not.
- ❖ 2. Poverty and illiteracy add to these complications. The Empowerment of Women begins with a guarantee of their health and safety.
- ❖ 3. Empowerment of Women could only be achieved if their economic and social status is improved. This could be possible only by adopting definite social and economic policies with a view of total development of women and to make them realize that they have the potential to be strong human beings.
- ❖ 4. In order to create a sustainable world, we must begin to Empower Women.

CONCLUSION:

- ❖ "When women move forward the family moves, the village moves and the nation moves". It is essential as their thought and their value systems lead the development of a good family, good society and ultimately a good nation. The best way of empowerment is perhaps through inducting women in the mainstream of development. Women empowerment will be real and effective only when they are endowed income and property so that they may stand on their feet and build up their identity in the society.
- ❖ Government initiatives alone would not be sufficient to achieve this goal. Society must take initiative to create a climate in which there is no gender discrimination and women have full opportunities of self decision making and participating in social, political and economic life of the country with a sense of equality.



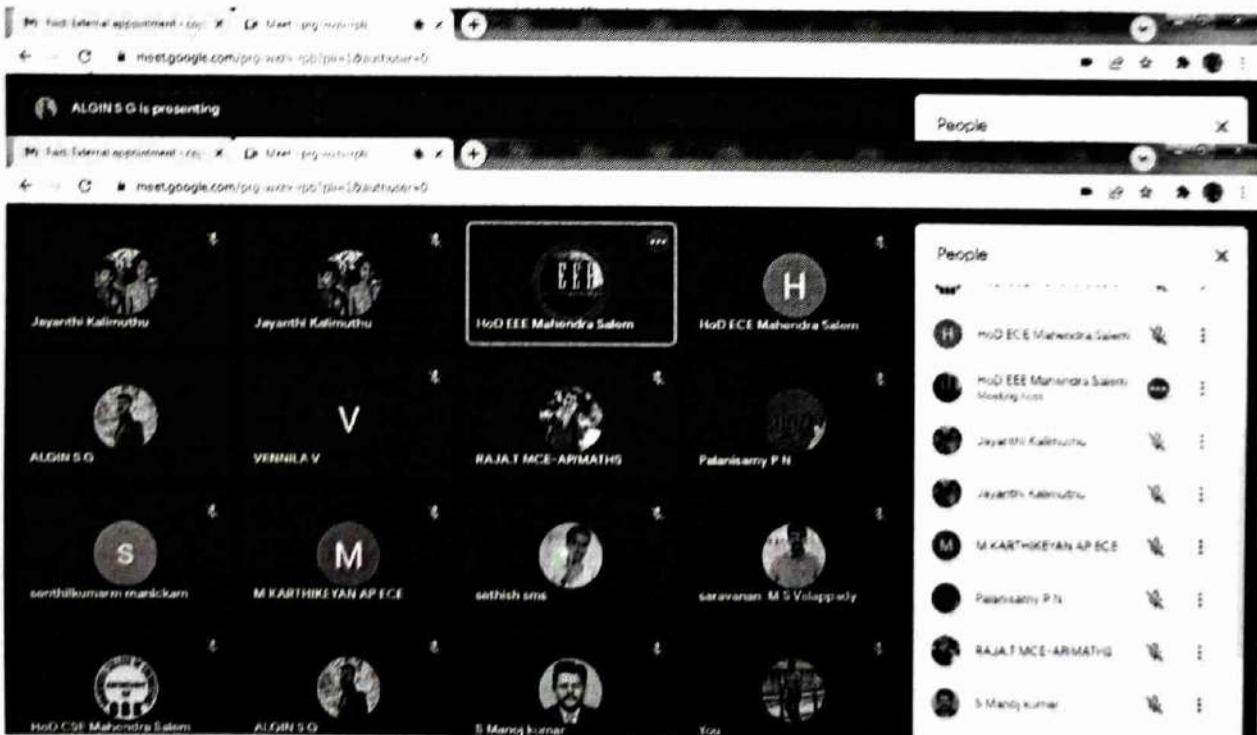
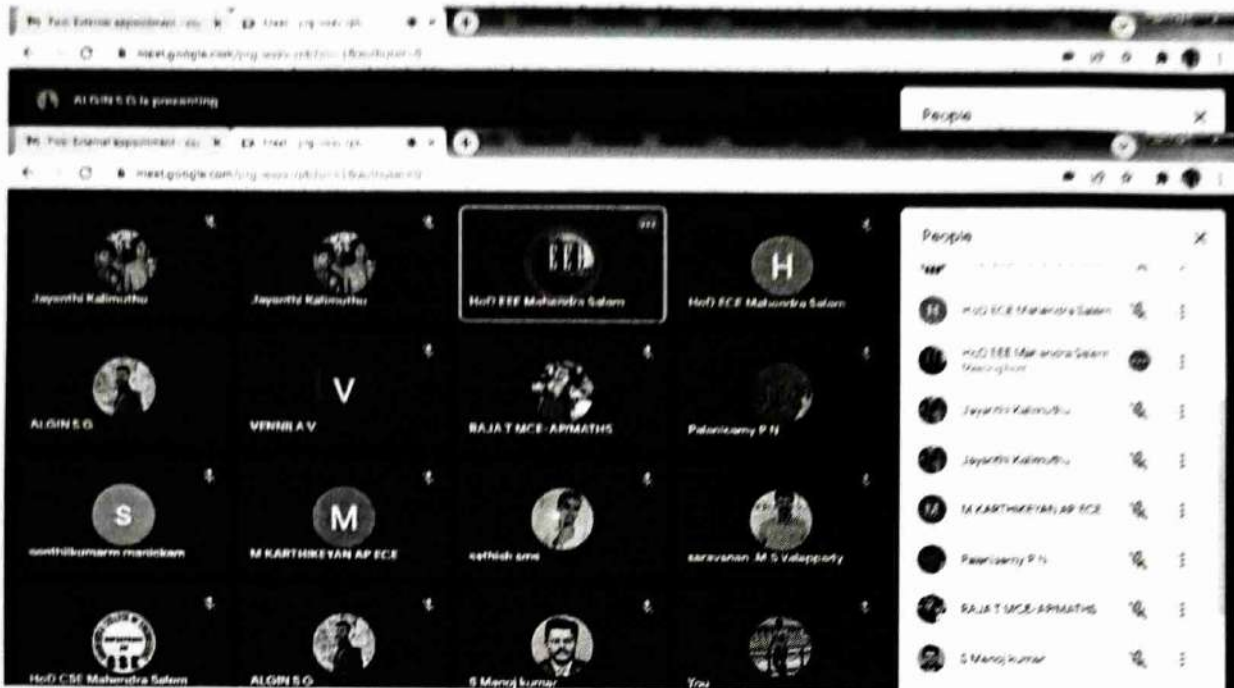

PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM-636 106




PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM-636 106

SCREEN SHOTS OF THE PRESENTATION

ISSUES AND CHALLENGES OF WOMEN EMPOWERMENT IN INDIA



N.M.
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM-636 106

Google Meet Attendance

Sakthivel.M Mce-Ap/Mech	✓	"	"	"11:31"	"11:02"	"32"	"1"	
Hod Ece Mahendra Salem	✓	"	"	"10:43"	"10:43"	"1"	"1"	
Thangaraju.MMce-Ap/Maths	✓	"	"	"10:35"	"11:02"	"77"	"1"	
Nandhakumar.KMce-Ap/Maths	✓	"	"	"10:36"	"11:01"	"44"	"1"	
Priya.T Mce-Ap/Bme	✓	"	"	"10:35"	"11:03"	"80"	"1"	
Baskar.R Mce-Ap/Bme	✓	"	"	"10:35"	"11:02"	"38"	"2"	"11:29 (34 10:35 (4min) [10:38]
John Bosco.P Mce-Ap/Eee	"	"	"					
Ienolin Rex.M Mce-Ap/Cse	✓	"	"	"10:36"	"11:02"	"35"	"1"	
Suresh.R Mce-Ap/Maths	"	"	"					
Vijayalakshmi.A Mce-Ap/Cse	✓	"	"	"10:40"	"11:02"	"53"	"1"	
Meera.S Mce-Ap/Ece	✓	"	"	"10:35"	"10:40"	"6"	"1"	
Madhusudan.S Mce-Ap/Eee	✓	"	"	"11:08"	"11:02"	"35"	"1"	
Priyadevi.KMce-Ap/Ece	✓	"	"	"10:35"	"11:01"	"76"	"1"	
Hod Cse Mahendra Salem	✓	"	"	"10:41"	"11:01"	"39"	"1"	
Monisha.S Mce-Ap/Ece	✓	"	"	"10:38"	"11:01"	"38"	"3"	"11:34 (9r 10:38 (16n 11:49 (13min) [11:01]
Kokila.SMce-Ap/Maths	"	"	"					
Sankar.A Mce-Ap/Mech	✓	"	"	"11:31"	"11:02"	"32"	"1"	
I.Ram Kumar Mce-Ap/Eee	✓	"	"	"11:24"	"11:01"	"34"	"1"	
Hod Ece Mahendra Salem	✓	"	"	"10:39"	"11:05"	"85"	"3"	"11:37 (1r 11:31 (35n 10:39 (37min) [11:05]
Karthigaswathini.S.Mce-Ap/Ece	✓	"	"	"10:39"	"11:02"	"42"	"1"	

Help/more info:

"<https://tinyurl.com/y5peu3nk>"

Ravishankar.T Mce-Ap/Civil	✓	"	"	"10:38"	"11:02"	"45"	"1"	
Muthukumar.S Mce-Ap/Civil	✓	"	"	"10:44"	"11:03"	"38"	"1"	
Harikaran.M Mce-Ap/Civil	✓	"	"	"10:35"	"11:01"	"85"	"1"	
Manisekar.A Mce-Ap/Civil	✓	"	"	"10:40"	"11:02"	"41"	"2"	"10:40 (3r 11:01 (2min) [11:02]
Meenakshi.S Mce-Ap/Ece	"	"	"					
Inba Arasi.M Mce-Ap/Eee	✓	"	"	"10:36"	"11:01"	"79"	"1"	
Latha.p.s Mce-Ap/Cse	"	"	"					
Rameshkumar.S Mce-Ap/Mech	✓	"	"	"10:41"	"11:02"	"34"	"1"	
Obuli Ranganathan.O. Mce-Ap/Eee	✓	"	"	"10:35"	"11:02"	"50"	"1"	
Balaji.D Mce-Ap/Ece	"	"	"					
Panneerselvam.p Mce-Ap/Mech	✓	"	"	"10:38"	"11:01"	"43"	"3"	"10:38 (3r 11:01 (1m 11:59 (3min)
Rajaram.k Mce-Ap/Mech	"	"	"					
Rameshkumar.s Mce-Ap/Mech	✓	"	"	"10:35"	"11:38"	"18"	"2"	"11:31 (8r 10:35 (10min) [10:44]
C.Kannan.Mce-Ap/Mech	✓	"	"	"10:38"	"11:01"	"38"	"2"	"11:59 (3r 10:38 (35min) [11:58]
Prabu.S Mce-Ap/Mech	✓	"	"	"10:35"	"11:02"	"36"	"1"	
Govindaraj.M Mce-Ap/Mech	✓	"	"	"10:35"	"11:02"	"37"	"1"	
Ganesh Raja.S.Mce-Ap/Mech	✓	"	"	"10:35"	"11:01"	"84"	"1"	
Palanisamy.P.N Mce-Ap/Ece	"	"	"					
Hod Civil Mahendra Salem	✓	"	"	"10:36"	"11:02"	"49"	"2"	"11:17 (4r 10:36 (3min) [10:38]
Prabavathi Mk Mce-Ap/Bme	"	"	"					
Sakthivel.M Mce-Ap/Mech	✓	"	"	"11:31"	"11:02"	"32"	"1"	


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Mittanampalli, SALEM-636 106

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Issues and challenges of women Empowerment in India
 Today's Date: 13.5.22 Name of Presenter/s: S. Meera
 Name of Participant: Riya

For the following areas, please indicate your rating:

A. Presentation	1 Fair	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style				✓
Instructor covered material clearly				✓
Instructor responded well to questions			✓	
Instructor facilitated interactions among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	<p style="font-size: 1.2em;">Good</p>
D. Any other comments or suggestions?	

