

ACADEMY OF MARITIME EDUCATION AND TRAINING

List of Teachers using ICT

Academic Year 2019-2020

ACADEMY OF MARITIME EDUCATION AND TRAINING
ICT usage in the Academic Year of 2019-20 EVEN Semester

S.No	Date	Name of the Faculty	Course code & Name	Dept./Sem/ Group	Period	ICT Tool Used	Topic Covered
1	03.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-7	5	LCD Projector Laptop Audio System	Factors Influencing resistance of a conductor
2	04.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-4	3	LCD Projector Laptop Audio System	Ohm's Law
3	06.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-5	7	LCD Projector Laptop Audio System	Temperature coefficient of resistance
4	07.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-4	3	LCD Projector Laptop Audio System	Kirchoff's Law
5	08.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-4	4	LCD Projector Laptop Audio System	Capacitance
6	10.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-7	6	LCD Projector Laptop Audio System	Post Office Box
7	11.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-4	3	LCD Projector Laptop Audio System	Primary cells – Daniel Cell
8	20.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-5	7	LCD Projector Laptop Audio System	Series and parallel combination of capacitors
9	21.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-5	7	LCD Projector Laptop Audio System	Lechlanche and dry cells
10	22.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-4	4	LCD Projector Laptop Audio System	DC and AC Generators
11	25.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-4	4	LCD Projector Laptop Audio System	Transformer

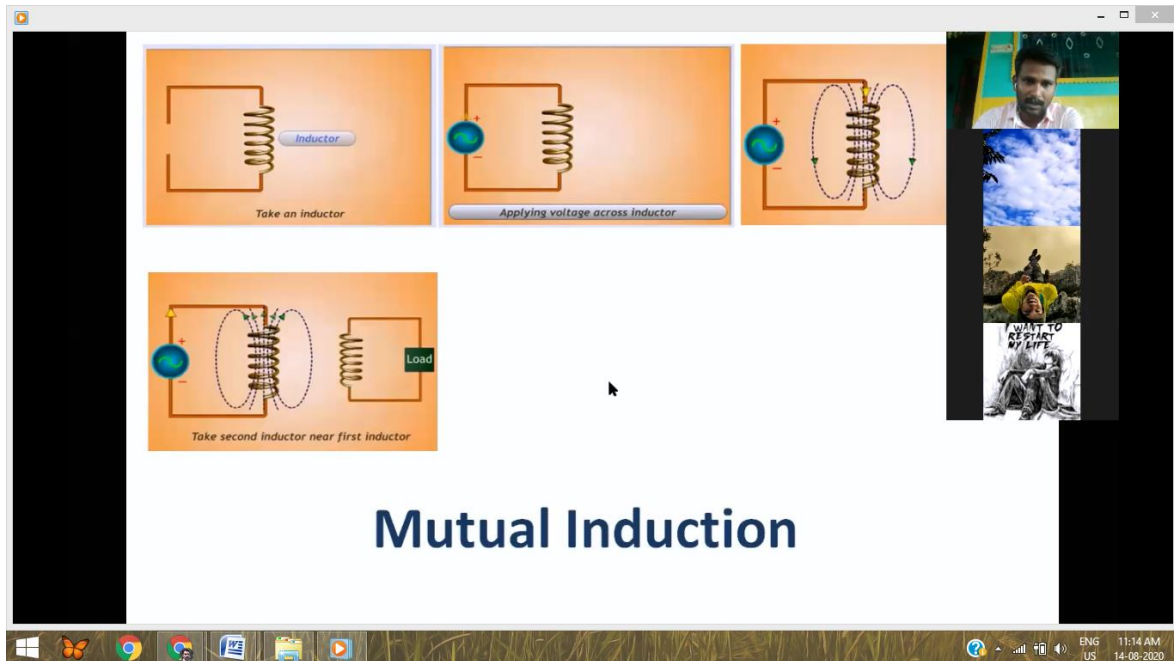
12	31.01.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-7	6	LCD Projector Laptop Audio System	Cells in series and parallel
13	25.02.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-4	4	LCD Projector Laptop Audio System	Magnetic effect of electric current
14	27.02.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-5	7	LCD Projector Laptop Audio System	Cork Screw rule
15	09.03.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-5	7	LCD Projector Laptop Audio System	Cathode ray tube (CRT)
16	11.03.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-4	3	LCD Projector Laptop Audio System	Radio Broadcasting – Transmission and Reception
17	12.03.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-7	5	LCD Projector Laptop Audio System	Basic Elements of a communication system
18	13.03.20	Dr. K. Anandan	UD1PH12 & NPE - II	NS/II/Group-4	4	LCD Projector Laptop Audio System	Modulation

Note*: Lesson Plan and Course file should match with the Date, ICT Tools used, and Topic covered

No. ICT Tools and Resources

1. LCD Projector
2. Computers
3. Laptops
4. Internet Connectivity
5. Wi-Fi
6. Audio Systems
7. Whiteboards
8. Presentation Clickero
9. USB
10. Microphone
11. Head Phone

Online Classes conducted to the Students for the Academic year 2019 – 2020 Even Semester via Zoom/Google Class room/CAMU



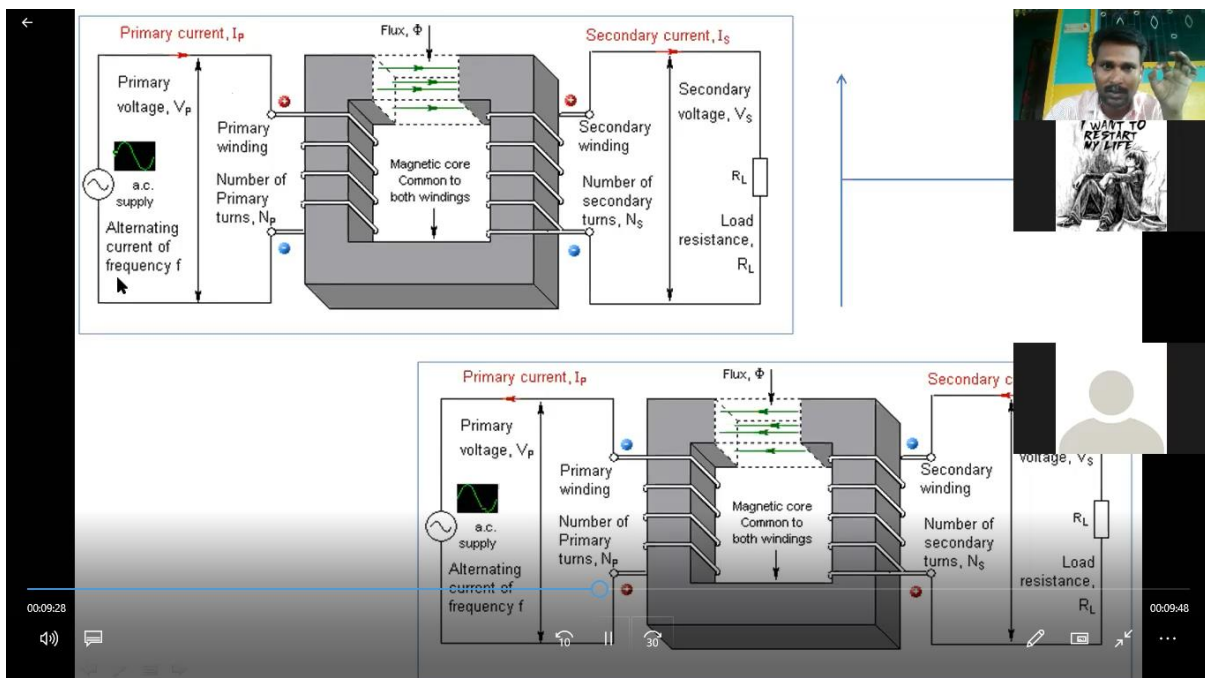
Take an inductor

Applying voltage across inductor

Take second inductor near first inductor

Mutual Induction

ENG US 11:14 AM 14-08-2020



Primary current, I_p

Primary voltage, V_p

Primary winding

Number of Primary turns, N_p

a.c. supply

Alternating current of frequency f

Flux, Φ

Magnetic core Common to both windings

Secondary current, I_s

Secondary voltage, V_s

Secondary winding

Number of secondary turns, N_s

Load resistance, R_L

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00:09:48

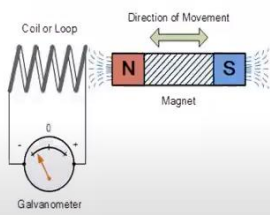
Faraday's Laws of Electromagnetism

electrical4u.com/faraday-law-of-electromagnetic-induction/

Faraday's Second Law

It states that the magnitude of emf induced in the coil is equal to the rate of change of flux that linkages with the coil. The flux linkage of the coil is the product of the number of turns in the coil and flux associated with the coil.

Faraday Law Formula




Consider, a magnet is approaching towards a coil. Here we consider two instants at

Kirchhoff's laws

Ohm's law is applicable only for simple circuits. For complicated circuits, Kirchhoff's laws can be used to find current or voltage.

Gustav Kirchhoff



German Physicist

(i) Kirchhoff's First law (Current law)

(ii) Kirchhoff's Second law (voltage law)

Capacitance of a parallel plate Capacitor

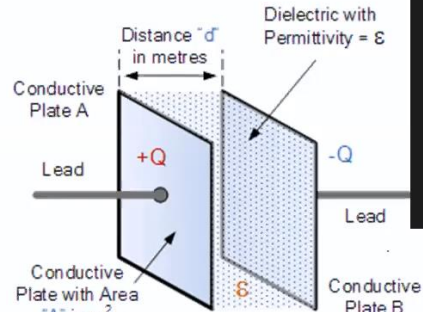
The capacitance of a parallel plate capacitor (C) is directly proportional to the area (A), and inversely proportional to the distance (d) (i.e. the dielectric thickness) between these two conductive plates.

$$C = \frac{\epsilon_0 A}{d}$$

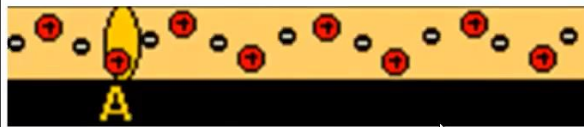
where

ϵ_0 represents the absolute permittivity of the dielectric material being used.

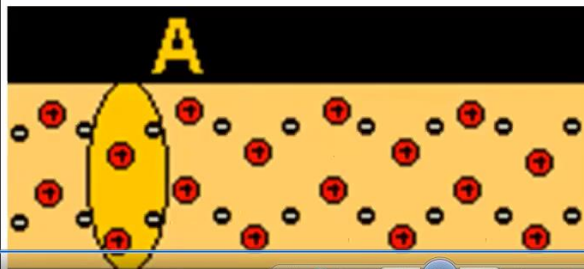
The permittivity of a vacuum, ϵ_0 , also known as the "permittivity of free space" has the value of the constant 8.85×10^{-12} farads per metre.



Resistance is inversely proportional to cross-sectional area of conductor



high resistance
low current



low resistance
high current

$$R \propto \frac{1}{A}$$

A

1. Moving Coil Galvanometer.mp4 - VLC media player

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where $K = \frac{C}{nBA}$ is the galvanometer constant.

i.e., $I \propto \theta$

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Nautical Physics & Electronics - II (Unit-II & IV).pdf - Adobe Acrobat Reader DC

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Home Tools Nautical Physics & ... x

Substituting this in Eq. (2),

$$\varepsilon = L_2 \frac{dl_2}{dt} + M \left(\frac{L_2 - M}{L_1 - M} \right) \frac{dl_2}{dt}$$

$$= \left[L_2 + M \left(\frac{L_2 - M}{L_1 - M} \right) \right] \frac{dl_2}{dt}$$

$\therefore \varepsilon (L_1 - M) = (L_1 L_2 - M^2) \frac{dl_2}{dt}$

Similarly, eliminating $\frac{dl_2}{dt}$ from Eq. (2),

$$\varepsilon (L_2 - M) = (L_1 L_2 - M^2) \frac{dl_1}{dt} \quad \dots(4)$$

Adding Eqs. (3) and (4),

$$\varepsilon (L_1 + L_2 - 2M) = (L_1 L_2 - M^2) \left(\frac{dl_1}{dt} + \frac{dl_2}{dt} \right)$$

zoom_0

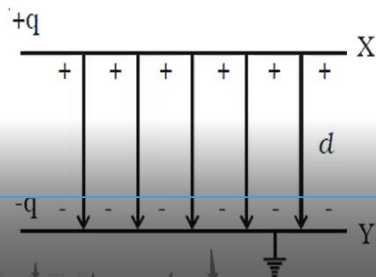
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$L_1 - M$

$= \frac{L_1 L_2 - L_2 M + L_2 M - M^2}{L_1 - M}$

00:06:22 00:01:16

- ❖ The parallel plate capacitor consists of two parallel metal plates X and Y each of area A, separated by a distance d .
- ❖ The medium between the plates is air.
- ❖ A charge $+q$ is given to the plate X. It induces a charge $-q$ on the upper surface of earthed plate Y.
- ❖ When the plates are very close to each other, the field is confined to the region between them.
- ❖ The electric lines of force starting from plate X and ending at the plate Y are parallel to each other and perpendicular to the plates.



The capacitance (C) of the parallel plate capacitor

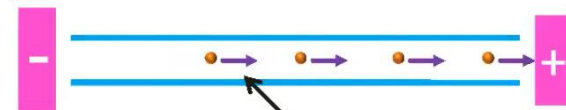
$$C = \frac{\epsilon_0 A}{d}$$

Permittivity constant ϵ_0 .

Direct and Alternating Current (DC & AC)

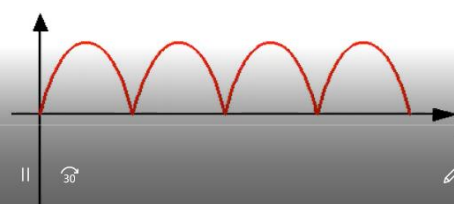
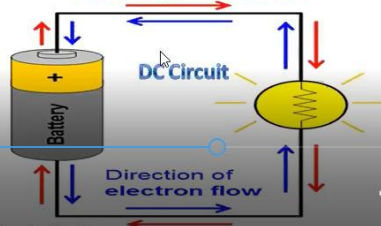
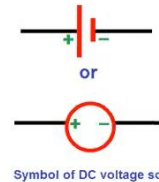
- There are two different types of current in widespread use today.
- They are direct current, abbreviated DC, and alternating current, abbreviated AC.

• In a **Direct Current**, the electrons flow in one direction. Batteries create a direct current because the electrons always flow from the 'negative' side to the 'positive' side.



Direct current

Direction of conventional current



FACTORS THAT AFFECT RESISTANCE

THE RESISTANCE OF A CONDUCTOR DEPENDS ON ITS..

LENGTH

THICKNESS and TEMPERATURE

Also, some materials conduct electricity better than others Eg. Copper is better than iron

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Electrical Energy and Power

Electrical appliances at home transfer energy from the mains supply to heat and light our homes as well as to operate our appliances such as TV, Microwave and Computers etc.

The amount of energy transferred from the mains to appliance depends on the power rating of the appliance and the time for which it is switched on.

Appliances used for heating have a much higher rating than those used to produce light or sound.

Energy = power × time

Power, P is measured in watts (W)

A 700 W microwave oven is switched on for one minute.

$E = 700 \text{ W} \times 60 \text{ s}$
 $E = 42,000 \text{ J}$

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00:26:09

ICT USAGE BY FACULTY AND ONLINE TEACHING SCREENSHOT

Course	Faculty
Ship Design	Mr. MSP Raju

PowerPoint Slide Show - [Ship Design_Bulbous Bow] - Microsoft PowerPoint (Product Activation Failed)



AMET
ACADEMY OF MARITIME EDUCATION AND TRAINING
DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act 1956)

Subject : Ship Design
Topic : Design of Bulbous Bow
Year : 3rd Year, (B.E NAOE)

Prof. MSP RAJU
Naval Architecture and offshore Engineering
AMET UNIVERSITY

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Slide 1 of 19



Ship Design, Forward Sections - Microsoft PowerPoint (Product Activation Failed)

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Slides Outline

1 AMET ACADEMY OF MARITIME EDUCATION AND TRAINING DEEMED TO BE UNIVERSITY (Under Section 3 of UGC Act 1956) Subject : Ship Design Topic : Design of Ship Forward Sections Year : 3rd Year, (B.E NAOE) Prof. MSP RAJU Naval Architecture and offshore Engineering AMET UNIVERSITY

2 OBJECTIVE To understand the various sections and shapes of forward portion of a ship and selection of the optimized section.

3 TOPICS Bow Classification Hull Form Advantages and Disadvantages V Section Advantages and Disadvantages U Section Advantages and Disadvantages Planform Bow

4 BOW CLASSIFICATION Normal Bow Bulbous Bow

5 STEER PROFILE

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PowerPoint Slide Show - [Ship Design_ General arrangement] - Microsoft PowerPoint (Product Activation Failed)

AMET ACADEMY OF MARITIME EDUCATION AND TRAINING DEEMED TO BE UNIVERSITY (Under Section 3 of UGC Act 1956)

Subject : Ship Design
Topic : General Arrangement
Year : 3rd Year, (B.E NAOE)

Prof. MSP RAJU
Naval Architecture and offshore Engineering
AMET UNIVERSITY

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Slide 1 of 28

Ship Design_Main Dimensions - Microsoft PowerPoint (Product Activation Failed)

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Slides Outline

1 AMET
Subject : Ship Design
Topic : Selection of Main Dimensions
(27 Nov. 2023, 14:00:00)
Prof. MSP RAJU
Head, Automobile and Offshore Engineering
AMET UNIVERSITY

2 MAIN DIMENSIONS
• Length
• Beam
• Draft
• Depth


3 MAIN DIMENSIONS AND FORM COEFFICIENTS
• Ship Hydrodynamic Performance
• Ship Stability
• Sufficient Volume of Cargo Hold
• Adequate Structural Strength
• Construction Cost

4 LENGTH
• Function of Displacement and Speed
• Effect on Block Weight and Outfitting Weight
• Construction Cost
• Effect on Wave Resistance
• Seakeeping performance

5 BLOCK COEFFICIENT

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MAIN DIMENSIONS



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Course	Faculty
Fishing Vessel Technology	Mr. MSP Raju

FISHING VESSELS - STABILITY-I - Microsoft PowerPoint (Product Activation Failed)

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Slides Outline

1 AMET
Subject : Fishing Vessel Technology
Topic : Fishing Vessel Stability-I
Year : 3rd Year, (B.E NAOE)

2 OBJECTIVE

3 TOPICS

4 DISPLACEMENT

5 STABILITY

6 PRESSURE

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DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act 1956)

Subject : Fishing Vessel Technology
Topic : Fishing Vessel Stability-I
Year : 3rd Year, (B.E NAOE)

Prof. MSP RAJU
Naval Architecture and Offshore Engineering
AMET UNIVERSITY

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FISHING VESSELS-MATERIALS - Microsoft PowerPoint (Product Activation Failed)

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Slides Outline

1 AMET
Subject : Fishing Vessel Technology
Topic : Materials for Fishing Vessel Construction
Year : 3rd Year, (B.E NAOE)

2 Materials for Fishing Vessel Construction

3 SHIP BUILDING - STEEL

4 SHIP BUILDING - STEEL

5 SHIP BUILDING - STEEL

6 SHIP BUILDING - STEEL

Slide 1 of 25 Office Theme English (India) 77%

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ACADEMY OF MARITIME EDUCATION AND TRAINING
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(Under Section 3 of UGC Act 1956)

Subject : Fishing Vessel Technology
Topic : Materials for Fishing Vessel Construction
Year : 3rd Year, (B.E NAOE)

Prof. MSP RAJU
Naval Architecture and Offshore Engineering
AMET UNIVERSITY

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Fishing Vessel Technology-Fishing Gear - Microsoft PowerPoint (Product Activation Failed)

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AMET
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(Under Section 3 of UGC Act 1956)

Subject : Fishing Vessel Technology
Topic : Fishing Gear
Year : 3rd Year, (B.E NAOE)

Prof. MSP RAJU
Naval Architecture and offshore Engineering
AMET UNIVERSITY

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ACADEMY OF MARITIME EDUCATION AND TRAINING
DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act 1956)

Subject : Fishing Vessel Technology
Topic : Fishing Gear
Year : 3rd Year, (B.E NAOE)

Prof. MSP RAJU
Naval Architecture and offshore Engineering
AMET UNIVERSITY

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Course	Faculty
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□ Sway and yaw equations with the controls working

- Eqn.24 or 25 are developed keeping the rudder at zero degrees on the centerline.
- For the equation of motion with controls working, Eqn.24 or 25 must include the forces and moments created by the control surface.
- δ_R , rudder deflection angle, measured from xz plane of ship to plane of the rudder. Positive deflection corresponds to port deflection.
- Y_{δ} and N_{δ} are called control derivatives. These are the linearized derivatives of Y and N with respect to rudder angle, δ_R .

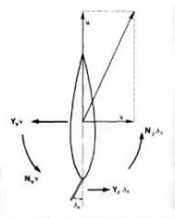


Fig: Rudder induced turning moments

Physical explanation of hydrodynamic derivatives

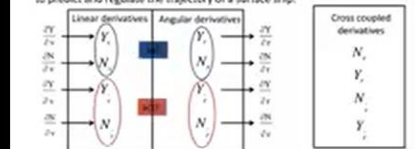
Equation of Motion – Sway and Yaw

$$m \ddot{y} - m \dot{v}^2 + \dot{Y} = 0 \quad m \ddot{r} - m \dot{v}^2 r + \dot{N} = 0$$

$$m \ddot{y} - m \dot{v}^2 y + \dot{Y} = 0 \quad m \ddot{r} - m \dot{v}^2 r + \dot{N} = 0$$

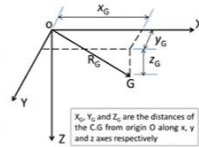
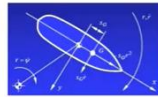
Hydrodynamic derivatives $\rightarrow \frac{\partial(\text{Force/Moments})}{\partial(\text{velocity/acceleration})} \rightarrow \frac{\partial(Y/N)}{\partial(v/r/\dot{v}/\dot{r})}$

Hydrodynamic derivatives are intrinsic property of the hull which is determined to predict and regulate the trajectory of a surface ship.



3. Ship fixed coordinate system with origin not coincident with the C.G of the ship

- For surface ships, the origin is normally located at mid-length rather than the LCG of the ship.
- Here the forces and moments acting at the C.G will be expressed in terms of components measured relative to the origin of the body.