E. Overall, how would you rate this knowledge forum?

☐ POOR
 ☐ FAIR
 ☒ GOOD
 ☐ EXCELLENT


Signature of Participant


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM-636 106

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Issues and challenges of women Empowerment in india
 Today's Date: 13.05.2022 Name of Presenter/s: Mrs. S. meera
 Name of Participant: T. Sampath Kumar

For the following areas, please indicate your rating:

A. Presentation	1 Fair	2 Medium	3 Good	4 Excellent
Instructor's knowledge				✓
Instructor's presentation style				✓
Instructor covered material clearly			✓	
Instructor responded well to questions			✓	
Instructor facilitated interactions among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	✓ - Good.
D. Any other comments or suggestions?	-

E. Overall, how would you rate this knowledge forum?

[] POOR [] FAIR [✓] GOOD [] EXCELLENT


 Signature of Participant


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM-636 106



MAHENDRA **COLLEGE OF ENGINEERING**

Affiliated to Anna University and Approved by AICTE

The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

Date : 26.08.2022

Session Time : 09.30 am to 10.30 am

BIOLOGICAL EFFECTS OF CELL TOWER RADIATION ON HUMAN BODY

Presented by

Mr.D.BALAJI

Assistant Professor-Dept of ECE

Will be the resource persons

in the presence of

Dr. N.MOHANA SUNDHARA RAJU

Principal,

Mahendra College of Engineering

<https://meet.google.com/qnw-susg-jzd>


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM-636 106



MAHENDRA COLLEGE OF ENGINEERING

Biological Effects of Cell Tower Radiation on Human Body

Mr.D.BALAJI
Assistant Professor
Department of ECE
Mahendra College of Engineering

01/06/2018

1

OBJECTIVE



Radiation measurements near the cell towers



EMF exposure Safety norms



Review Biological effects
(far below current standards)



Radiation Shield (reduce Radiation
levels)

01/06/2018

2



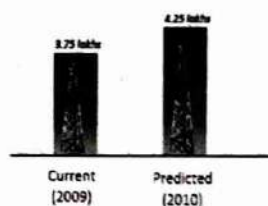
Electromagnetic Radiations

Radiation emitted from Cell Phones, Cell phone towers, Wi-Fi, TV and FM towers, microwave ovens, etc are called Electromagnetic radiations and are known to cause significant biological effects on the human body and health of animals.

01/06/2018

3

Cell Tower Statistics in India



01/06/2018

4

Antennas on Cell tower transmit in the frequency range of:

- 869 - 890 MHz (CDMA)
- 935 - 960 MHz (GSM900)
- 1805 - 1880 MHz (GSM1800)
- 2110 - 2170 MHz (3G)*



01/06/2018

5

Microwave radiation effects are classified as:

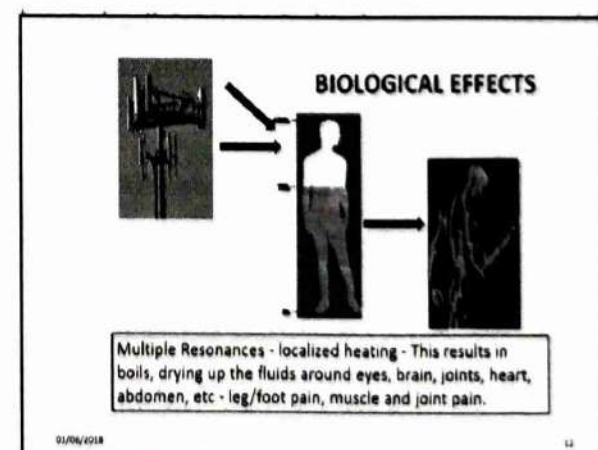
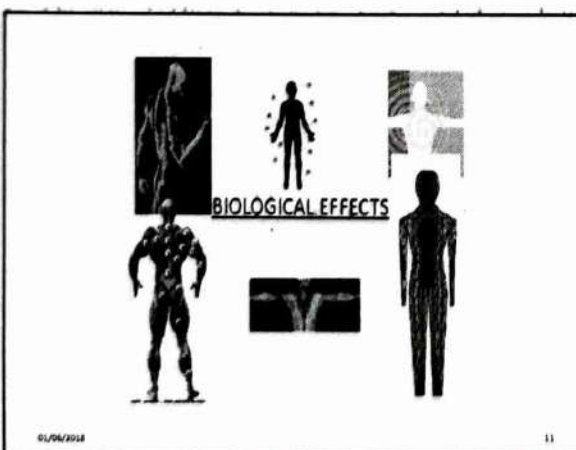
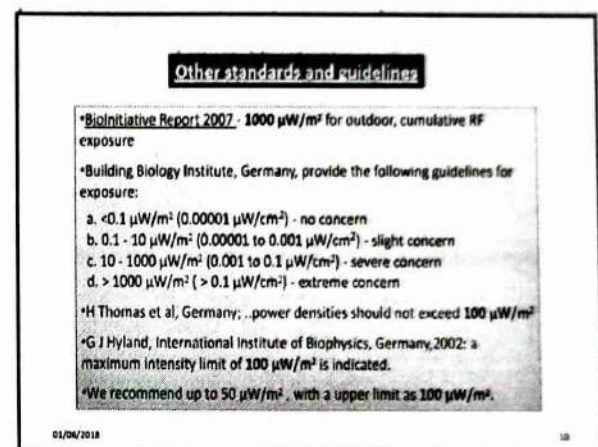
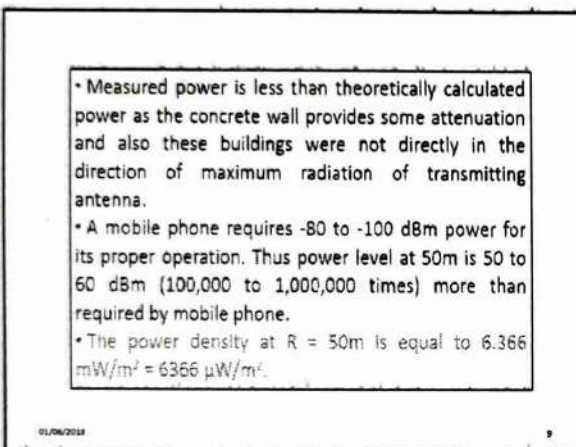
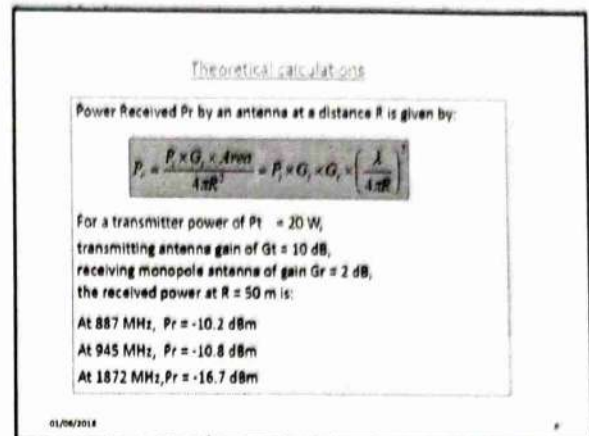
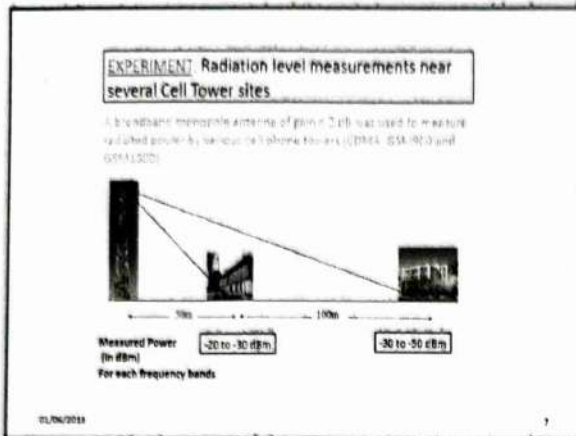
- Thermal
- Non-thermal

The current exposure safety standards are mainly based on the thermal effects, which are inadequate.

01/06/2018

6

Handwritten signature
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampelli. SALEM-636 106



PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnaampalli, SALEM-636 106

1. Most common complaints:

Cognitive functions: Concentration, memory, behavior, etc.
Epidemiological studies: Sleep disruption, Headache, Depression, discomfort, irritability, nausea, dizziness, appetite loss, muscle spasms, numbness, tingling, altered reflexes.
Subjects reported: buzzing in the head, palpitations of the heart, light-headedness, heat, visual disorders, cardiovascular problems, respiratory problems, nervousness, agitation. More severe reactions include seizures, paralysis, psychosis and stroke.



All these are related to changes in the electrical activity of the brain

01/06/2018

17

Blood Brain Barrier: -selectively lets nutrients pass through from the blood to the brain, but keeps toxic substances out.

Leif Salford et al 1998



Albumin - protein component of blood, does not normally cross BBB



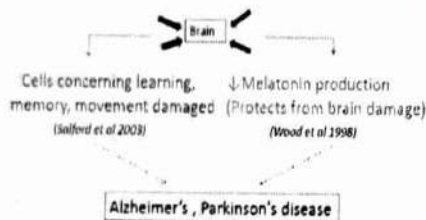
- Albumin in brain tissue - Damaged blood vessels & lost brain protection
- Neuron - Grouped & shrunken with loss of internal cell structures.
- Neuronal damage - not immediate consequences - but may result in reduced brain reserve capacity - unravelled by other later neuronal diseases
- NOTE: BBB is the same in a rat and a human being.

01/06/2018

18

2. Alzheimer's, Motor neuron, Parkinson's disease

- 4 times incidence of Alzheimer's disease (Hakansson et al 2003)
- 3 times amyotrophic lateral sclerosis (ALS) (Savitz et al 1998)

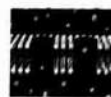


01/06/2018

19

3. DNA Damage

1. Ca²⁺ release:



- ELF release Ca²⁺ bound to membranes
- Loss of Ca²⁺ causes leaks in the membranes of lysosomes releasing DNAase that causes DNA damage.

2. Interfere with natural processes:

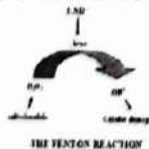
- DNA replication & repair - altering molecular conformation
- This could result in chromosome aberrations, micronuclei formation & increased DNA fragmentation

01/06/2018

20

3) Free radical formation inside cells:

- ↑ free radical activity in cells from EMF via Fenton rxn.
- Free radicals kill cells by damaging macromolecules, such as DNA, protein and membrane.



When Damage to DNA > Rate of DNA repaired, there is the possibility of retaining mutations and initiating cancer

01/06/2018

21

4. Effect on HSP



Over-expression of (HSPs) inhibit natural programmed cell death (apoptosis)

cells that should have 'committed suicide' continue to live.



Consistent with the 2-3-fold ↑ in incidence of a rare forms of cancer

5. Irreversible infertility

Continuous exposure → Reduction in Sperm Viability and Mobility by around 25 % in men

01/06/2018

22

6. Risk to Children

Children are more vulnerable as:

- Skulls are smaller & thinner - ↑ % radiation absorption
- ↑ rate of Cell division - more susceptible to genetic damage
- Myelin sheath not developed - Electrical brain-wave activity



RF penetration is the skull of an adult (25%), 10 year (50%) and a 5 year old (75%)



Fetus & Mother - RF can pass placental barrier & continuously react with the developing embryo and increasing cells

01/06/2018

19

7. Risk to Patients Carrying Pace Makers, implantable cardiovascular defibrillators and impulse Generators



Stop Pace Maker from delivering pulses in a regular way by generating external pulses putting the patient to death.

8. Occupational hazard

Workers in the highest 10% category for EMF exposure are:

- Twice as likely to die of prostate cancer
- Elevations in brain cancer, non-Hodgkin's lymphoma etc

01/06/2018

20

Effect on Environment

• **Effect on farm animals** - According to Dr. W. Löscher of the Institute of Pharmacology, Toxicology and Pharmacy, Germany, dairy cows that were kept in close proximity to a TV and cell phone tower for two years had a reduction in milk production along with increased health problems and behavioral abnormalities.

• **Vanishing Bees** - A study in England showed that bees refused to return to their beehives where there was a DECT cordless phone station. It is discussed that the extensive use of mobile phones may be one reason why bee colonies are vanishing at a huge scale in Europe and the US.

Similarly, EMR from cell phone towers - diseases in plants & animals and is the reason for the vanishing butterflies, some insects and birds like sparrows.



01/06/2018

21



➤ Until now, man has been absorbing the harmful, unseen EM radiations without even being aware of it, but now, with the rapid advent in technology, this RF Radiation pollution has started having ill effects on human health, health of animals, medical investigatory equipments and even on food products being consumed by everybody.

➤ Hence, there is an urgent need to take precautionary steps.

➤ Example, when a glass is filled with water, it holds up to a certain level, but once it reaches the rim, it starts spilling. Similarly, our bodies can also absorb radiation up to a certain limit.

01/06/2018

22

RADIATION SHIELD

❑ A "Radiation Shield" consisting of multiple orthogonally polarized broadband monopole antennas (800 to 4000 MHz) has been developed.

❑ The antennas are terminated in matched load to absorb the harmful radiation to produce a safe radiation free environment.

❑ It also has a LED which lights up (without battery) when a strong radiation source is brought close to it.

❑ Absorbs 10% to 50% of radiation depending upon its placement and direction of source of radiation. Multiple units can absorb radiation up to 80% to 90%.

01/06/2018

23

CONCLUSIONS

❑ In addition to continuous radiation from cell towers, there is radiation from cell phones, computers, laptops, TV & FM towers, microwave ovens, etc - additive in nature.

❑ Stricter radiation norms must be enforced across globe.

❑ This does not mean that we have to stop living near these towers. We all know that automobiles create air pollution... Hence came up with unleaded petrol, CNG driven vehicle, hybrid vehicles, etc. Similarly, the solution to avoid excess radiation is to use radiation shields.

❑ Mobile companies should not be in the denial mode and accept that radiation causes serious health problems. Only then people all over the world will carry out research to come out with solutions.

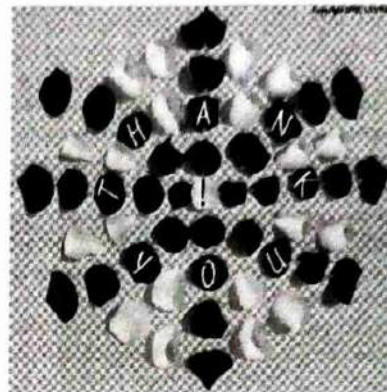
01/06/2018

24

32. Report "The effects of Radiofrequency Radiation from Mobile Phone Systems" IIR, 2002, pp. 1-10.
33. Hatanaka, T. et al., "The Effects of Radiofrequency Radiation from Mobile Phone Systems on the Human Body" (2002), IIR, 2002, pp. 1-10.
34. G. L. S. et al., "The Effects of Radiofrequency Radiation from Mobile Phone Systems on the Human Body" (2002), IIR, 2002, pp. 1-10.
35. G. L. S. et al., "The Effects of Radiofrequency Radiation from Mobile Phone Systems on the Human Body" (2002), IIR, 2002, pp. 1-10.
36. G. L. S. et al., "The Effects of Radiofrequency Radiation from Mobile Phone Systems on the Human Body" (2002), IIR, 2002, pp. 1-10.
37. G. L. S. et al., "The Effects of Radiofrequency Radiation from Mobile Phone Systems on the Human Body" (2002), IIR, 2002, pp. 1-10.
38. G. L. S. et al., "The Effects of Radiofrequency Radiation from Mobile Phone Systems on the Human Body" (2002), IIR, 2002, pp. 1-10.
39. G. L. S. et al., "The Effects of Radiofrequency Radiation from Mobile Phone Systems on the Human Body" (2002), IIR, 2002, pp. 1-10.
40. G. L. S. et al., "The Effects of Radiofrequency Radiation from Mobile Phone Systems on the Human Body" (2002), IIR, 2002, pp. 1-10.

01/04/2018

25



01/04/2018

26

N.V.
PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Maheswari, SAILRM-636 106

SCREEN SHOTS OF THE PRESENTATION

BIOLOGICAL EFFECTS OF CELL TOWER RADIATION ON HUMAN BODY

Free Courses on Alison Courses

- Alison offers over 1000 free online courses across nine distinct categories. The types of courses across the categories include: Certificate Courses, Diploma Courses and Learning Paths.

Certificate Courses

- Average hour duration: 2-3 hrs

Alison's Certificate courses will help you focus your learning on distinct topics, to provide you with specific expertise in your field or industry. By concentrating your energy on singular concepts, the niche skills you gain could set you apart from the rest.

- Certificate courses include an abundance of subjects, such as: languages, media studies, journalism and public relations, health and fitness, business studies, computer programming and networking.

10:55 AM | srm-yspv-ugu

Participants: HoD ECE Mahendra Salom, Dr. Siddhartha Sankar Biswas, 76 others, You.

meet.google.com/srm-yspv-ugu?authuser=1

Balaji D is presenting

NPTEL Online Certification

- The objective of enabling students obtain certificates for courses is to make students employable in the industry or pursue a suitable higher education programme.
- Through an online portal, 4-, 8-, or 12-week online courses, typically on topics relevant to students in all years of higher education along with basic core courses in sciences and humanities with exposure to relevant tools and technologies, are being offered.
- The enrolment to and learning from these courses involves no cost.

All the statistics pertaining to completed courses are available at <https://nptel.ac.in/noc/>.


- All courses are completely free to enrol and learn from. The certification exam is optional and comes at a fee of Rs 1000/course exam.

Dr Raja J Associate Professor has left the meeting


Participants: HoD ECE Mahendra Salom, 20.04 A.Arunraja ECE, 82 others, You.

Free Courses on FutureLearn


- Based out of the United Kingdom, FutureLearn has reportedly changed the life of approx. 7,500,000+ students and working professionals worldwide by updating their knowledge and skills.
- These include: Business & management, Creative Arts & Media, Nature & Environment, Law, History, Tech & Coding, Teaching, Health & Psychology and Literature among others.
- In addition to free courses, students also get an opportunity to specialize in individual subjects and/or pursue post graduate degrees if they so desire.
- Some of the popular free course options offered here include:
 - HR Fundamentals
 - How To Succeed at Interviews
 - Finance Fundamentals: Financial Services after the Banking Crisis.
 - Introduction to Psychology
 - Learning Online: Managing your Identity
 - People Management Skills
 - Teaching English Online
- For more details on the free courses available log on to futurelearn.com.
available online in a number of digital formats.




Mahendra C. Mahendran, Salem



Dr. Siddhartha Sankar Ghose



75 others



Yong

10:55 AM | srm-yspv-ugu

Microphone, Chat, Screen Share, Hand, Zoom, More, Phone

NM

PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM-636 106

Google Meet Attendance

Rameshkumar.s Mce-Ap/Mech	"✓"	"	"	"10:35"	"11:38"	"18"	"2"	"11:31 (8r 10:35 (10min) [10:44]
C.Kannan.Mce-Ap/Mech	"✓"	"	"	"10:38"	"11:01"	"38"	"2"	"11:59 (3r 10:38 (35min) [11:58]
Prabu.S Mce-Ap/Mech	"✓"	"	"	"10:35"	"11:02"	"36"	"1"	
Govindaraj.M Mce-Ap/Mech	"✓"	"	"	"10:35"	"11:02"	"37"	"1"	
Balaji.D Mce-Ap/Ece	"	"	"					
Panneerselvam.p Mce-Ap/Mech	"✓"	"	"	"10:38"	"11:01"	"43"	"3"	"10:38 (3r 11:01 (1m) 11:59 (3min) [11:01]
Govindaraj.M Mce-Ap/Mech	"✓"	"	"	"10:35"	"11:02"	"37"	"1"	
Ganesh Raja.S.Mce-Ap/Mech	"✓"	"	"	"10:35"	"11:01"	"84"	"1"	
Palanisamy.P.N Mce-Ap/Ece	"	"	"					
Hod Civil Mahendra Salem	"✓"	"	"	"10:36"	"11:02"	"49"	"2"	"11:17 (4r 10:36 (3min) [10:38]
Hod Ece Mahendra Salem	"✓"	"	"	"10:43"	"10:43"	"1"	"1"	
Thangaraju.MMce-Ap/Maths	"✓"	"	"	"10:35"	"11:02"	"77"	"1"	
Nandhakumar.KMce-Ap/Maths	"✓"	"	"	"10:36"	"11:01"	"44"	"1"	
Priya.T Mce-Ap/Bme	"✓"	"	"	"10:35"	"11:03"	"80"	"1"	
Baskar.R Mce-Ap/Bme	"✓"	"	"	"10:35"	"11:02"	"38"	"2"	"11:29 (3r 10:35 (4min) [10:38]
John Bosco.P Mce-Ap/Eee	"	"	"					
Jenolin Rex.M Mce-Ap/Cse	"✓"	"	"	"10:36"	"11:02"	"35"	"1"	
Suresh.R Mce-Ap/Maths	"	"	"					
Vijayalakshmi.A Mce-Ap/Cse	"✓"	"	"	"10:40"	"11:02"	"53"	"1"	
Meera.S Mce-Ap/Ece	"✓"	"	"	"10:35"	"10:40"	"6"	"1"	
Madhusudan.S Mce-Ap/Eee	"✓"	"	"	"11:08"	"11:02"	"35"	"1"	
Priyadevi.KMce-Ap/Ece	"✓"	"	"	"10:35"	"11:01"	"76"	"1"	
Hod Cse Mahendra Salem	"✓"	"	"	"10:41"	"11:01"	"39"	"1"	
Priya.T Mce-Ap/Bme	"✓"	"	"	"10:35"	"11:03"	"80"	"1"	
Baskar.R Mce-Ap/Bme	"✓"	"	"	"10:35"	"11:02"	"38"	"2"	"11:29 (3r 10:35 (4min) [10:38]
John Bosco.P Mce-Ap/Eee	"	"	"					
Jenolin Rex.M Mce-Ap/Cse	"✓"	"	"	"10:36"	"11:02"	"35"	"1"	
Suresh.R Mce-Ap/Maths	"	"	"					
Vijayalakshmi.A Mce-Ap/Cse	"✓"	"	"	"10:40"	"11:02"	"53"	"1"	
Meera.S Mce-Ap/Ece	"✓"	"	"	"10:35"	"10:40"	"6"	"1"	


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM-636 106

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Biological Effects of Cell Tower Radiation
 Today's Date: 26.8.2022 Name of Presenter/s: D. Balaji
 Name of Participant: G. Shyamala

For the following areas, please indicate your rating:

A. Presentation	1 Fair	2 Medium	3 Good	4 Excellent
Instructor's knowledge			✓	
Instructor's presentation style			✓	
Instructor covered material clearly			✓	
Instructor responded well to questions			✓	
Instructor facilitated interactions among participants well				

C. How could this Knowledge Sharing Forum be improved?	Good
D. Any other comments or suggestions?	NIL

E. Overall, how would you rate this knowledge forum?

☐ POOR
 ☐ FAIR
 ☐ GOOD
 ☒ EXCELLENT


 Signature of Participant


PRINCIPAL
 Mabendra College of Engineering
 Mabendra Salem Campus,
 Minampatti, SALEM-636 106

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Biological Effect of Cell Tower Radiation on human Body
 Today's Date: 26.6.22 Name of Presenter/s: Mrs. D. Balaji
 Name of Participant: T. Raja

For the following areas, please indicate your rating:

A. Presentation	1 Fair	2 Medium	3 Good	4 Excellent
Instructor's knowledge				✓
Instructor's presentation style			✓	
Instructor covered material clearly			✓	
Instructor responded well to questions			✓	
Instructor facilitated interactions among participants well				✓

C. How could this Knowledge Sharing Forum be improved?	Good
D. Any other comments or suggestions?	NIL

E. Overall, how would you rate this knowledge forum?

[] POOR [] FAIR [] GOOD

[✓] EXCELLENT


 Signature of Participant


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM-636 106



MAHENDRA **COLLEGE OF ENGINEERING**

Affiliated to Anna University and Approved by AICTE



The Management, Principle, Faculty
Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

PRESENTED

DATE: 02.09.2022

SESSION: 10:00 am to 11:30 am

Mrs. Sindhu

Assistant professor- IT

TOPIC: SAVE WATER FOR UPCOMING GENERATION

Will be the resource persons

Dr. N. MOHANA SUNDARARAJU

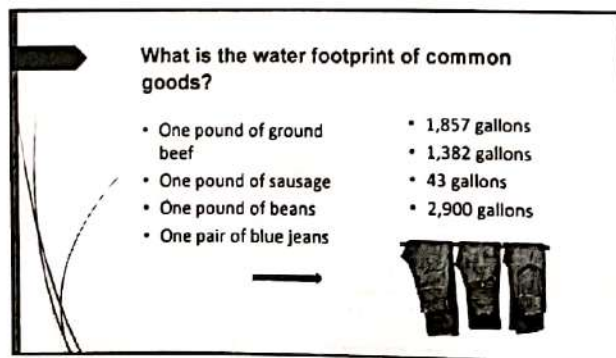
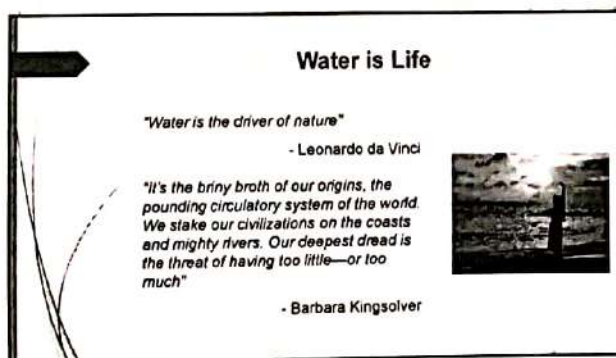
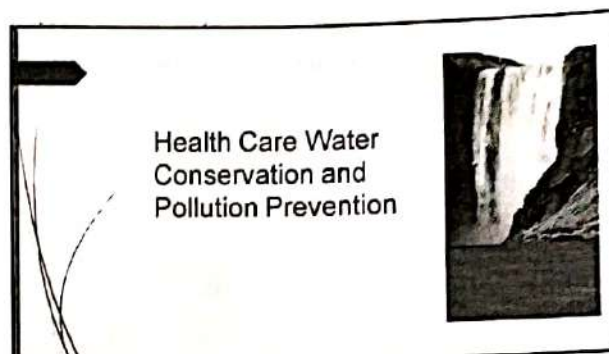
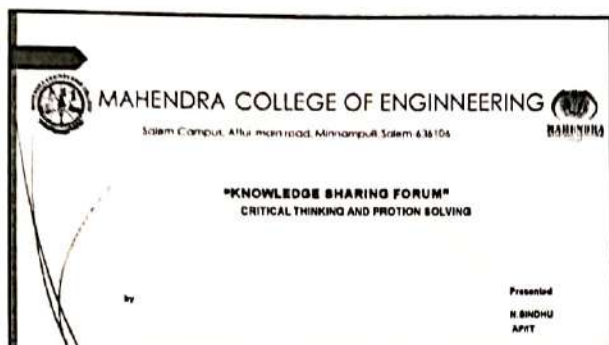
Principle

Mahendra college of Engineering

PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

et.google.com/hqh-oyes-gzy



PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU



Water Accounting for the Partner for Change Award?

- Annual Water Consumption
- Gross Square Area
- Cleanable Square Area
- Total Landscape Area = Irrigated Landscape + Non irrigated landscape
- Water saving devices and purchase price
- Project descriptions



What are the 2015 water benchmarks for Practice Greenhealth Award Winning Hospitals?

Metric	Median	Circle of Excellence Water
Gallons per Sq. Ft.	42.9 gallons	29.3 gallons
Gallons per Cleanable Sq. Ft.	47.9 gallons	37.26 gallons
% Change in Water Use per Sq. Ft.	9.0%	32.5%
Gallons of Water per OR	2.2 million gallons	1.08 million gallons

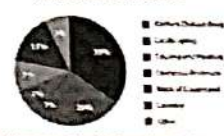


2016 Water Goals

- Level 1: Determine Water Usage Baseline
- Level 2: Percent change in gallons of water used per square foot of gross floor area between baseline and current year or Gallons of water used per square foot of gross floor area in current year
- Level 3: Percent change in gallons of water used per square foot of gross floor area between baseline and current year or Gallons of water used per square foot of gross floor area in current year

Evaluate Water Consumption

End Uses of Water in Hospitals

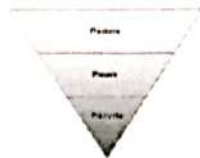


Compiled by the American Hospital Association, 2009. For more information, visit www.aha.org.
Source: American Hospital Association, 2009. For more information, visit www.aha.org.

ANU
PRINCIPAL

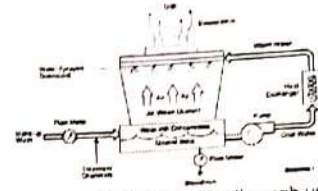
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

Identify Conservation Opportunities at NorthShore University Health System



- Steam Trap Audit
- Increase Cooling tower cycles
- New SPD equipment

Increase Cooling Tower Cycles



- Increase cooling tower cycles through use of acid treatment (control/prevent mineral scale).
- Results in decreased blowdown and associated make-up water needed.

Increase Cooling Tower Cycles- Impact



Location	Cooling Tower Cycles	Current Annual Water Usage	Cooling Tower Pumps	Est. Make-up Water	Water Savings (Gals)	Water \$ Savings
Glenbrook	4	4,006,800	8	3,464,400	572,400	\$4,047
Skokie	4	5,827,680	8	4,996,080	831,600	\$4,283
Highland Park	4	5,827,680	8	4,996,080	831,600	\$4,283
Total		15,662,160		13,426,560	2,235,600	\$12,403

New Sterile Processing Department Equipment




Instrument Washer/Disinfectors (STERIS Vision)

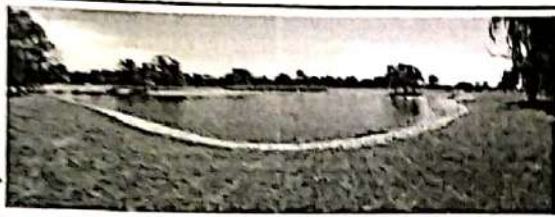
- Uses 41.1 gallons of cold, hot and pure water per cycle.
- Represents a 19% reduction compared to previous washers.



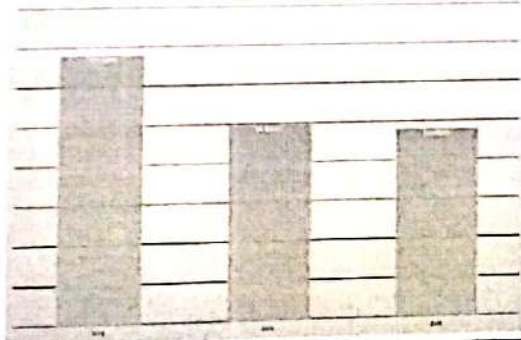
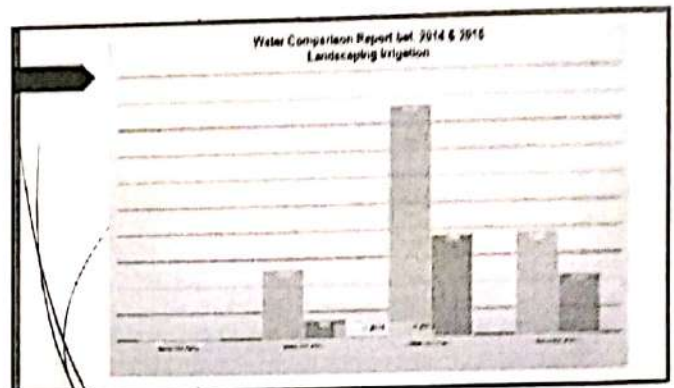
Cart Washer (STERIS Vision)

- Recycles the rinse water (70%) from each previous cycle to conserve water, using only 14 gallons of (new) hot water per cycle.
- Represents a 36% reduction in water usage when compared to previous cart washer.


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106
 TAMILNADU



Approximately 1.3 acre storm water retention pond
NorthShore University HealthSystem, Glenbrook campus



Successes

- 2014: 26.7% reduction in water use even with an increase of 8000 patients at our facility (4% increase)
- Landscape water use
 - SMART controllers for landscaping: Sense the actual temperature of the weather and adjust accordingly. Sensitive to fog, rain, humidity, temperature and adjust watering amounts and frequency
 - Drought resistant planting
 - Campus fountains all use recycled water or have been shut off
 - It is anticipated that 3.2 million gal of water will be saved over the course of a year due to these projects

PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

Additional Successes

- Cooling towers go through blow down after 8 cycles instead of 5 as in previous years. Therefore, draining of the cooling tower occurs less frequently leading to less wasted water.
- Green Team rounds looking for leaks and other opportunities
- Excess water kept in storage for emergencies was used to water the grounds

Challenges

- Capital investment for new landscaping controllers in additional locations
- Education/training staff to use new equipment
- Staff not reporting of leaks found in departments or public spaces in a timely manner
- Some other facilities are hearing complaints about not enough flow in the toilets/sinks
- Continued need to convert landscaping to drought resistant plants

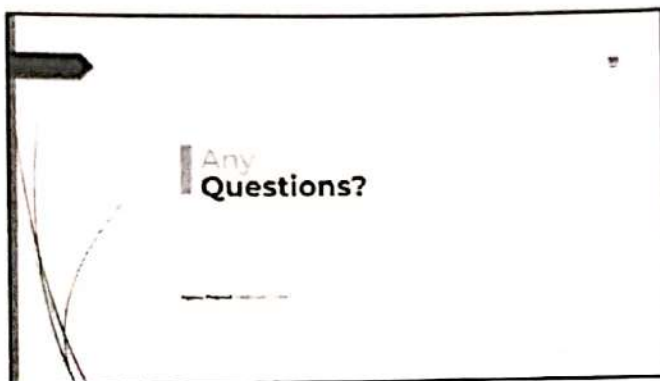
Future projects

- Complete the test of change for cooling towers to see if can further increase the cycle number before blow down
- Keep water conservation in mind as we expand to 2 new sites and further increase our services and membership
- Installation of additional SMART irrigation controllers to outlying areas on our campus

Resources:

- Practice Greenhealth Less Water Toolkit
- Conservation at Providence St. Peter Hospital
- Case Study: Water Conservation in Sterile Processing at Stanford University Medical Center
- Greenhealth Magazine: H2O in the OR- Saving Water at Lehigh Valley Hospital-Cedar Crest


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

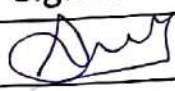


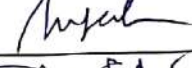
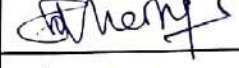
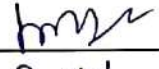


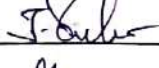

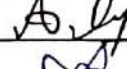
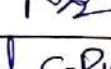
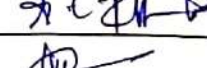
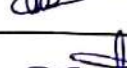
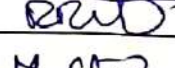
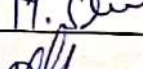
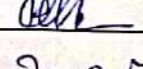
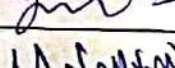
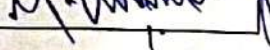



PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

MAHENDRA COLLEGE OF ENGINEERING
Knowledge Sharing Forum
Attendance Sheet

TITLE : Save water for upcoming generation

Date : 02-09-2022.