X_G , Y_G and Z_G are the distances of the C.G from origin O along x, y and z axes respectively

Fig: Ship fixed coordinate with origin not coincident with the C.G of the ship

Course	Faculty
Shipyard Practice and Project Management	Mr. Akshar Patel

PARENT SHIP ANALYSIS

- DATA for 20 LNG Carrier vessels that were existing were collected.
- Deadweight Range : (76,000 - 96,000) Tonnes
- Selected Deadweight as per the owner's requirement : 85,000 Tonnes i.e. (34,00,000 cu ft)
- Ratios of the dimensions were calculated (L/B, B/T, D/T, L/D) to find the proportionality.
- Graphs of each ratio plotted against DWT.
- Using the trendlines equation, at the deadweight of the vessel that is to be designed, Finally the dimension of the vessels were finalised.
- Form Coefficients (C_B , C_P , C_{WP} , C_M) of the vessel was estimated using formulae available for the initial design of the vessel.

RUDDER AND PROPELLER CLEARANCE

- In order to ensure the stern form is fine and has enough clearance for rudder and propeller to be fitted, basic calculations were done.
- These include finding out the clearance shown in the picture below.
- Area and centroid of the rudder were calculated and it was checked if the Aft Perpendicular passes vertically through the centroid of the rudder stock.
- Thus, rudder and propeller were placed using these values and the clearances.

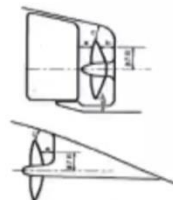


Fig 1: Rudder Propeller Clearance

RUDDER AREA:

$$A_R = \frac{T \times LBP}{100} \times \left[1 + 25 \left(\frac{B}{LBP} \right)^2 \right]$$

Area of the Rudder Obtained	55.653	m ²
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Table 4: Rudder Area

PROPELLER CLEARANCE:

$a \geq 0.2 R$ [m]	Propeller Dia. 60% of Dstl	7.2	m
$b \geq (0.7 - 0.04 N_b) R$ [m]	Propeller Radius	3.6	m
$c \geq (0.48 - 0.02 N_b) R$ [m]	No. of Propeller Blades	3	
$d \geq 0.07 R$ [m]	a	0.72	m
For twin screw ships:	b	2.068	
$b \geq (0.5 - 0.03 N_b) R$ [m]	c	1.512	
$c \geq (0.6 - 0.02 N_b) R$ [m]	d	0.252	
where,			
R = Propeller radius [m]			
N_b = Number of propeller blades.			




Table 5: Propeller Clearance

Course	Faculty
Statutory Regulations and Classification Rules	Ms. Geetha Priya

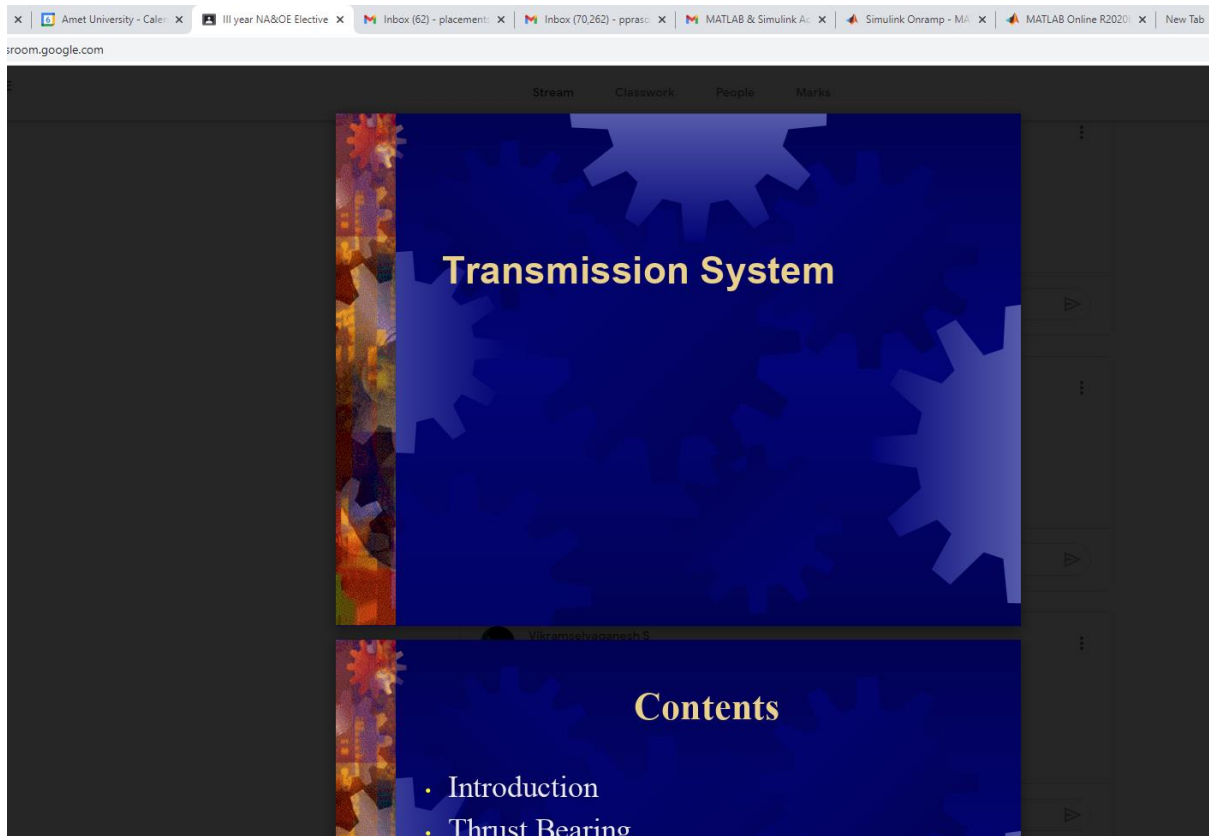
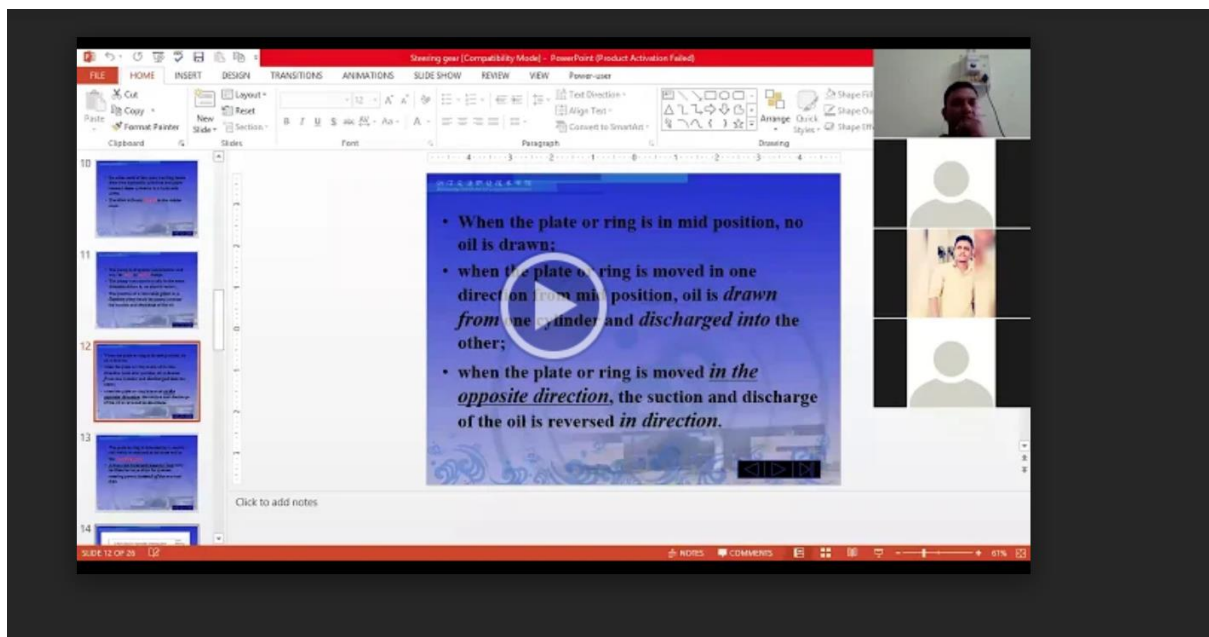
PowerPoint: Slide Show - LIFE SAVING APPLIANCES OTHER THAN LIFEBOATS (1).pptx - Microsoft PowerPoint (Product Activation Failed)

General Requirements for Life Rafts as per SOLAS:

- ONE OR MORE LIFERAFTS CAPABLE OF BEING LAUNCHED ON EITHER SIDE OF THE SHIP
- SHALL BE EQUIPPED WITH A LASHING OR AN EQUIVALENT MEANS (AUTOMATIC RELEASE FROM A SINKING SHIP)
- DISTANCE FROM EXTREME END OF STERN TO THE CLOSEST SURVIVAL CRAFT , IF IS MORE THAN 100 m; ADDITIONAL RAFTS ARE REQUIRED
- SHALL BE EQUIPPED WITH A LASHING OR AN EQUIVALENT MEANS IN ALL SEA CONDITIONS
- IF IT IS DROPPED INTO THE WATER FROM A HEIGHT OF 18 m, IT SHOULD WORK SATISFACTORILY
- CAPABLE OF WITHSTANDING A LATERAL IMPACT AGAINST THE SHIP'S SIDE AT AN IMPACT VELOCITY OF NOT LESS THAN 3.5 m/s
- THE TOTAL MASS OF THE LIFE RAFT WITH ITS CONTAINER AND ITS EQUIPMENT SHALL NOT BECOME MORE THAN 180 kg
- NO LIFERAFT SHALL BE APPROVED WHICH HAS A CARRYING CAPACITY OF LESS THAN 6 PERSONS

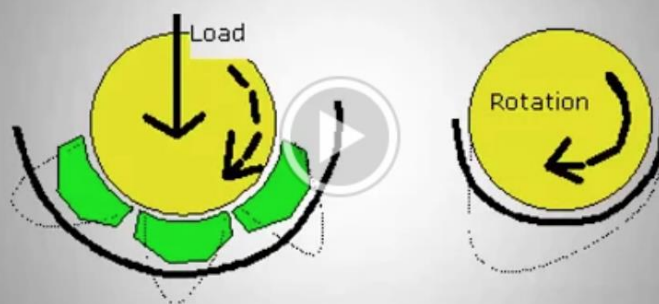
Course	Faculty
Ship Systems Engineering	Mr. Prasob P A



Course	Faculty
Marine Production Technology	Mr. Prasob P A



Shaft Bearings



Course	Faculty
Theory of Ships	Mr. Gopi Krishna

Handwritten calculations for the center of buoyancy (CB) and center of gravity (CG):

$$CB \downarrow = \frac{150 \times 8}{6150} = 0.195m$$

$$KB \downarrow = 7.317 - 0.195 = 7.122m$$

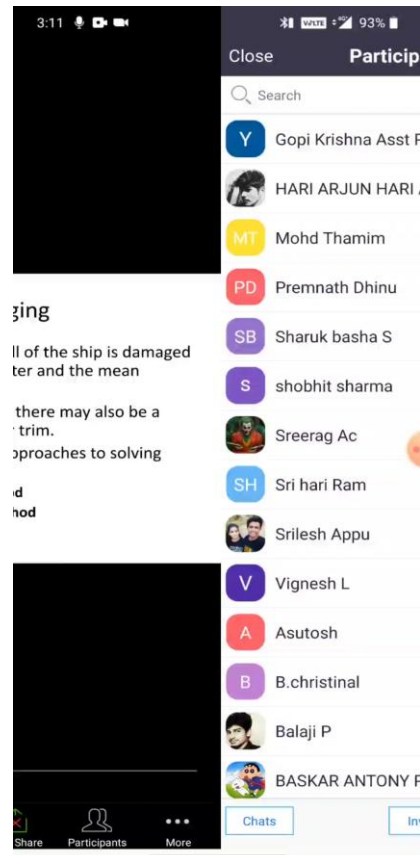
Handwritten calculations for the center of gravity (CG) when the weight is hanging from the deck:

$$CG \uparrow = \frac{150 \times 8}{6150} = 0.217m$$

$$KC \downarrow = 7.1 + 0.217 = 7.317m$$

Handwritten notes:

- $W = 6000t$ Initial
- final $W = 6150t$
- When it is hanging from deck



SHIP FORM COEFFICIENTS





Cont...