S.No	Name of the faculty	Department	Signature
1.	Vinodh	BME	
2.	Dr. T. RAJA	mathematic	
3.	P. Somya	IT	
4.	A. Anjali	CSE	
5.	M. Anandraj	CSE	
6.	N. Karthikeyan	IT	
7.	V. DEEPA	CSE	
8.	L. VINITHA SREE	CSE	
9.	T. Sampathkumar	ECE	
10.	P. SHANMUGA PRIYANKA	IT	
11.	A. INDHUJA	CSE	
12.	V. NISHADEVI	CSE	
13.	A. T. Priyesh Kumar	BME	
14.	S. Kirthika	IT	
15.	Dr. R. REKA	CSE	
16.	M. SATHYA	CSE	
17.	V. Shanabadi	CSE	
18.	T. Priya	BME	
19.	M. GOVINDARAJ	MECHANICAL	


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106
 TAMILNADU

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>Save units for upcoming generation</u>	Name of the Presenter/s : <u>N. Sindhu</u>
Today's Date: <u>02.09.2022</u>	Name of the Participant: <u>M. Gayathri</u>

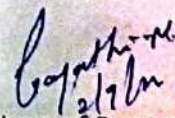

For the following data's please fill your rating:

	Fair	Medium	Excellent	Good
A. Presentation				
Instructor's Knowledge				✓
Instructor's Presentation Style		✓		
Instructor Covered Material Clearly				✓
Instructor Responded well to questions		✓		
Instructor facilitated interaction among participants well				✓

C. How could this Knowledge Sharing Forum be improved?	-
D. Any other comments or suggestions?	NIL

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [☒] GOOD [] EXCELLENT


 Signature of Participant
PRINCIPAL 
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106
 TAMILNADU



MAHENDRA **COLLEGE OF ENGINEERING**

Affiliated to Anna University and Approved by AICTE



The Management, Principle, Faculty
Cordially invite you to the

“KNOWLEDGE SHARING FORUM”

PRESENTED

DATE: 05.03.2022

SESSION: 10:00 am to 11:30 am

Mrs.S.SAKTHIVEL

Assistant professor- IT

TOPIC: VIRTUAL REALITY

Will be the resource persons

Dr.N.MOHANA SUNDARARAJU

Principle

Mahendra college of Engineering


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU



MAHENDRA COLLEGE OF ENGINEERING
Salem Campus, Attur main road, Minnampalli, Salem-636106



"KNOWLEDGE SHARING FORUM"
CRITICAL THINKING AND PROBLEM SOLVING

Presented by:
S.SAKTHIVEL
AP/IT

Virtual Reality

A joke
or
Reality?



Review of CMC

Key Terms in CMC

- Computer Mediated Communication (CMC)
- Asynchronous Communication
- Synchronous Communication ("real time" or "live")
- Electronic Mail Systems (which can be further classified as push or pull systems)
- Threaded Discussion Forums (can also be classified as push or pull system)

Types of Synchronous CMC Systems

a) Online Chat

- plain text chat (one to one)
- plain text chat (one or many to many)
- audio chat (one to one)
- audio chat (one to many)
- ability to moderate, lead discussions through technological methods
- shared whiteboards / multimedia capabilities

PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

b) Multi-User Dimension (MUD) and Multi-Object Oriented (MOO)

- living verbal environments - you can become anything you want (or not)
- time consuming to up-keep (like mingling at a big wedding)
- text only (telnet) and graphical/sound environments
- band-width and technology constraints

Virtual Environments and Virtual Reality

Attributes of Virtual Environments:

- Computer-generated representations of real or imaginary environments; Experienced as three-dimensional via a number of senses - visual, aural and/or tactile;
- Objects within these environments are independent of the user and can display real world behavior;
- The user or users have autonomous control - the freedom to navigate and interact with objects, using a number of different viewpoints;
- Interaction occurs in real-time; and the users experience feelings of presence and/or immersion.

What is VR?

- emulating the real world
- making an electronic world seem real

Interactive

- not static 3D images
- not movies
- moving within the world
- manipulating objects in the world

In or out?

- flight simulator ** in **
- desktop metaphor - folders, trash ** out **
- point and click adventure games ** ? **


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

Types of VR?

Desktop VR

- ordinary screen, mouse or keyboard control
- polemount mouse, steering wheel, joystick

Immersive VR

- helmet/goggles, data glove
- body suit, trampoline

Between the Two

- motorbike (bike moves)
- ski (wind, ski move, etc.)
- simple controls

go within

- virtual roller coaster
- aircraft cockpit
- ship's bridge

Applications

simulate dangerous/expensive situations

- command and control, virtual tourism
- practicing medical procedures, treatment of phobias

see hidden real world features

virtual wind tunnel

visualize complex information

fun !!!

Engagement

- feeling part of the virtual world

Engage the senses

sight:

- visual realism, 3D effects: shadows, etc.

sound

- surround sound, sub-seal woofers, etc.

touch:

- haptic and force feedback,

and more...wind, ... burning rubber!


PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

Engage the body

- realistic devices
- movement in the environment
- interaction and control of object
- rapid feedback - more important than photo realism

Collaborative virtual environments

- virtual worlds
- multi-participant
- able to communicate (text, audio, video)
- embodied - avatars

Pros and Cons

Pros:

- great leveler
- anonymity - accountability?
- hides disability (email even better)

Cons:

- no body language
- limited communication
- SAD !!!

Learning

virtual universities

- traditional distance learning = CD ROM, video
- email, bulletin boards
- IRC/TCQ/hul
- CuSeeMe, video conferencing
- virtual worlds

virtual classroom [video]

Of real and virtual ...

augmented reality

- video image on screen
- computer tools
- video of room/work in progress


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

Immersive Virtual Reality:

In immersive VR, the user becomes fully immersed in an artificial, three-dimensional world that is completely generated by a computer.



A variety of input devices like data gloves, joysticks, and hand-held wands allow the user to navigate through a virtual environment and to interact with virtual objects. Directional sound, tactile and force feedback devices, voice recognition and other technologies are being employed to enrich the immersive experience and to create more "sensualized" interfaces.

Characteristics of Immersive VR

The unique characteristics of immersive virtual reality can be summarized as follows:

- Head-referenced viewing provides a natural interface for the navigation in three-dimensional space and allows for look-around, walk-around, and fly-through capabilities in virtual environments
- Stereoscopic viewing enhances the perception of depth and the sense of space
- The virtual world is presented in full scale and relates properly to the human size
- Realistic interactions with virtual objects via data glove and similar devices allow for manipulation, operation, and control of virtual worlds.



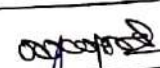
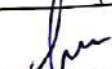
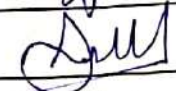
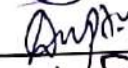
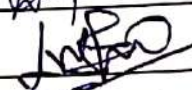


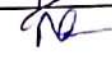

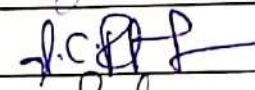
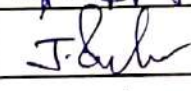
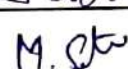
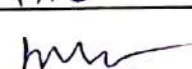
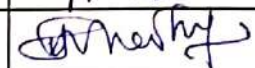
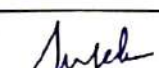
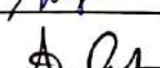
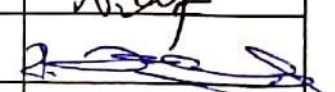
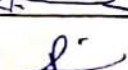
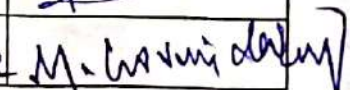
AN
PRINCIPAL

**Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU**

MAHENDRA COLLEGE OF ENGINEERING
Knowledge Sharing Forum
Attendance Sheet

TITLE : VIRTUAL REALITY

Date : 05.03.2022

S.No	Name of the faculty	Department	Signature
1.	P. PARAMESWARI	MATHS	
2.	M. GAYATHRI	CSE	
3.	Vinoth	BME	
4.	V. DEEPA	CSE	
5.	L. VINITHA DEE	CSE	
6.	S. KIRUTHI	IT	
7.	P. SHANMUGA PRIYA, AP	IT	
8.	NISHADEVI V	CSE	
9.	T. Priya	BME	
10.	A. T. Priyeshkumar	BME	
11.	T. Sampathkumar	ECE	
12.	M. SATHYA	CSE	
13.	N. Karthikeyan	IT	
14.	M. Anandraj	CSE	
15.	A. Anjali	CSE	
16.	A. JINDHAJA	CSE	
17.	R. CHANDIBAN	MECH	
18.	DR. T. RAJA	mathematics	
19.	M. GOVINDARAJ	MECHANICAL	


PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>Virtual Reality</u>	Name of the Presenter/s : <u>S. Sakthivel</u>
Today's Date: <u>05.03.2022</u>	Name of the Participant: <u>P. PARAMESWARAN</u>

For the following data's please fill your rating:

	Fair	Medium	Excellent	Good
A. Presentation				
Instructor's Knowledge				✓
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly			✓	
Instructor Responded well to questions			✓	
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	<u>-</u>
D. Any other comments or suggestions?	<u>NIL</u>

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [✓] EXCELLENT


Signature of Participant
PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU



MAHENDRA COLLEGE OF ENGINEERING



Affiliated to Anna University and Approved by AICTE

The Management, Principle, Faculty
Cordially invite you to the

“KNOWLEDGE SHARING FORUM”

PRESENTED

DATE: 20.05.2022

SESSION: 10:00 am to 11:30 am

Mrs.UMA.V

Assistant professor- IT

TOPIC: SOCIAL IMPACT OF COVID-19


Will be the resource persons

Dr.N.MOHANA SUNDARARAJU


Principle

Mahendra college of Engineering


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU




MAHENDRA COLLEGE OF ENGINEERING
Salem Campus, Retur main road, Minnampalli, Salem - 636106




"KNOWLEDGE SHARING FORUM"
CRITICAL THINKING AND PROBLEM SOLVING


Presented by:
VUMA
AP/IT

COVID-19
impact on statistics




Coronavirus crisis: CBS figures







100% increase in rail passengers
in April




100% increase in road passengers
in April



100% increase in health services
in April



100% increase in currency exchange
in April





100% increase in food prices
in April

<https://www.cbs.nl/en-gb>

National airports handled 98 percent fewer passengers in April

Air transport, passengers carried at 134 Dutch national airports





How much has the use of public transport declined?

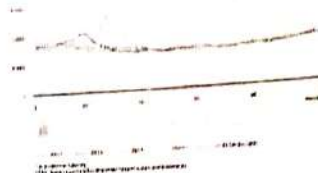
Transportation use in the Netherlands in April 2020 compared to April 2019. The chart shows a significant decline in the use of public transport, with a 98% decrease in passengers carried at national airports.


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

COVID-19 impact on public health

- How many deaths are registered weekly in the Netherlands?
- What is the number of deaths among people with long-term care?
- What is the increase in employee sickness absence?
- How many medical products are imported?
- How many people are working in the care sector?
- How many healthcare professionals are out of work?
- Which healthcare professionals are most likely to be out of work?
- What is the average distance to the nearest GP and hospital?
- What is the difference in recent mortality between institutional and private households?
- How many hospital beds are there in the Netherlands?

Deaths registered weekly



"With a total of 36 thousand deaths over weeks 11 through 19, there were almost 9 thousand more deaths than normal, representing 32 percent excess mortality."

Social impact of COVID-19

- How is the labour participation rate developing at the moment?
- How many job losses were recorded in April?
- How many people were unemployed in April?
- How many more unemployment (WW) benefits?
- Which sector recorded the largest increase in number of unemployment (WW) benefits?
- How is the crime rate developing?
- By how much has the number of asylum requests decreased?
- How much population growth was recorded over Q1 2020?
- How much contact do people normally have with family, friends or neighbours?
- Etc.