- Formulation of random wave loads
 - for $\frac{d}{\lambda} < 0.2$, Morison region
 - $F_d = 0.5 \rho C_d \sum_{j=1}^n D_j L_j (\ddot{u}_w - x_i \ddot{\theta}) \left| \ddot{u}_w - x_i \ddot{\theta} \right|$ and $F_i = \rho C_m \sum_{j=1}^n V_j \ddot{u}_w x_i L_j$ (47)
 - $(\ddot{u}_w - x_i \ddot{\theta}) \left| \ddot{u}_w - x_i \ddot{\theta} \right| = -$ (48)
 - Assumptions $|x_i \ddot{\theta}| > |\ddot{u}_w|$ and $\text{sgn}(\ddot{\theta}) = \text{sgn}(\ddot{u}_w)$
 - $F = \rho C_d \alpha_j(t) \left| \ddot{\theta} \right| - K_d \ddot{\theta} \left| \ddot{\theta} \right| - 0.5 \rho C_d \alpha_j(t) + \rho C_m \alpha_j(t)$ (50)

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Second Year

B.E(NA&OE)-12

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gopi krishna posted a new assignment: Model Exam Answer scripts
Jun 11, 2020 (Edited Jun 12, 2020)



gopi krishna posted a new material: List of topics covered
May 15, 2020



gopi krishna posted a new material: Angle of Loll
May 13, 2020



gopi krishna posted a new assignment: Cat-2 Submission
May 6, 2020 (Edited May 6, 2020)



2 class comments



gopi krishna posted a new question: Cat-2
May 6, 2020 (Edited May 6, 2020)



13 class comments



gopi krishna posted a new material: Damage Stability
Apr 14, 2020



gopi krishna posted a new material: Damage Stability
Apr 10, 2020














































Return



100 points



All students		
Sort by status		
<input type="checkbox"/>	Turned in	
<input type="checkbox"/>	Aakash	100
<input type="checkbox"/>	ABHINAV S REMESH	100
<input type="checkbox"/>	achuth raviraj	100
<input type="checkbox"/>	Afreeth sulfikar	100
<input type="checkbox"/>	Akarsh Sachi	100
<input type="checkbox"/>	Aman Tripathi	100
<input type="checkbox"/>	Ardra Guptha	100
<input type="checkbox"/>	ATHIRA UNNIKRISHNAN	100
<input type="checkbox"/>	athul sunny sunny	100
<input type="checkbox"/>	bill sunny	100

Turned in		Assigned	
All			
	Aakash		ABHINAV S REMESH
	B.AAKASH (NA1054) L.. Turned in		Abhinav s Ramesh (N.. Turned in
	ACHTUTH RAVI RAJ(.. Turned in		Afreeth sulfikar
	Afreeth.s (NA1059).pdf Turned in		Akarsh Sachi
	Akarsh(NA1060).pdf Turned in		Aman Tripathi
	IWT, Aman Tripathi,NA.. Turned in		Ardra Guptha
	ARORA M.P (IWT).pdf Turned in		
	ATHIRA UNNIKRISHNAN		athul sunny sunny
	Athul Sunny (NA1068).. Turned in		bill sunny
	IWT answer sheet.pdf Turned in		Cristy hari
	inland hari.pdf Turned in		Deebak K
	K. DEEBAK NA1075(L.. Turned in		Deepak Ssk
	Deepak S(NA1128L).. Turned in late		Hari Prasanth
	Inland water transport.. Turned in		
	Indhu Indhu		MOHAMMED BINYAMIN PANGAT
	Indhumathi.s (NA104.. Turned in		Prithiman Prithiman
	2 attachments Turned in late		raga Vendhar
	PRITHIMAN NA1090 (.. Turned in		Ravindra singh
	SAMUEL MANJUNATH		Rohan Ghadge
	SATHISH B		S.G. Ruban
	Senthil Murugan		Sivaranjani Ashokkumar
	Shibin_shyju YT		sreenivas S
	Sreeraj AS		

ICT TOOLS USED FOR THE DEPARTMENT OF MATHEMATICS

S.NO	HARDWARE TOOLS
1	LCD PROJECTOR
2	COMPUTERS
3	LAPTOP
4	INTERNET CONNECTIVITY
5	WIFI
6	AUDIO SYSTEMS
7	WHITE BOARD
8	USB
9	PRESENTATION CLICKER
10	MICROPHONE
11	HEADPHONE

S.NO	SOFTWARE TOOLS
1	MS POWER POINT
2	MS WORD
3.	ZOOM MEETING
4.	GOOGLE MEET
5.	CAMU

DATE: From 21.3.2020 to 04.04.2020

Sl. No	Name of the Faculty	No. of online classes handled	No. of hours online classes	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	4	1	Spherical Trigonometry	Nautical Science G7 - I year	Nautical Mathematics- II	Zoom App	40	30
			1	Finite differences	Marine G1 - I year	Engineering Mathematics-II	Zoom App	40	30
			1	Spherical Trigonometry	Nautical Science G2 - I year	Nautical Mathematics- II	Zoom App	39	22
			1	Spherical Trigonometry	Nautical Science G1 - I year	Nautical Mathematics- II	Zoom App	40	28
2	Dr.P.Balaganesan	3	1 hours 30 minutes	Finite differences	Marine G3 -I yr	Engineering Mathematics-II	Zoom App	40	30
			1	Measurements and Units	Nautical Science	Nautical	Zoom App	40	30
			1	Volume and Surface Area of solid figures	Open Elective	Mathematics for Competitive Exam	Zoom App	30	28
3	Dr.I.Paulraj Jayasimman	2	1	Evaluation of Double	B.E (Petroleum & Marine G4 -I yr	Engineering Mathematics	Zoom App	51	29
		1	30 minutes	Finite differences	Marine G4 -I yr	Engineering Mathematics II	Zoom App	40	30
4	Ms.S.MeherTaj	5	1 hour 30 minutes	Evaluation of Double Integrals	BE(EEE,FPT,Mining	Engineering Mathematics -II / UNIT-V	Zoom App	51	39
			2	Evaluation of Double	BE(MECH)-G1&G2	Engineering Mathematics	Zoom App	113	62
			1	Laplace Transforms	B.Sc(Robotics & AI)	Applied Mathematics-II/ UNIT-V	Zoom App	8	5

DATE: 06.04.2020

Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Online tool used	Total No.	No.Students participated
1	Dr.L.Rajendran	1	40 minutes	triangle - Cosine formula,sine formula	NS/I year/ G-1	Spherical Trigonometry -	Zoom App	40	27

2	Dr.P.Balaganesan	3	40 minutes	LCM and HCF	OEC/ II year	Mathematics for Competit	Zoom App	30	27
			40 minutes	Finite Differences	Marine G3/I Year	Unit -IV	Zoom App	40	35
			40 minutes	Measurements and Units	Nautical Science/I year	Unit-III	Zoom App	40	36
3	Dr.I.Paulraj Jayasimman	2	1.30 minutes	Finite difference - Numerical Integration	BE- Marine /I Year/G	Engineering Mathematics	Zoom App	34	30
			1.30 minutes	Testing of Hypothesis	B.Com/ I year /-	Business Statistics /IV	Zoom App	13	9
4	Ms.S.MeherTaj	1	60 minutes	Inverse Laplace Transforms	B.Sc(Robotics & AI)	Applied Mathematics - II	Zoom App	8	5

DATE: 07.04.2020									
Sl. No	Name of the Faculty	No. of online classes	No. of hours online	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	1	40 minutes	rule and problem	NS/I year/ G-1	I,Unit-III	Zoom App	40	30
2	Dr.P.Balaganesan	3	40 minutes	Area of triangle,Square,etc	OEC/ II year	Mathematics for Competitave	Zoom App	30	28
			40 minutes	Measurements and Units	Nautical Science G6	Unit-III	Zoom App	40	36
			40 minutes	Measurements and Units	Nautical Science G4	Unit-III	Zoom App	40	36
3	Dr.I.Paulraj Jayasimman	3	1.20 minutes	Solution of finite difference equation	BE- Marine /I Year/G2	Engineering Mathematics - II / V	Zoom App	37	25
			40 minutes	est, F-test	B.Com/ I year /-	Business Statistics /IV	Zoom App	13	8
			1 hour	Finite difference - Solution of finite	BE- Marine /I Year/G4	Engineering Mathematics - II / V	Zoom App	35	22
4	Ms.S.MeherTaj	2	50 minutes	Application of Laplace Transforms	B.Sc(Robotics & AI)	Applied Mathematics - II	Zoom App	8	5
			50 minutes	Evaluation of Triple integrals	BE(MECH)-Group-I	Engineering Mathematics - II	Zoom App	55	30

DATE: 08.04.2020									
Sl. No	Name of the Faculty	No. of online classes	No. of hours online	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	2	40 minutes	Basic definitions	NS/I year/ G-7	Spherical Trigonometry - I,Unit-III	Zoom App	40	25
			50 minutes	Finite difference - Stirlings Formula	BE- Marine /I Year/G1	Engineering Mathematics - II (unit-IV)	Zoom App	40	30
2	Dr.P.Balaganesan	3	40 minutes	Area of Circle and sphere, etc	OEC/ II year	Mathematics for Competitaive	Zoom App	30	27
			40 minutes	mensuration problems- Part C	Nautical Science _G6	Unit-III	Zoom App	40	32
			40 minutes	mensuration problems- Part C Pattern	Nautical Science _G4 /I year	Unit-III	Zoom App	40	33
3	Dr.I.Paulraj Jayasimman	2	50 minutes	Solution of finite	BE- Marine /I	- II / V	Zoom App	35	21
			1.40minutes	Evaluation of Triple integrals	BE- PE &NA /I Year/-	Engineering Mathematics - II / V	Zoom App	51	25
4	Ms.S.MeherTaj	1	45minutes	Evaluation of Triple integrals	BE(EEE,MINING), B.Tech(FPT)	Engineering Mathematics - II / V	Zoom App	51	36

DATE: 09.04.2020									
Sl. No	Name of the Faculty	No. of online classes	No. of hours online	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	1	40 minutes	Finite differences - Lagrange's Formula	BE- Marine /I Year/G1	Engineering Mathematics - II & Unit- IV	Zoom App	37	30

2	Dr.P.Balaganesan	3	40 minutes	Area of Circle and sphere, etc	OEC/ II year	Mathematics for Competitaive	Zoom App	30	27
			40 minutes	mensuration problems- B & G	Nautical Science /G6	Unit-III	Zoom App	40	32
			40 minutes	mensuration problems- Probability	Nautical Science	Unit-III	Zoom App	40	33
3	Dr.I.Paulraj Jayasimman	2	50 minutes	Probability	B.COM /I Year	Business Statistics	Zoom App	13	8
			1 hour	Change of order of integration in polar form	BE- PE &NA /I Year/-	Engineering Mathematics - II / V	Zoom App	51	33
4	Ms.S.MeherTaj	1	50 minutes	Evaluation of Triple integrals	BE(MECH)-G1	Engineering Mathematics - II / V	Zoom App	58	36

DATE: 10.04.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree, etc)	Subject Title and Unit No.	Name of the Online tool	Total No.	No.Students participated
1	Dr.L.Rajendran	1	40 minutes	cosine formula	B.sc Nautical Science /G7/I year	Nautical Mathematics-II / III	Zoom App	40	30
2	Dr.I.Paulraj Jayasimman	2	50 minutes	of difference equation	B.E-Marine /I	- II / V	Zoom App	35	27
			1 hour	integration in polar form	BE- PE &NA /I	- II / V	Zoom App	51	30
3	Ms.S.MeherTaj	2	50 minutes	First order Linear equation	BE(EEE,Mining).B. Tech(FPT)	Engineering Mathematics - II / I	Zoom App	51	33
			50 minutes	First order Linear equation	BE(MECH)-G2	Engineering Mathematics - II / I	Zoom App	55	22

DATE: 11.04.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree, etc)	Subject Title and Unit No.	Online tool used	Total No.	No.Students participated
1	Dr.L.Rajendran	1	40 minutes	Napier's rule, four part formula & problems	B.sc Nautical Science /G1/I year	Nautical Mathematics-II / III	Zoom App	40	28

2	Dr.P.Balaganesan	1	40 minutes	Mensuration	B.sc Nautical Science /G5/I year	unit III	Zoom App	40	28
3	Dr.I.Paulraj Jayasimman	3	40minutes	Finite difference- solution	B.E-Marine /I	Engineering Mathematics	Zoom App	33	23
			40 minutes	Revision of Unit-1	BE- PE &NA /I Year/-	Engineering Mathematics - II / V	Zoom App	51	31
			40 minutes	Probability -conditional probability and its	B.COM/I year/-	Business statistics/V	Zoom App	13	7

DATE: 14.04.2020									
Sl. No	Name of the Faculty	No. of online classes	No. of hours online	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	1	30 minutes	Cosine formula	B.Sc Nautical Science, G2	Nautical Mathematics - II/III	Google Classroom	39	22
2	Dr.I.Paulraj Jayasimman	2	50 minutes	Second order linear	B.E/PE&NA	Engineering Mathematics	Zoom App	51	37
			50 minutes	method of variation of	B.E/Marine-G4	Engineering Mathematics	Zoom App	35	18
3	Ms.S.Meher Taj	2	50 minutes	Second order linear equations	BE(MECH)-G1,G2	Engineering Mathematics II/ II	Zoom App	113	56
			50 minutes	Second order linear equations	B.Sc(Robotics & AI)	Applied Mathematics-II/ II	Zoom App	8	5

DATE: 15.04.2020									
Sl. No	Name of the Faculty	No. of online classes	No. of hours online	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	1	30 minutes	Cosine formula and their special cases	B.Sc Nautical Science, G7	Nautical Mathematics - II/III	Google Classroom	40	30

2	Dr.P.Balaganesan	2	40 minutes	Surface area and Volume	OEC	mathematics for competative Exam	Zoom App	30	25
			40 minutes	Numerical differential equations	Marine G3	Engineering Mathematics II/ II	Zoom App	40	30
3	Dr.I.Paulraj Jayasimman	3	40 minutes	Method of variation of parameters	B.E/PE&NA	Engineering Mathematics II/ II	Zoom App	51	36
			40 minutes	Second order linear equations	B.E/Marine-G2	Engineering Mathematics II/ II	Zoom App	35	20
			40 minutes	Probability	B.Com/I-year	Business Mathematics	Zoom App	13	8
4	Ms.S.Meher Taj	3	50 minutes	Method of variation of	BE(MECH)-G1,G2	Engineering Mathematics	Zoom App	113	55
			50 minutes	Method of variation of parameters	B.Sc(Robotics & AI)	Applied Mathematics-II/ II	Zoom App	8	4
			50 minutes	Analytic Function	BE(EEE,Mining) & B.Tech (FPT)	Engineering Mathematics II/ III	Zoom App	51	37

DATE: 16.04.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Online tool used	Total No.	No.Students participated
1	Dr.L.Rajendran	2	40 minutes	Right angle and quadrantal triangle	B.Sc Nautical Science, G1	Nautical Mathematics - II/III	Zoom App	40	33
			30 minutes	Numerical Differentiation	B.E Marine-G1	Engineering Mathematics II/ v	Google Classroom	37	30
2	Dr.P.Balaganesan	2	40 minutes	Surface area and Volume	OEC	mathematics for competative Exam	Zoom App	30	25
			40 minutes	difference	Marine G3	Engineering Mathematics	Zoom App	40	30
3	Dr.I.Paulraj	1	40 minutes	Second order linear	B.E/Marine-G2	Engineering Mathematics	Zoom App	37	26
4	Ms.S.Meher Taj	2	50 minutes	Analytic Function	BE(MECH)-G1,G2	Engineering Mathematics II/ III	Zoom App	113	58

			60 minutes	Analytic Function	B.Sc(Robotics & AI)	Applied Mathematics-II/ IV	Zoom App	8	4
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DATE: 21.04.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Online tool used	Total No.	No.Students participated
1	Dr.L.Rajendran	3	40 minutes	Polar triangle, Supplement theorem and problems	B.Sc Nautical Science, G7	Nautical Mathematics - II/III	Google Classroom	40	35
			30 minutes	Cauchy's homogeneous linear differential equation	B.E Marine-G1	Engineering Mathematics- II/ III	Google Classroom	37	32
			30 minutes	Problems on Cosine formula and Haversine formula	B.Sc Nautical Science, G2	Nautical Mathematics - II/III	Google Classroom	39	34
2	Dr.P.Balaganesan	2	40 minutes	Simple Interest Problem	OEC	mathematics for competative Exam	Zoom App	30	24
			40 minutes	Solving difference Equation	Marine G3	Engineering Mathematics- II/ II	Zoom App	40	29
3	Dr.I.Paulraj Jayasimman	2	30 minutes	Second order linear	B.E/Marine-G2	Engineering Mathematics	Google	37	26
			30 minutes	Second order linear	B.E/Marine-G4	Engineering Mathematics	Google	35	20
4	Ms.S.Meher Taj	2	60 minutes	Function of Complex Variables	BE(EEE,Mining) & B.Tech FPT)	Engineering Mathematics- II/ III	Google form-online Test	51	42
			60 minutes	Function of Complex Variables	B.Sc(Robotics & AI)	Applied Mathematics-II/ IV	Google Classroom	8	5

DATE: 22.04.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Online tool used	Total No.	No.Students participated

1	Dr.L.Rajendran	2	30 minutes	Numerical Integration	B.E Marine-G1	Engineering Mathematics - II/ III	Google Classroom	37	32
			30 minutes	Problems on Cosine formula and Haversine formula	B.Sc Nautical Science, G2	Nautical Mathematics - II/III	Google Classroom	39	34
2	Dr.P.Balaganesan	2	40 minutes	compound Interst Problem	OEC	mathematics for competative Exam	Zoom App	30	25
			40 minutes	eleminating arbitrary constants	Marine G3	Engineering Mathematics - II/ II	Zoom App	40	31
3	Dr.I.Paulraj Jayasimman	3	60 minutes	Finite difference - Online test	B.E/Marine-G2	Engineering Mathematics - II/ II	Google Classroom	37	31
			60 minutes	Finite difference - Online	B.E/Marine-G4	Engineering Mathematics	Google	35	24
			60 minutes	complex variables -online	B.E/PE & NA	Engineering Mathematics	Google	51	42
4	Ms.S.Meher Taj	2	60 minutes	Bilinear Transformation	BE(EEE,Mining) & B.Tech FPT)	Engineering Mathematics - II/ III	Google Classroom	51	40
			60 minutes	Bilinear Transformation	B.Sc(Robotics & AD)	Applied Mathematics-II/ IV	Google Classroom	8	5

DATE: 23.04.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Online tool used	Total No.	No.Students participated
1	Dr.L.Rajendran	1	40 minutes	Problems on 4-part formula	B.Sc Nautical Science, G2	Nautical Mathematics - II/III	Google Classroom	39	34
2	Dr.P.Balaganesan	2	40 minutes	compound Interst Problem	OEC	mathematics for competative Exam	Google Classroom	30	26
			40 minutes	Solving dffierence Equation	Marine G3	Engineering Mathematics - II/ II	Google Classroom	40	31
3	Dr.I.Paulraj Jayasimman	2	60 minutes	Analytical function and complex variables revision	B.E/P.E/NA	Engineering Mathematics - II/ II	Google Classroom	51	26
			40 minutes	Time series analysis- Revision	B.Com	Business Statistics/ II	Google Classroom	13	7

4	Ms.S.Meher Taj	2	60 minutes	Harmonic Function	BE(MECH)--G1,G2	Engineering Mathematics II/ III	Webex meet	113	55
			60 minutes	Harmonic Function	B.Sc(Robotics & AI)	Applied Mathematics-II/ IV	Webex meet	8	5

DATE: 24.04.2020									
Sl. No	Name of the Faculty	No. of online classes	No. of hours online	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	1	40 minutes	Problems on 4-part formula and problems on	B.Sc Nautical Science, G7	Nautical Mathematics - II/III	Google Classroom	40	32
2	Dr.P.Balaganesan	3	40 minutes	compound Interest Problem	OEC	mathematics for competitive Exam	Google Classroom	30	26
			40 minutes	Problems on 4-part formula and problems on	B.Sc Nautical Science, G4	Engineering Mathematics II/ II	Google Classroom	40	31
			40 minutes	Problems on 4-part formula and problems on spherical triangle	B.Sc Nautical Science, G3	Engineering Mathematics II/ II	Google Classroom	40	31
3	Dr.I.Paulraj Jayasimman	2	60 minutes	Method of variation of parameters	B.E-ME-G2	Engineering Mathematics II/ II	Google Classroom	37	20
			60 minutes	Time series analysis-Revision	B.Com	Business Statistics/ II	Google Classroom	13	7
4	Ms.S.Meher Taj	2	60 minutes	Harmonic Function	BE(EEE,Mining) & B.Tech (FPT)	Engineering Mathematics II/ III	Google Classroom	51	40
			60 minutes	Derivative of an analytic function	B.Sc(Robotics & AI)	Applied Mathematics-II/ IV	Webex meet	8	5

DATE: 25.04.2020									
Sl.	Name of the Faculty	No. of	No. of	Titles of online	Whom it was	Subject Title	Online tool	Total	No.Students

1	Dr.L.Rajendran	1	30 minutes	Numerical Integration	B.E Marine-G1	Engineering Mathematics	Google	37	35
2	Ms.S.Meher Taj	2	60 minutes	First order linear equation	BE(EEE,Mining) & B.Tech (FPT)	Engineering Mathematics II/ I	Google Classroom	51	36
			60 minutes	CAT -2 Online Test-1	B.Sc(Robotics & AI)	Applied Mathematics-II/ IV	Google form	8	5