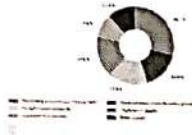
Economic impact of COVID-19

- How many entrepreneurs expect they will not survive the COVID-19 crisis?
- How is retail turnover developing?
- How many job losses were recorded in month M?
- How many people were unemployed in month M 2020?
- Which occupations have the most home-based workers?
- How many residents of Belgium and Germany are employed in the Netherlands?
- How many people work in culture, sports and recreation?
- Etc.


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

COVID-19 Impact on supply chains

Composition of goods imports from Italy 2019



- How much increase is seen in the retail turnover at Dutch supermarkets?
- What are the Netherlands' top imports from China?
- How much is imported into the Netherlands from Italy?
- Which imported products are mostly from Italy?

Dashboard freight transport

- The standard statistics are one month to a quarter behind.
- There are no "rapid" indicators.
- There is a need for up-to-date transport data.

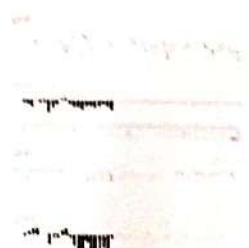
How is goods transport developing?

In April 2020, there were fewer transport movements than one year previously. More information on a weekly basis can now be found on the new dashboard 'Snelle indicatoren Goederenvervoer' (rapid indicators for goods transport). It shows the number of movements for inland shipping, aviation, rail, road and maritime transport. This dashboard was created in collaboration with the Netherlands Institute for Transport Policy Analysis (KIM), Pantela, Rijkswaterstaat, ProRail, the National Data Warehouse for Traffic Information (NDWI), Schiphol, Royal Dirkzwager and the port companies of Amsterdam, Groningen, Moerdijk, Rotterdam and Zeeland.

Road



Maritime



ND

PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU



Thank you all



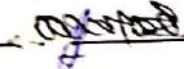
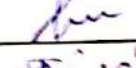
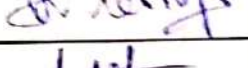
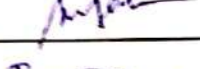

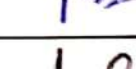
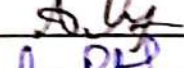
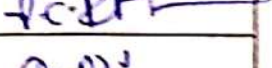
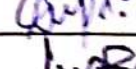

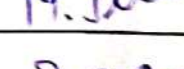


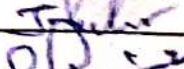

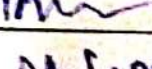


PRINCIPAL


Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

MAHENDRA COLLEGE OF ENGINEERING
Knowledge Sharing Forum
Attendance Sheet

TITLE : Social Impact of COVID-19

Date : 20.05.2022.

S.No	Name of the faculty	Department	Signature
1.	P. SHANMUGA PRIYA, AP	IT	
2.	Vinoth.s	BME	
3.	P. PARAMESWARI	MATHS	
4.	M. Gayathri	CSE	
5.	M. Anandraj	CSE	
6.	A. Anjath	CSE	
7.	P. CHANDIRAN	Mech	
8.	NISHADEVI.V	CSE	
9.	A. Indhuja	CSE	
10.	A.T. Prigesh Kumar	BME	
11.	V. DEEPA	CSE	
12.	L. VINITHA-PREE	CSE	
13.	M. Sathya	CSE	
14.	P. Priya	BME	
15.	DR. T. RAJA	Mathematics	
16.	J. Sampathkumar	ECE	
17.	S. Kirthika	IT	
18.	N. Karthikeyan	IT	
19.	M. GOVINDARAJ	MECHANICAL	


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minampalli, SALEM 636 106
 TAMILNADU

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: <u>Social Impact of COVID-19</u>	Name of the Presenter/s: <u>V. Uma</u>
Today's Date: <u>20.05.2022</u>	Name of the Participant: <u>P. Shanmuga priya</u>

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style				✓
Instructor Covered Material Clearly				✓
Instructor Responded well to questions				✓
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	<u>NA</u>
D. Any other comments or suggestions?	<u>NA</u>

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [✓] EXCELLENT

Signature of Participant

PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU



MAHENDRA

COLLEGE OF ENGINEERING

Affiliated to Anna University and Approved by AICTE

The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

06-May-2022 on 10.00 am at Seminar Hall EC 07

Session: 11.00 am to 12.00 am

Presented by

Mr.M.Govindaraj

Assistant Professor, MECH

Topic: Importance of Angel investment for startup companies

Will be the resource persons

Dr. N.MOHANA SUNDHARA RAJ

Dean-Academics


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106

IMPORTANCE OF ANGEL INVESTMENT FOR STARTUP COMPANIES.

Prepared by Mr.M.GOVINDARAJ
6TH May, 2022



Today's Agenda

- My Journey from the "Corporate" World to Angel Investing
- Should We Invest or Should We Pass
- Austin –A Place for Entrepreneurial Activity
- Background on Seed-Stage Investing
- The Central Texas Angel Network (CTAN) and Making Money in this Space
- How Banks Might Get Involved



Agenda

- My Journey from the "Corporate" World to Angel Investing
- Should We Invest or Should We Pass
- Austin –A Place for Entrepreneurial Activity
- Background on Seed-Stage Investing
- The Central Texas Angel Network (CTAN) and Making Money in this Space
- How Banks Might Get Involved

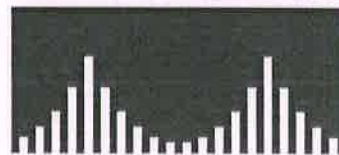


My Journey— 23 Years and 12 Years!!!!



MOTOROLA

CISCO SYSTEMS



My Journey---Where I Got the "Bug"

- Started with Cisco (1995); it was very acquisitive
 - Over 200 companies acquired while I was there (28 in 1 year!)
 - Was on the due diligence team
 - Interviewed many entrepreneurs
 - Provided valuation estimates
 - This work over four years made me appreciate entrepreneurs
- Got involved when I moved back to Austin in 2007 (VC partner & angel)



SHOULD WE INVEST OR SHOULD WE PASS?



Should I Invest In The Company Or Not-1

- Company A—a company which licenses technology from Rice University on compression sensing with strong IP to significantly reduce the cost of infrared cameras
- Company B---snack foods based on kale chips sold in retail stores and online
- Company A is out of business after 1.5 years and Company B has a valuation >\$30M and is only 5 years old with revenues approaching \$20M



Should I Invest In The Company Or Not-2

- Company A---creates an easy way for a companies to engage, manage and monetize their brand anytime for users worldwide on any type of device
- Company B---A SaaS based platform to monitor and provide access for locks of remote facilities on any device, including mobile, in many locations such as cell towers or oil wells
- Company A now has a valuation of \$220M after 7 years and Company B is out of business after 2 years



Should I Invest In The Company Or Not-3

- Company A---a free service/platform that helps Moms organize events and fundraising activities such as Girl Scouts and kids clubs, Church and sporting events
- Company B---a platform that develops simple, reliable and cost-effective patient population management and mobile health solutions in order to better manage chronic diseases as well as basic health and wellness
- Company A has been in business for 7 years and has an estimated valuation of \$30M with millions of users and Company B has been in business over 7 years, has had a significant down round and is about to go out of business



Agenda

- My Journey from the "Corporate" World to Angel Investing
- Should We Invest or Should We Pass
- **Austin -A Place for Entrepreneurial Activity**
- Background on Seed-Stage Investing
- The Central Texas Angel Network (CTAN) and Making Money in this Space
- How Banks Might Get Involved



Austin...



is the #1 city in the United States for entrepreneur activity-----but don't take my word for it....



Austin Ranks High On Many Lists

- #1 U.S. city for startup activity--Kauffman Foundation 9/16 and 9/15
- #1 U.S. city for adding tech jobs over the last 10 years—Forbes 4/15
- #1 city for creative job growth--Fast Company 6/15
- #1 Tech city in global ranking--Savills 2/15
- #1 hottest start-up city in the U.S.--RJMetrics 4/14



Austin Ranks High On Many Lists

- #1 City for startups in the US-Startup Genome Project 10/15
- #1 fastest growing large city economy since the Great Recession—WalletHub 8/15
- #3 city for tech acquisitions-CB Insights 4/14
- #3 fastest growing metro in the nation-U.S. Census 3/15
- #1 place to start a business-CNBC 10/16
- #2 city for entrepreneurs starting a business—Livability Magazine 11/16



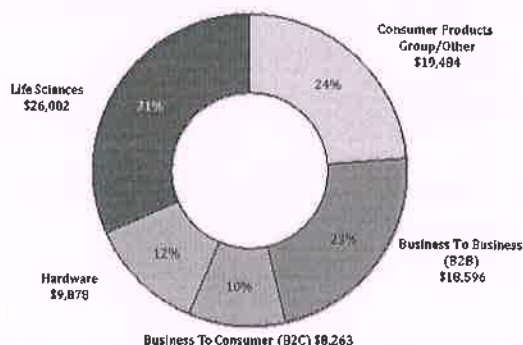
Angel and VC Stats 2014

Angel Investors	Venture Capital
\$27 B	\$32 B
75,000 deals (38,000 seed)	~4,500 deals
>315,000 individual angels	<500 active firms

Source: National Venture Capital Association/PWC Money Tree; Center for Venture Research



CTAN Investment Dollars by Special Interest Groups (SIG's) 2006-2016 (\$000's)



N. D.
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus
Minnampalli, SALEM 636 106

Can Banks Works In This Space???

- In my opinion banks should give more consideration to participating in later-stage financing needs of these companies
- These is generally needed to manage working capital requirements
- Companies are in high growth mode and likely still not EBITDA positive
- Generally cannot provide personal guarantees
- PE Groups and others are in this space now



Some Examples Where Banks Can Help

- Example 1—Company is providing aerodynamic equipment in the trucking industry and just landed a major OEM agreement and is growing sales from \$4M to \$12M
- Example 2---Company provides high-end baby strollers and just landed a major retailer and is growing sales from \$1M to over \$12M
- Example 3---Company provides a hardware/software solution to monitor electrical consumption in homes (i.e. a/c), going into a retailer and sales going from \$2M to \$8M
- Example 4---Company provides a SaaS solution to monitor vending machines in real-time and is growing sales from about \$3M to over \$12M



Consider Putting Your Toes In The Water



Thank You!!!!



NM

PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus
Mannampalli, SALEM 636 106

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Importance of Angel investment for startup companies.	Name of the Presenter/s : Mr.M.Govindaraj
Today's Date: 06/05/22	Name of the Participant: M. Anandraj

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge				✓
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly		✓		
Instructor Responded well to questions	✓			
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	This is very useful for new startup company holders
D. Any other comments or suggestions?	- Good -

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [] EXCELLENT

✓

PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus.
Minnampalli, SALEM 636 106
TAMILNADU

N.V.


Signature of Participant

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Importance of Angel investment for startup companies.	Name of the Presenter/s : Mr.M.Govindaraj
Today's Date: 06/05/22	Name of the Participant: P.GOPIS

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly		✓		
Instructor Responded well to questions			✓	
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	This is a spark for new ideas to startup business
D. Any other comments or suggestions?	—

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] ☒ GOOD [] EXCELLENT

Signature of Participant

PRINCIPAL

Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106

TAMILNADU

Mahendra College of Engineering

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Importance of Angel investment for startup companies.	Name of the Presenter/s : Mr.M.Govindaraj
Today's Date: 06/05/22	Name of the Participant: K. Prigadev


For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge				✓
Instructor's Presentation Style				✓
Instructor Covered Material Clearly			✓	
Instructor Responded well to questions			✓	
Instructor facilitated interaction among participants well		✓		

C. How could this Knowledge Sharing Forum be improved?	Stress on members & KSF Team
D. Any other comments or suggestions?	—

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [] EXCELLENT ✓


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106


 Signature of Participant

MAHENDRA COLLEGE OF ENGINEERING

Knowledge Sharing Forum

Attendance Sheet


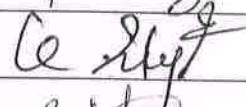
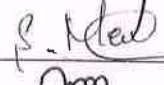
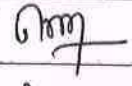

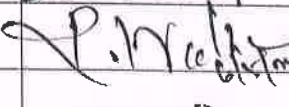
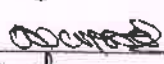

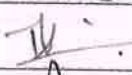
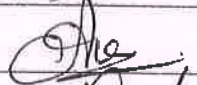
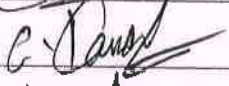
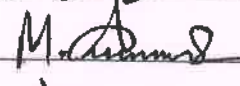


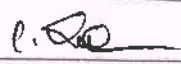
Title: Importance of Angel investment for startup companies.