DATE: 27.04.2020									
Sl. No	Name of the Faculty	No. of online classes	No. of hours online	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	3	1 hour	CAT-II	B.Sc Nautical Science, G1	Nautical Mathematics -II	Google form - Online test	40	40
			1 hour	CAT-II	B.Sc Nautical Science, G2	Nautical Mathematics -II	Google form - Online test	39	38
			1 hour	CAT-II	B.Sc Nautical Science, G7	Nautical Mathematics -II	Google form - Online test	40	39
2	Dr.I.Paulraj Jayasimman	3	60 minutes	Solution of second order	B.E-ME-G4	Engineering Mathematics	Webex meet	35	16
			40 minutes	Method of moving averages and least square	B.Com	Business Statistics/ II	Webex meet	13	5
			40 minutes	Solution of second order homogeneous linear	B.E/ PE & NA	Engineering Mathematics II/ II	Webex meet	51	37

DATE: 28.04.2020									
Sl. No	Name of the Faculty	No. of online classes	No. of hours online	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	1	1 hour	CAT-II	B.E. Marine Engineering, G1	Engineering Mathematics II	Google form - Online test	37	35

2	Dr.P.Balaganesan	6	1 hour	CAT-II	B.Sc Nautical Science, G3	Nautical Mathematics -II	Google form Online test	40	40
			1 hour	CAT-II	B.Sc Nautical Science, G4	Nautical Mathematics -II	Google form Online test	39	38
			1 hour	CAT-II	B.Sc Nautical Science, G5	Nautical Mathematics -II	Google form Online test	40	39
			1 hour	CAT-II	B.Sc Nautical Science, G6	Nautical Mathematics -II	Google form Online test	40	39
			1 hour	CAT-II	Marine Engineering Group 3	Engineering Mathematics II/ II	Google form Online test	40	39
			1 hour	CAT-II	Open Elective Course	Mathematics of Competitive	Google form Online test	31	30
3	Dr.I.Paulraj Jayasimman	3	60 minutes	Online test	B.E-ME-G4	Engineering Mathematics II/ II	Google form Online test	35	27
			60 minutes	Online test	B.E-ME-G2	Engineering Mathematics II/ II	Google form Online test	37	33
			40 minutes	Solution of second order homogeneous linear	B.E/ PE & NA	Engineering Mathematics II/ II	Webex meet	51	31
4	Mrs.S.Meher Taj	3	60 minutes	CAT-II	B.E(MECH)-G1,G2	Engineering Mathematics II	Google form Online test	113	102
			50 minutes	Cauchy integral formula	BE(EEE,Mining) & B.Tech (FPT)	Engineering Mathematics II/IV	Webex meet	51	26
			60 minutes	Inverse Laplace Transform	B.Sc(Robotics& Artificial Intelligence)	Applied Mathematics-II/ II	Webex meet	8	3

DATE: 29.04.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Online tool used	Total No.	No.Students participated
1	Dr.P.Balaganesan	2	1 hour	https://youtu.be/_T4qSrqli84	B.Sc Nautical Science, G6	Nautical Mathematics -II	Google form Online test	40	39

			1 hour	Revision	Open Elective Course	Mathematics of Competitive	Google form - Online test	31	30
2	Dr.I.Paulraj Jayasimman	3	60 minutes	simultaneous system of	B.E-ME-G4	Engineering Mathematics	Webex meet	35	27
			40 minutes	simultaneous system of	B.E-ME-G2	Engineering Mathematics	Webex meet	37	20
			40 minutes	Solution of second order homogeneous linear equation	B.Com	Business statistics / II	Webex meet	13	7
3	Mrs.S.Meher Taj	1	60 minutes	CAT -II Online Test -II	B.Sc(Robotics& Artificial	Applied Mathematics-II/ V	Google form - Online test	8	5

DATE: 30.04.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Online tool used	Total No.	No.Students participated
1	Dr.P.Balaganesan	2	1 hour	Revision	B.Sc Nautical Science, G3	Nautical Mathematics -II	Zoom App	40	30
			1 hour	Revision Coding and Decoding	Open Elective Course	Mathematics of Competitive	Zoom App	31	25
2	Dr.I.Paulraj Jayasimman	2	60 minutes	simultaneous system of	B.E-ME-G4	Engineering Mathematics	CAMU	35	24
			60 minutes	Solution of second order	B.Com	Business statistics / II	webex	13	6
3	Mrs.S.Meher Taj	2	50 minutes	Second order linear equation	BE(EEE,Mining) & B.Tech (FPT)	Engineering Mathematics II/ II	Google class room	51	33
			60 minutes		B.Sc(Robotics& Artificial	Applied Mathematics-II/ V	Google class room	8	5

DATE: 01.05.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Name of the Online tool	Total No.	No.Students participated
			50 minutes	Revision	B.Sc., Nautical Science, G1	Engineering Mathematics II/ II	Google Classroom	40	35

1	Dr.L.Rajendran	2	50 minutes	Revision	B.E-ME-G4	Engineering Mathematics II/ I	Google Classroom	37	30
2	Dr.P.Balaganesan	2	1 hour	Revision	B.Sc Nautical Science, G4	Nautical Mathematics -II	Zoom App	40	30
			1 hour	Revision	Marine	Engineering Mathematics -II	Zoom App	40	30
			1 hour	Revision	B.Sc Nautical Science, G5	Mathematics of Competitative	Zoom App	31	25
3	Dr.I.Paulraj Jayasimman	2	60 minutes	Revision Solution of second order equation	B.E-ME-G2	Engineering Mathematics II/ II	Google Classroom	37	24
			60 minutes	Revision Measures of central tendency (Mean	B.Com	Business statistics / II	Google Classroom	13	7
4	Mrs.S.Meher Taj	2	60 minutes	Cauchy residue theorem	BE(EEE,Mining) & B.Tech (FPT)	Engineering Mathematics II/ IV	webex	51	28
			60 minutes	Method of variation of parameter	B.Sc(Robotics& Artificial	Applied Mathematics-II/ II	webex	8	5

DATE: 04.05.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree.	Subject Title and Unit No.	Name of the Online tool	Total No.	No.Students participated
1	Dr.L.Rajendran	1	40 minutes	Napier's rule	B.Sc Nautical Science, G2	Nautical Mathematics -II, unit 3	Google Classroom	40	35
2	Dr.P.Balaganesan	2	1 hour	Revision	B.Sc Nautical Science, G6	Nautical Mathematics -II	webex	40	30
			1 hour	Revision	OEC	Mathematics of Competitative	webex	40	30
			1 hour	Revision	B.Sc Nautical	Nautical Mathematics -II	webex	31	25
			60 minutes	Revision Solution of ODE	B.E-ME-G4	Engineering Mathematics	webex	35	16

3	Dr.I.Paulraj Jayasimman	3	60 minutes	Online test conducted	B.Com	Business statistics / II	Google Classroom	13	7
			60 minutes	Revision solution of ODE	B.E/P.E & NA	Engineering Mathematics II/ II	Google Classroom	51	31

DATE: 05.05.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Name of the Online tool	Total No.	No.Students participated
1	Dr.P.Balaganesan	3	1 hour	Revision	B.Sc Nautical Science, G3	Nautical Mathematics -II	webex	40	30
			1 hour	Revision	OEC	Mathematics of Competitive Exams	webex	40	30
			1 hour	Revision	B.Sc Nautical Science, G6	Nautical Mathematics -II	webex	31	25
2	Dr.I.Paulraj Jayasimman	2	60 minutes	Revision Solution of ODE	B.E-ME-G2	Engineering Mathematics	webex	37	17
			60 minutes	Revision solution of ODE	B.E/P.E & NA	Engineering Mathematics	webex	51	25
3	Mrs.S.Meher Taj	2	50 minutes	Second order linear differential equation	BE(EEE,Mining) & B.Tech (FPT)	Engineering Mathematics II/ II	Google Classroom	51	30
			60 minutes	Inverse laplace transform	B.Sc(Robotics& Artificial	Applied Mathematics-II/ V	webex	8	5

DATE: 06.05.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Online tool used	Total No.	No.Students participated
1	Dr.L.Rajendran	2	30 minutes	Revision	B.Sc Nautical Science, G7	Nautical Mathematics -II	Google Classroom	40	32
			30 minutes	Revision	B.E-ME-G1	Engineering Mathematics II/ I	Google Classroom	37	30
			1 hour	Revision	B.Sc Nautical Science, G3	Nautical Mathematics -II	webex	40	30

2	Dr.P.Balaganesan	3	1 hour	Revision	OEC	Mathematics of Competitative	webex	40	30
			1 hour	Revision	B.Sc Nautical	Nautical Mathematics -II	webex	31	25
3	Dr.I.Paulraj Jayasimman	2	60 minutes	Revision Finite	B.E-ME-G2	Engineering Mathematics	webex	37	22
			60 minutes	Revision Finite differences	B.E-ME-G4	Engineering Mathematics II/ II	webex	35	16
4	Mrs.S.Meher Taj	1	60 minutes	Exact differential equation	B.Sc(Robotics& Artificial	Applied Mathematics-II/ I	webex	8	5

DATE: 07.05.2020									
Sl. No	Name of the Faculty	No. of online classes	No. of hours online	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	1	1 hour	Assignment 2	B.Sc Nautical Science, G2	Nautical Mathematics -II	Google Classroom	39	39
2	Dr.P.Balaganesan	3	1 hour	Revision	B.Sc Nautical Science, G4	Nautical Mathematics -II	webex	40	28
			1 hour	Revision	B.Sc Nautical Science, G5	Nautical Mathematics -II	webex	40	29
			1 hour	Revision	B.Sc Nautical Science, G6	Nautical Mathematics -II	webex	40	30
3	Dr.I.Paulraj Jayasimman	2	60 minutes	Revision Finite differences	B.COM	Business Statistics / II	CAMU Microsoft	13	10
			60 minutes	Revision Finite differences	B.E-ME-G4	Engineering Mathematics II/ II	webex	35	17
4	Mrs.S.Meher Taj	1	50 minutes	Revision Bilinear Transformation	BE(EEE,Mining) &B.Tech (FPT)	Engineering Mathematics II/ III	webex	51	34

		1	60 minutes	Revision Bilinear Transformation	B.Sc(Robotics& Artificial	Applied Mathematics-II/ IV	webex	8	5
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DATE: 08.05.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Online tool used	Total No.	No.Students participated
1	Dr.L.Rajendran	1	1 hour	Revision	B.Sc Nautical Science, G1	Nautical Mathematics -II/ III	Google Classroom	40	35
2	Dr.P.Balaganesan	3	1 hour	Revision	Marine	Engineering Mathematics-II/ II	webex	40	28
			1 hour	Revision	B.Sc Nautical Science, G3	Nautical Mathematics -II	webex	40	30
3	Dr.I.Paulraj Jayasimman	2	60 minutes	Revision Measures of	B.COM	Business Statistics / II	CAMU	13	9
			60 minutes	REVISION Newton	B.E-ME-G4	Engineering Mathematics	webex	35	24
4	Mrs.S.Meher Taj	1	50 minutes	Revision-Harmonic function	BE(EEE,Mining) &B.Tech (FPT)	Engineering Mathematics II/ III	webex	51	24
		1	60 minutes	Revision- Harmonic function	B.Sc(Robotics& Artificial	Applied Mathematics-II/ IV	Google Classroom	8	5

DATE: 11.05.2020									
Sl. No	Name of the Faculty	No. of online classes	No. of hours online	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	1	1 hour	Napier's rule	B.Sc Nautical Science, G2	Nautical Mathematics -II/ III	Google Classroom	39	35
2	Dr.P.Balaganesan	2	1 hour	Revision	Marine G3	Engineering Mathematics	webex	40	28

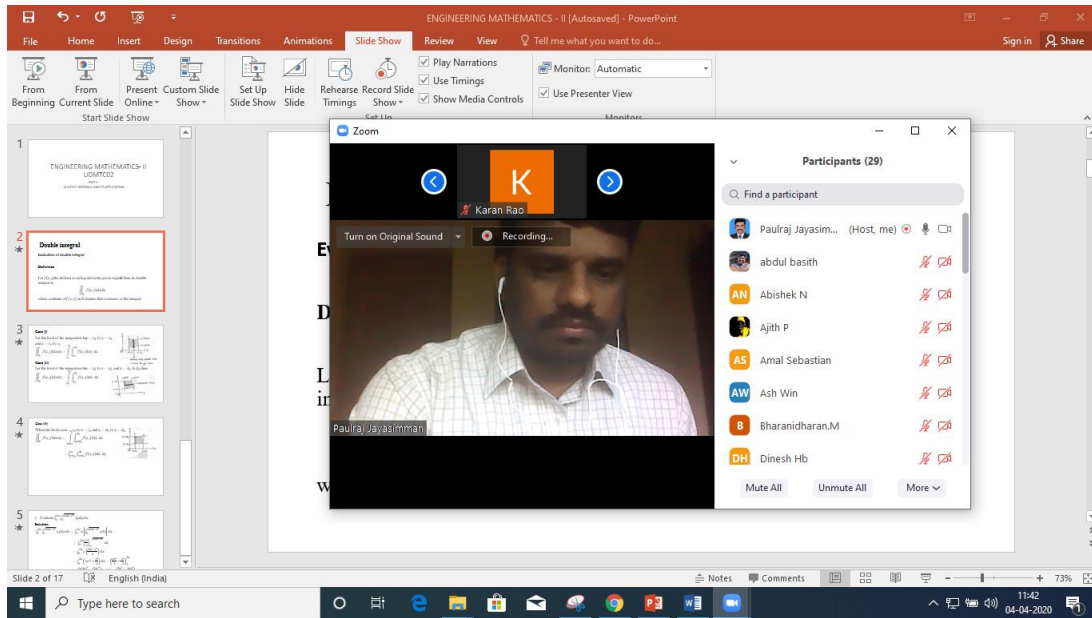
Sl. No	Name of the Faculty	No. of online classes handled	No. of hours online classes	Titles of online classes	Whom it was conducted (Degree, year and batch)	Subject Title and Unit No.	Name of the Online tool used	Total No. Students	No.Students participated
1	Dr.L.Rajendran	2	45 minutes	Unit I revision	B.Sc. Nautical Science-G7	Nautical mathematics-II/IV	Google Classroom	40	36
			45 minutes	Problems on Great Circle track	B.Sc. Nautical Science- G2	Nautical mathematics-II/IV	Google Classroom	39	35
2	Dr.P.Balaganesan	3	1 hour	Revision	Bsc.,Nautical Science-G6	Nautical mathematics-II	CAMU	38	28
			1 hour	Revision	Bsc.,Nautical Science-G5	Nautical mathematics-II	CAMU	38	30
			1 hour	Revision	B.E- Marine-G3	Engineering Mathematics-II/IV	webex	38	28
3	Dr.I.Paulraj Jayasimman	1	60 minutes	Revision - Finite differences Newtons	B.E- Marine-G4	Engineering Mathematics-II/ II	CAMU	35	24
4	Mrs.S.Meher Taj	2	60 minutes	Revision	BE(MECH)-G1G2	Engineering Mathematics-II/ II	webex	113	48
			60 minutes	Revision	B.Sc (Robotics & AI)	Applied Mathematics-II/ II	Google Classroom	8	5

DATE: 14.05.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Name of the Online tool	Total No.	No.Students participated
1	Dr.L.Rajendran	3	60 minutes	Unit III revision	B.Sc. Nautical Science-G7	Nautical mathematics-II/III	CAMU	40	28
			60 minutes	Unit III revision	B.Sc. Nautical Science-G1	Nautical mathematics-II/III	CAMU	40	38

			30 minutes	Part A	B.Sc. Nautical Science- G2	Nautical mathematics-II/IV	Google Classroom	39	35
2	Dr.P.Balaganesan	3	1 hour	Revision	Bsc.,Nautical Science-G6	Nautical mathematics-II	CAMU	38	28
			1 hour	Revision	B.E- Marine-G3	Engineering Mathematics II/ II	webex	38	28
3	Dr.I.Paulraj Jayasimman	2	60 minutes	Revision - Legrange's	B.E- Marine-G4	Engineering Mathematics	CAMU	35	30
			60 minutes	Revision Correlation and	B.COM	Business Statistics/II	CAMU	13	9
4	Mrs.S.Meher Taj	2	60 minutes	Revision	BE(EEE)	Engineering Mathematics II/ III	Google Classroom	35	17
			60 minutes	Revision	B.Sc (Robotics & AI)	Applied Mathematics-II/ IV	Google Classroom	8	5

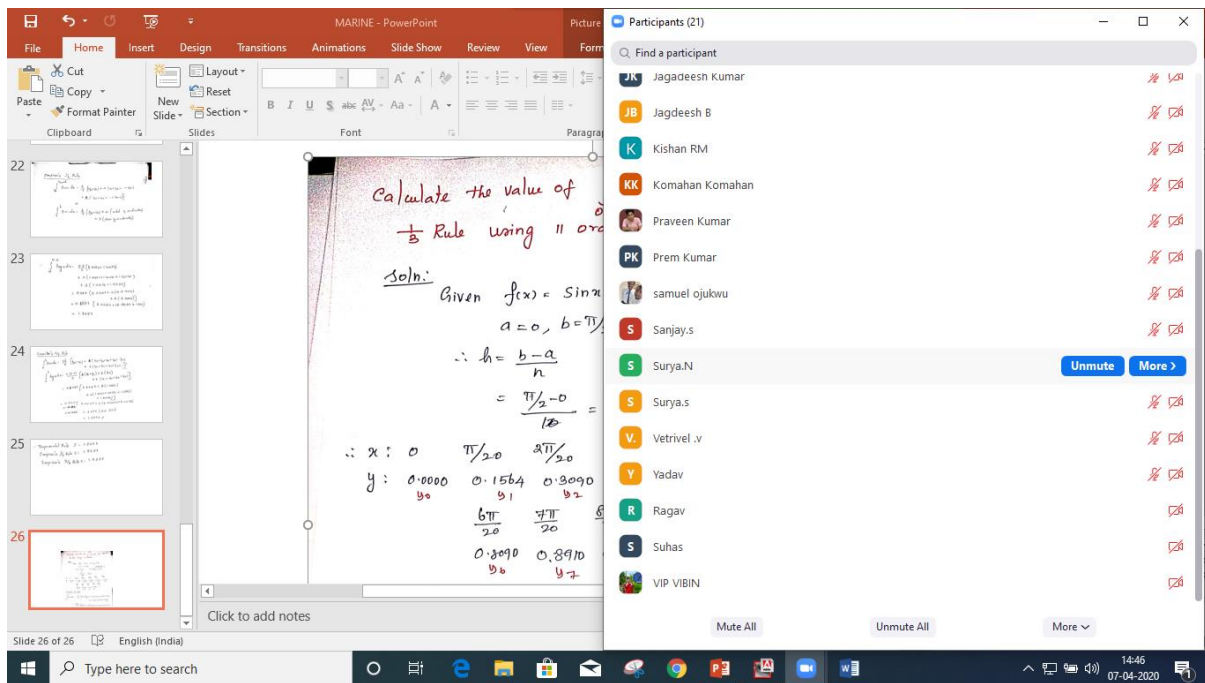
DATE: 15.05.2020									
Sl. No	Name of the Faculty	No. of online	No. of hours	Titles of online classes	Whom it was conducted (Degree,	Subject Title and Unit No.	Name of the Online tool	Total No.	No.Students participated
1	Dr.L.Rajendran	4	1 hour	Revision	B.E. Marine Engineering- G1	Engineering Mathematics II/ I	CAMU	37	22
			1 hour	Revision	B.Sc. Nautical Science-G7	Nautical mathematics-II/III	CAMU	40	26
			1 hour	Revision	B.Sc. Nautical Science-G1	Nautical mathematics-II/IV	CAMU	40	40
			1 hour	Revision	B.Sc. Nautical Science- G2	Nautical mathematics-II/III	Google Classroom	39	35
2	Dr.P.Balaganesan	2	1 hour	Revision	Bsc.,Nautical Science-G4	Nautical mathematics-II	CAMU	38	28
			1 hour	Revision	B.E- Marine-G3	Engineering Mathematics II/ II	webex	38	28
3	Dr.I.Paulraj	2	1 hour	Revision - Legrange's formula & Newtons	B.E- Marine-G2	Engineering Mathematics II/ II	CAMU	35	22

	Jayasimman		1 hour	Revision Rank correlation	B.COM	Business Statistics/II	CAMU	13	6
4	Mrs.S.Meher Taj	2	1 hour	Revision	BE(EEE,Mining)& B.Tech (FPT)	Engineering Mathematics- II/ IV	Google Classroom	51	32
			1 hour	Revision	B.Sc (Robotics & AI)	Applied Mathematics-II/ V	Google Classroom	8	5



Academic Year: 2019-2020

Program: BE (NA) , Subject -Engineering mathematics -II , Faculty: Dr.I.Paulraj Jayasimman, Associate Professor



Academic Year: 2019-2020

Program: BE (MECH) , Subject -Engineering mathematics -II , Faculty: Mrs.S.Meher Taj, Assistant Professor

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Search

PAULRAJ JAYASIMMAN
Host, me

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jagadeesh Kumar

kishanrm2002

komahankomahan24916

MUHAMMED SHAN

parthasarathy

samuel ojukwu

Shivaraj Pavithran

cos 2(x+h) cos 2x

(ii) Evaluate.

$$\Delta^2 \left(\frac{5x+12}{x^2+5x+6} \right)$$

$$\Delta^2 \left(\frac{5x+12}{x^2+5x+6} \right) = \Delta^2 \left(\frac{5x+12}{(x+2)(x+3)} \right) \quad \text{--- (1)}$$

$$\frac{5x+12}{(x+2)(x+3)} = \frac{A}{x+2} + \frac{B}{x+3} \quad \text{--- (2)}$$

$$5x+12 = A(x+3) + B(x+2)$$

$x = -3$ $-3 = B(-1)$ $B = 3$

$x = -2$ $-8 = A(1)$ $A = -8$

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Academic Year: 2019-2020

Program: BE (ME) , Subject -Engineering mathematics -II , Faculty: Dr. P. Balaganesan, Associate Professor

Zoom

Turn on Original Sound

Participants (30)

Find a participant

Paulraj Jayasimman (Host, me)

Kashif Ali

ROUNAK SAHA BANIK

Alageshwaran K

Adith M...

Mute All Unmute All More

Zoom Group Chat

From ROUNAK SAHA BANIK to Me (Privately)

sir can you send the pdfs of all the other unit's please sir

To: Everyone (in Waiting Room)

IF EVERY COME I WILL END UP THE MEETINGS

Adith M...