Date: 06/05/22

Name of Presenter: Mr.M.GOVINDARAJ

S.No	Name of the faculty	Department	Signature
1	H. Lilly Beaulah	CSE	Huppy 6/5/22
2	M. SATHYA	CSE	M. Sathya 6/5/22
3	Dr. R. Arand	EEE	R. Arand 6/5/22
4	A. Indhuja	CSE	A. Indhuja 6/5/22
5	Dr. M. S. Saravanan.	PEE	M. S. Saravanan 6/5/22
6	S. Thanga Pandiyam	EEE	S. Thanga Pandiyam 6/5/22
7	M. Inba Arasi	EEE	M. Inba Arasi 6/5/22
8	Dr. S. Rajalaxmi	BME	S. Rajalaxmi 6/5/22
9	J. Sampathkumar	ECE	J. Sampathkumar 6/5/22
10	T. Akula	IT	T. Akula 6/5/22
11	S. Manoj Kumar	ECE	S. Manoj Kumar 6/5/22
12	A.T. Priyashree	BME	A.T. Priyashree 6/5/22
13	M. Govindaraj	MECH	M. Govindaraj 6/5/22
14	K. JAYANTHI	ECE	K. Jayanthi 6/5/22
15	V. Vinodh S	BME	V. Vinodh S 6/5/22
16	S. RAMESH KUMAR	MECH	S. Ramesh Kumar 6/5/2022
17	Shyamala G	BME	Shyamala G 6/5/22
18	T. Priya	BME	T. Priya 6/5/22
19	M. Anandee	CSE	M. Anandee 6/5/22

MAHENDRA COLLEGE OF ENGINEERING
Knowledge Sharing Forum
Attendance Sheet

S.No	Name of the faculty	Department	Signature
21.	P. Gopi	Mechanical	
22.	K. Poyaseni	Ece	
23.	MEERA .S	ECE	
24.	V. Rajakumaran	AP- Mech	
25.	P. PANNEERSELVAM	MECHANICAL	
26.	Dr. R. Namchalmar	Mech	
27.	P. PARAMESWARI	Mathematics	
28.	N. Anbumalai	mathematics	
29.	Dr. T. Raja	mathematics	
30.	R. Naseem Banu.	English	
31.	Dr. C. HANAL	AP Chemistry	
32.	M. Ayyanar	AP / Physics	
33.	Dr. A. Prabhu	AP / physics	
34.	R. CHANDIRAN.	AP / MECH	
35.	Dr. I. Prabhu	AP / mech	



MAHENDRA

COLLEGE OF ENGINEERING

Affiliated to Anna University and Approved by AICTE

The Management, Principal, Faculty

Cordially invite you to the

"KNOWLEDGE SHARING FORUM"

19-August-2022 on 10.00 am at Seminar Hall EC 07

Session: 11.00 am to 12.00 am

Presented by

Mr.T.Parthiban

Assistant Professor, MECH

Topic: Out of the box thinking for problem solving

Will be the resource persons

Dr. N.MOHANA SUNDHARA RAJ

Dean-Academics


PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus
Minnampalli, SALEM 636 001
TAMIL NADU

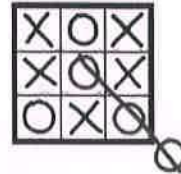
Out of the box thinking for problem solving

Mr.T.PARTHIDAN
ASSISTANT PROFESSOR
MECHANICAL ENGINEERING



P.T. To Be

**THINK
OUTSIDE
THE BOX**



... yes, but how?



P.T. To Be

The most difficult to achieve is to...

Challenge Assumptions



Generate new possibilities



P.T. To Be

A useful technique

LATERAL THINKING is a method of thinking concerned with changing concepts and perception. It is about discovering what is not immediately obvious, and about ideas that may not be obtainable by using only traditional step-by-step logic.

Dr. Edward de Bono



P.T. To Be

N.Y.

PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus.
Manampalli, SALEM - 636 106

Logical thinking is primarily concerned with judging the true value of statements and seeking errors. It is very helpful when we implement solutions.

But there comes a time when one cannot proceed further without restructuring the pattern...

...without breaking up the old pattern which has been so useful and arranging the old information in a new way.

P. C. Telle

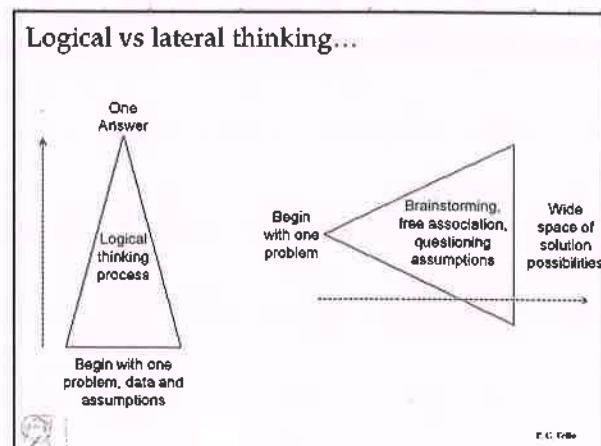
Breaking up the old pattern and generating a new possibility

P. C. Telle

Lateral vs Logical thinking...

Logical search	Lateral search
One is looking for the BEST POSSIBLE approach.	One is trying to produce as MANY ALTERNATIVES as possible.
One stops when one comes to a promising approach.	One acknowledges the promising approach and may return to it later but goes on to generating others.
One considers only reasonable alternatives.	Alternatives do not have to be reasonable.
Purpose: search for the best one.	Purpose: To loosen up rigid patterns and provoke new patterns.

P. C. Telle



Enough theory...

...let's go for the practice

(each exercise 7 min and 1 to explain solution)
(work in teams and select a presenter)



P. G. Telle

Messages to take home...

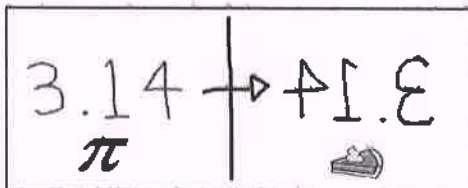
- ☐ Lateral thinking is a useful technique to actually learn how to think out of the box.
- ☐ It is complementary to our more familiar logical and critical thinking mode.
- ☐ Practise it as much as you can.



P. G. Telle

Most important...

Challenge assumptions
and
Generate new different solutions



P. G. Telle

Exercise...

Come up with a business idea for the following 3 establishments based on reversing 3 assumptions about each one of them.

Prepare a pitch of 3 min about every idea that you have generated.



P. G. Telle

Thank you
Any questions?



E.C. Telle

NV
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMILNADU

4 141

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Out of the box thinking for problem solving	Name of the Presenter/s : Mr.T.Parthiban
Today's Date: 19/08/22	Name of the Participant: M. Anandraj

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style				✓
Instructor Covered Material Clearly				✓
Instructor Responded well to questions		✓		
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	Facultate to less for all faculties and students
D. Any other comments or suggestions?	—

E. Overall, how would you rate this knowledge Form?

☐ POOR ☐ FAIR ☐ GOOD ☒ EXCELLENT

 **PRINCIPAL**
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Moalli, SALEM 636 106


 Signature of Participant

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Out of the box thinking for problem solving	Name of the Presenter/s : Mr.T.Parthiban
Today's Date: 19/08/22	Name of the Participant: <u>V. Rajakumaran</u>

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly				✓
Instructor Responded well to questions			✓	
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	<u>Well approach for new initiation of KS F</u>
D. Any other comments or suggestions?	—

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [] EXCELLENT



Signature of Participant


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106
 TAMILNADU

Mahendra College of Engineering

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Out of the box thinking for problem solving	Name of the Presenter/s : Mr.T.Parthiban
Today's Date: 19/08/22	Name of the Participant: Dr. T. RAJA

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly		✓		
Instructor Responded well to questions				✓
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	Very useful for idea holders of all levels.
D. Any other comments or suggestions?	—

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [] EXCELLENT

 **PRINCIPAL**
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106
 TAMILNADU


 Signature of Participant

MAHENDRA COLLEGE OF ENGINEERING

Knowledge Sharing Forum

Attendance Sheet

Title: Out of the box thinking for problem solving

Date: 19/08/22

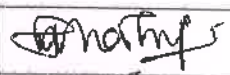

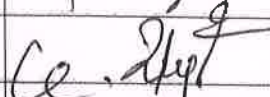
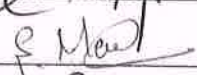
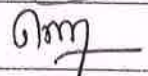
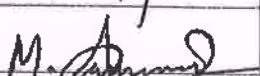
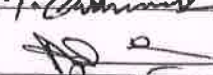

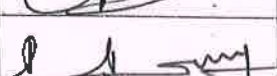
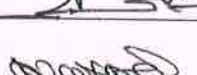


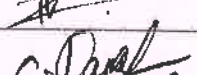
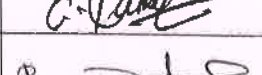


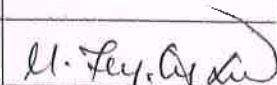
Name of Presenter: Mr.T.Parthiban

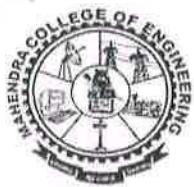
S.No	Name of the faculty	Department	Signature
1.	H. Lilly Beemath	CSE	Mupun 19/8/22
2.	A. INDHUJA	CSE	A. Indhuja 19/8/22
3.	M. SATHYA	CSE	M. Sathya 19/8/22
4.	Dr. M. U. Saravanan	EEE	M. U. Saravanan
5.	Dr. R. Anand	EEE	R. Anand
6.	S. Thanga Pandian.	EEE	S. Thanga Pandian
7.	Dr. J. Rajalaxmi	BME	J. Rajalaxmi
8.	A. T. Priyesh Kumar	BME	A. T. Priyesh Kumar
9.	T. Alcala	IT	T. Alcala
10.	M. Inba Arasi	EEE	M. Inba Arasi
11.	Dr. Shyamala	BME	Dr. Shyamala
12.	J. Sampath Kumar	ECE	J. Sampath Kumar
13.	K. JAYANTHI	ECE	K. Jayanthi
14.	S. Manoj Kumar	ECE	S. Manoj Kumar
15.	M. M. Vinodh	MECH	M. M. Vinodh
16.	T. Priya	BME	T. Priya
17.	Vinoth S	BME	Vinoth S
18.	S. RAMESH KUMAR	MECH	S. Ramesh Kumar
19.	Dr. R. Nandhakumar	Mech	Dr. R. Nandhakumar

MAHENDRA COLLEGE OF ENGINEERING

Knowledge Sharing Forum

Attendance Sheet

S.No	Name of the faculty	Department	Signature
20	M. Anandraj	CSE	
21	P. Gopi	Mechanical	
22	K. Prigzeleni	ECE	
23	MEERA S	ECE	
24	V. Rajakumaran	AP / mech	
25	M. Ayyanar	AP / physics	
26	Dr. A. Prabhu	AP / phys	
27	A. Naseem/Banu	English	
28	P. PANNIEERSELVAM	AP / MECH	
29	P. PARAMESWARI	AP / Maths	
30	N. ANBUMANI	AP / maths	
31	Dr. T. RAJA	AP / maths	
32	Dr. C. KAMAL	AP / Chemistry	
33	P. CHANDIRAN	AP / MECH	
34	Dr. C. Prabhu	AP - mech	
35	M. Haridass.	ASP / mech	
	M. Jeyoun Rk	CSE	



MAHENDRA

COLLEGE OF ENGINEERING

Affiliated to Anna University and Approved by AICTE

The Management, Principal, Faculty

Cordially invite you to the

“KNOWLEDGE SHARING FORUM”

18-February-2022 at 10.00 a.m.

Session: 11.00 am to 12.00 am

Presented by

Dr.N.Senthilkumar

Associate Professor, MECH

Topic: STRESS MANAGEMENT

Will be the resource persons

Dr. N.MOHANA SUNDHARA RAJ

Dean-Academics

To join the video meeting, click this link: <https://meet.google.com/xga-ffbz-xwg>

A handwritten signature in blue ink, appearing to be 'N. Senthilkumar', is written over a horizontal line.

PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Miyampalli, SALEM 636 106

STRESS MANAGEMENT

KNOWLEDGE SHARING FORUM
BY

Dr.N.SENTHILKUMAR
ASSOCIATE PROFESSOR
MECHANICAL ENGINEERING



What is Stress?

- ◆ Stress can be defined as our mental, physical, emotional, and behavioral reactions to any perceived demands or threats.



The "Fight or Flight" Response



- ◆ When situations seem threatening to us, our bodies react quickly to supply protection by preparing to take action. This physiological reaction is known as the "fight or flight" response.

- The physiological response to a stressor is known as reactivity
- Physiological responses can accumulate and result in long-term wear on the body



What Makes Something Stressful?

- ◆ Situations that have strong demands
- ◆ Situations that are imminent
- ◆ Life transitions
- ◆ Timing (e.g., deviation from the "norm")
- ◆ Ambiguity
- ◆ Desirability
- ◆ Controllability



Not All Stress is Bad...

- ◆ **Distress** is a continuous experience of feeling overwhelmed, oppressed, and behind in our responsibilities. It is the all encompassing sense of being imposed upon by difficulties with no light at the end of the tunnel.
 - Examples of distress include financial difficulties, conflicts in relationships, excessive obligations, managing a chronic illness, or experiencing a trauma.
- ◆ **Eustress** is the other form of stress that is positive and beneficial. We may feel challenged, but the sources of the stress are opportunities that are meaningful to us. Eustress helps provide us with energy and motivation to meet our responsibilities and achieve our goals.
 - Examples of eustress include graduating from college, getting married, receiving a promotion, or changing jobs.

Stress Response: Example

- ◆ A good example of a stressful situation for many people is taking a test. If you find testing to be stressful, you might notice certain physical, behavioral, mental, and emotional responses.
 - Physical Response?
 - Behavioral Response?
 - Mental Response?
 - Emotional Response?



What is Stressful to You?

Work	Roommate	Legal matters
Classes	Childcare	Mental health
Studying	Finances	Law violation
Relationship with partner	Appearance	Spiritual/Religious issues
Relationship with family	Physical Health	Major/Career decisions
Relationship with friends	Not "fitting in"	Attitudes/thoughts
Trauma	Getting married	Buying a house
Change in residence	Change to a new school	Change in amount of recreation
Change in amount of social activities	Change in eating habits	Death of friend/family member

Why Do We "Stress Out"?

- ◆ For two major reasons:
 - We *perceive* a situation as dangerous, difficult, or painful.
 - We don't believe we have the *resources* to cope.



Stress Warning Signals

- ♦ What are your "red flags," or warning signs, that stress is creeping into your life? If we keep pushing ourselves, eventually something inside of us will send "red flags," or warning signs that stress is becoming a problem.



Suggestions for Reducing Stress

- ♦ **1. Find a support system.** Find someone to talk to about your feelings and experiences.



Suggestions for Reducing Stress

- ♦ **2. Change your attitude.** Find other ways to think about stressful situations.
 - "Life is 10% what happens to us, and 90% how we react to it."



Suggestions for Reducing Stress

- ♦ **3. Be realistic.** Set practical goals for dealing with situations and solving problems.
 - Develop realistic expectations of yourself and others.



Suggestions for Reducing Stress

♦ **4. Get organized and take charge.**

Being unorganized or engaging in poor planning often leads to frustration or crisis situations, which most always leads to feeling stressed.

- Plan your time, make a schedule, establish your priorities.



Suggestions for Reducing Stress

♦ **5. Take breaks, give yourself "me time."** Learn that taking time to yourself for rejuvenation and relaxation is just as important as giving time to other activities.

- At minimum, take short breaks during your busy day.



Suggestions for Reducing Stress

♦ **6. Take good care of yourself.** Eat properly, get regular rest, keep a routine. Allow yourself to do something you enjoy each day.

- Paradoxically, the time we need to take care of ourselves the most, when we are stressed, is the time we do it the least.



Suggestions for Reducing Stress

♦ **7. Learn to say "no."** Learn to pick and choose which things you will say "yes" to and which things you will not.

- Protect yourself by not allowing yourself to take on every request or opportunity that comes your way.



Suggestions for Reducing Stress



- ♦ **8. Get regular exercise.** Exercising regularly can help relieve some symptoms of depression and stress, and help us to maintain our health.



Suggestions for Reducing Stress

- ♦ **9. Get a hobby, do something different.** For a balanced lifestyle, play is as important as work.



Suggestions for Reducing Stress

- ♦ **10. Slow down.** Know your limits and cut down on the number of things you try to do each day, particularly if you do not have enough time for them or for yourself.



- Be realistic about what you can accomplish effectively each day.
- Monitor your pace. Rushing through things can lead to mistakes or poor performance. Take the time you need to do a good job.
- ♦ Poorly done tasks can lead to added stress.

Suggestions for Reducing Stress

- ♦ **11. Laugh, use humor.** Do something fun and enjoyable such as seeing a funny movie, laughing with friends, reading a humorous book, or going to a comedy show.



Suggestions for Reducing Stress

- ◆ **12. Learn to relax.** Develop a regular relaxation routine.
 - Try yoga, meditation, or some simple quiet time.



Relaxation Exercises

- ◆ Many different kinds, but 2 are:
 - **Deep Breathing**
 - **Visualization:** Visualization is a nice way of giving our minds and bodies a "mini vacation."



Stress Management: Next Steps

- ◆ Try to change the way you appraise a situation to make it less stressful
- ◆ Remember stress is normal but watch out for symptoms of stress
- ◆ Use coping skills/ways to reduce stress
- ◆ Practice relaxation techniques
- ◆ Contact TRIO advisor for counseling at 662-4365

THANK YOU!

N.V.
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 105
TAMILNADU

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Stress Management	Name of the Presenter/s : Dr.N.Senthilkumar
Today's Date: 18/02/22	Name of the Participant: M. Anandkaf

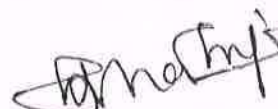
For the following data's please fill your rating:


A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge				✓
Instructor's Presentation Style				✓
Instructor Covered Material Clearly		✓		
Instructor Responded well to questions			✓	
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	ksp is useful for all level of people -
D. Any other comments or suggestions?	—

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [] EXCELLENT


 Signature of Participant


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus.
 Minnampalli, SALEM 636 106
 TAMILNADU

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Stress Management	Name of the Presenter/s : Dr.N.Senthilkumar
Today's Date: 18/02/22	Name of the Participant: Dr. C. Kamo

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style		✓		
Instructor Covered Material Clearly				✓
Instructor Responded well to questions			✓	
Instructor facilitated interaction among participants well			✓	

C. How could this Knowledge Sharing Forum be improved?	This is very useful for all level of people
D. Any other comments or suggestions?	—

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [] EXCELLENT

C. Kamo

Signature of Participant

A. Y.
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
Minnampalli, SALEM 636 106
TAMIL NADU

KNOWLEDGE SHARING FORUM EVALUATION FORM

Title: Stress Management	Name of the Presenter/s : Dr.N.Senthilkumar
Today's Date: 18/02/22	Name of the Participant: R. CHANDIGAN

For the following data's please fill your rating:

A. Presentation	Fair	Medium	Excellent	Good
Instructor's Knowledge			✓	
Instructor's Presentation Style			✓	
Instructor Covered Material Clearly		✓		
Instructor Responded well to questions				✓
Instructor facilitated interaction among participants well		✓		

C. How could this Knowledge Sharing Forum be improved?	Generally KSF is for improvement/ extent to add faculties/students
D. Any other comments or suggestions?	- Good -

E. Overall, how would you rate this knowledge Form?

[] POOR [] FAIR [] GOOD [] EXCELLENT


PRINCIPAL
 Mahendra College of Engineering
 Mahendra Salem Campus,
 Minnampalli, SALEM 636 106
 TAMIL NADU


 Signature of Participant

MAHENDRA COLLEGE OF ENGINEERING

Knowledge Sharing Forum

Attendance Sheet

Title: Stress Management


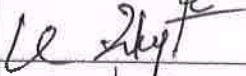

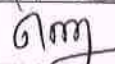
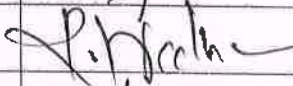
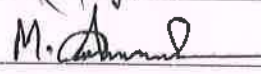
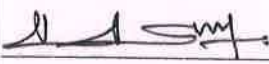


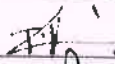

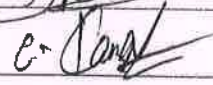
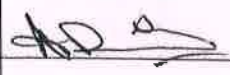


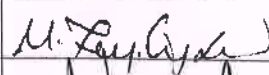

Date: 18/02/22


Name of Presenter: Dr.N.Senthilkumar

S.No	Name of the faculty	Department	Signature
1.	H. Lilly Beemle h	CSE	<i>[Signature]</i> 18/2/22
2.	S. Thanga Prudya.	EEB	<i>[Signature]</i>
3.	M. SATHYA	CSE	M. Sathya 18/2/22
4.	Dr. M. S. Sankaranarayanan	EEB	M. S. Sankaranarayanan 18/2/22
5.	P. GOPI	Mechanical	P. Gopi
6.	A. Indhuja	CSE	A. Indhuja 18/2/22
7.	M. Anandraj	CSE	M. Anandraj 18/2/22
8.	T. Akila	IT	T. Akila
9.	Dr. R. Anand	EEB	R. Anand
10.	Dr. S. Rajalakshmi	BME	S. Rajalakshmi
11.	S. Rameshkumar	MECH	S. Rameshkumar 18/2/22
12.	K. JAYANTHI	ECE	K. Jayanthi
13.	M. Inba Arasi	EEE	M. Inba Arasi
14.	J. Sampathkumar	ECE	J. Sampathkumar
15.	S. Manj Kumar	EEB	S. Manj Kumar
16.	A. T. Prigeshicumar	BME	A. T. Prigeshicumar
17.	M. Narayanan	MECH	M. Narayanan
18.	Vinodh S	BME	Vinodh S
19.	G. Shyamala	BME	G. Shyamala

N. Senthilkumar
PRINCIPAL
Mahendra College of Engineering
Mahendra Salem Campus,
SALEM 636 106

MAHENDRA COLLEGE OF ENGINEERING
Knowledge Sharing Forum
Attendance Sheet

S.No	Name of the faculty	Department	Signature
20	T. Priya	BME	
21	K. Prasadani	EC E	
22	MEERA S	ECE	
23	V. Rajakumaran	AP / Mech	
24	Dr. R. Nandhakumar	Mech	
25	M. Ayyanar	AP / Physics	
26	P. PANNERSELVAM	AP / MECH	
27	F. PARAMESWAR	AP / Maths	
28	N. ANBUMANI	AP / Maths	
29	Dr. T. RAJA	AP / Maths	
30	A. Naseem Banu	English	
31	Dr. C. KAMAL	AP / Chemistry	
32	Dr. A. Prabhu	ASP / phy	
33	P. CHANDIRAN	AP / MECH	
34	Dr. C. Prabhu	AP / mech	
35	M. JENOCIN let.	ec	
36	M. Hanidass	ASP / mech	


PRINCIPAL
 Mahendra College of Engineering,
 Mahendra Salem Campus.

FEW GLIMPSE OF KNOWLEDGE SHARING FORUM (2021-2022)