Paulraj Jayasimman

SABARIVASAN...

Mohan VL

Krishnakanh Jay...

sampath growth...

Sidharth Sid

Ugi Mariner

Prasad Kumar

Altamas Iqbal Iq...

jerry2001

ROUNAK SAHA BA...

Kashif Ali

Gyaneshwar Rao

Jegadesh

Preetham D V

Subi Sivakumar

ARJUN

yokesh 3020

NANDAGOPAL...

Arish King

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V Dinesh Kumar

Devdharshan

Anand krishnan

Type here to search

13:37 06-04-2020

Academic Year: 2019-2020

Program: BE (ME) , Subject -Engineering mathematics -II , Faculty: Dr. Dr.I.Paulraj Jayasimman, Associate Professor

Shift exponential and Replace D by $D+2$

$$= e^{2x} \frac{1}{(D+2)^2 - 4(D+2) + 13} \cos 3x$$

$$= e^{2x} \frac{1}{D^2 + 4D + 4 - 4D - 8 + 13} \cos 3x$$

$$= e^{2x} \frac{1}{D^2 + 9} \cos 3x$$

Replace D^2 by $-a^2 = -3^2$ (by type III)

$$= e^{2x} \frac{1}{-9 + 9} \cos 3x$$

$$= e^{2x} \frac{1}{0} \cos 3x$$

$$= e^{2x} \times \frac{1}{f'(D)} \cos 3x$$

~~$f(D) = D^2 + 9$~~
 ~~$f'(D) = 2D$~~

Academic Year: 2019-2020

Program: BE (ME) , Subject -Engineering mathematics -II , Faculty: Dr. L.Rajendran, HOD Maths

Cisco Webex Meetings

File Edit Share View Audio Participant Meeting Help

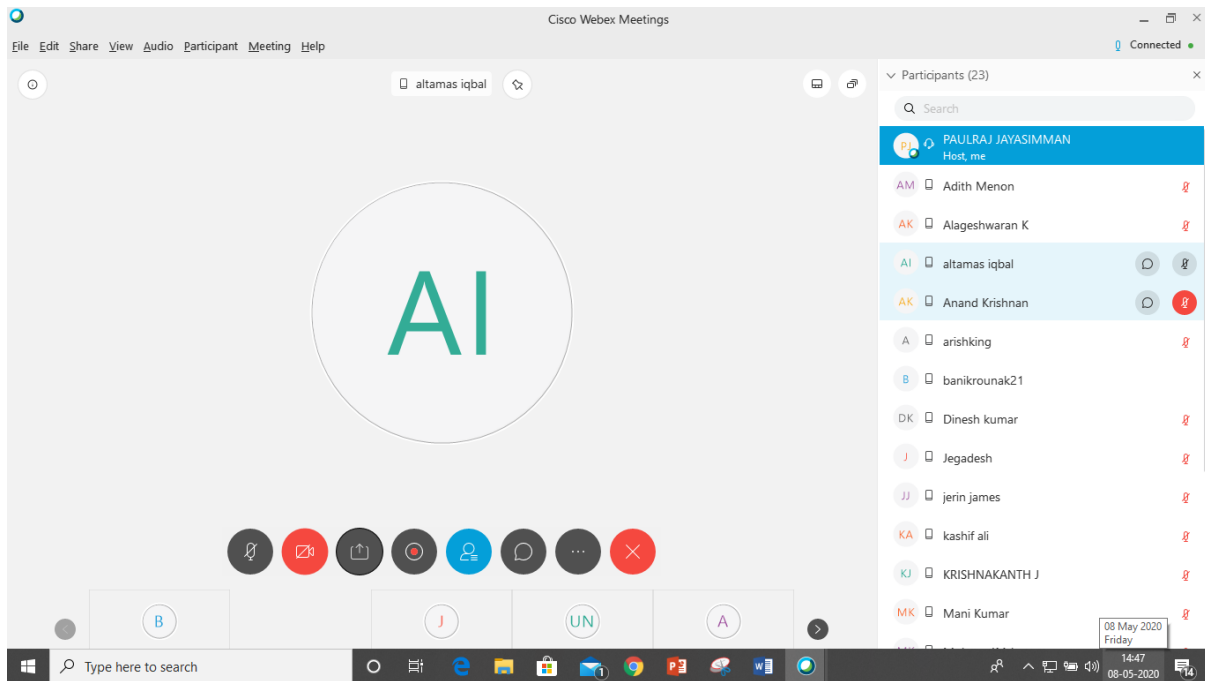
4 MUHAMMED SHAN

Participants (14)

- PAULRAJ JAYASIMMAN (Host, me)
- dthivakaran
- dineshdilip04
- Dominic Joseph
- harinarayananb
- jagadeesh b
- jagadeesh Kumar
- kishanrm2002
- komahankomahan24916
- MUHAMMED SHAN
- parthasarathy
- routsoumya05052001
- samuel ojukwu
- Surya N

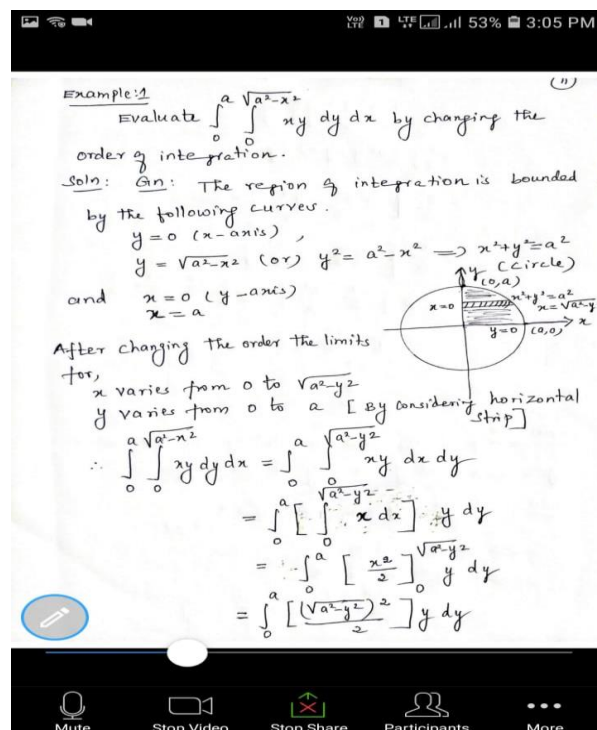
Academic Year: 2019-2020

Program: BE (PE) , Subject -Engineering mathematics -II , Faculty: Dr. Dr.I.Paulraj Jayasimman, Associate Professor



Academic Year: 2019-2020

Program: B.Com , Subject -Business Mathematics , Faculty: Dr. Dr.I.Paulraj Jayasimman, Associate Professor



Academic Year : 2019-2020

Program: BE (EEE) , Subject -Engineering mathematics -II , Faculty: Mrs.S.Meher Taj, Assistant Professor

UNIT-V
Multiple Integrals

Ex: Evaluate: $\int_0^1 \int_0^1 \int_0^1 (x+y+z) dz dy dx$

Soln:

$$\begin{aligned} \int_0^1 \int_0^1 \int_0^1 (x+y+z) dz dy dx &= \int_0^1 \int_0^1 \left[\int_0^1 (x+y+z) dz \right] dy dx \\ &= \int_0^1 \int_0^1 \left[xz + yz + \frac{z^2}{2} \right]_0^1 dy dx \\ &= \int_0^1 \int_0^1 \left[(x(1) + y(1) + \frac{1(1)^2}{2}) - 0 \right] dy dx \\ &= \int_0^1 \int_0^1 \left(x + y + \frac{1}{2} \right) dy dx \\ &= \int_0^1 \left[\int_0^1 \left(x + y + \frac{1}{2} \right) dy \right] dx \\ &= \int_0^1 \left[xy + \frac{y^2}{2} + \frac{1}{2}y \right]_0^1 dx \\ &= \int_0^1 \left[(x(1) + \frac{1(1)^2}{2} + \frac{1}{2}(1)) - 0 \right] dx \\ &= \int_0^1 \left[x + \frac{1}{2} + \frac{1}{2} \right] dx \\ &= \int_0^1 [x + 1] dx \end{aligned}$$

Academic Year : 2019-2020

Program: BE (EEE) , Subject -Engineering mathematics -II , Faculty: Mrs.S.Meher Taj, Assistant Professor

Method Moving average

Compute the trend by the method of moving averages assuming that 4-yearly cycle is present in the following series.

Year	1958	1959	1960	1961	1962	1963	1964	1965
Annual Value	54.0	40.5	47.0	48.5	42.9	48.4	36.6	42.7

Year	1966	1967	1968
Annual Value	45.7	45.1	37.8

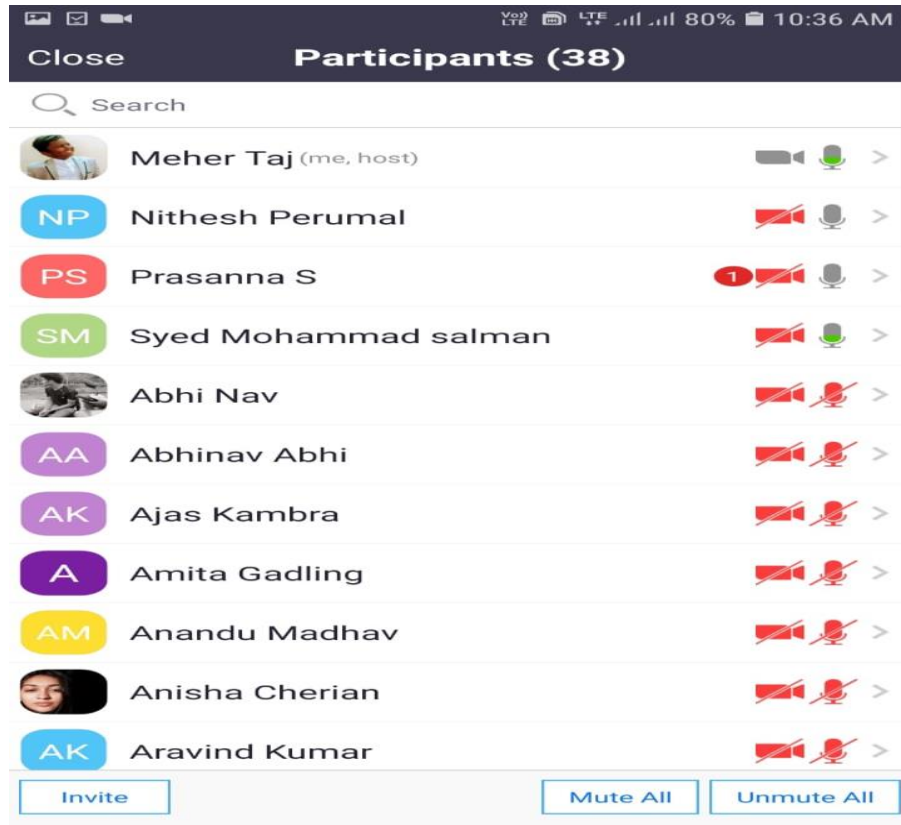
Solution

Year (x)	Annual Value (y)	4 yearly Moving Total	4 yearly Moving Average	4 yearly Moving average Continued.
1958	54.0	—	—	—
1959	40.5	—	—	—
1960	47.0	190.0	47.5	—
1961	48.5	178.9	44.7	—
1962	42.9	—	—	—
1963	48.4	—	—	—
1964	36.6	—	—	—
1965	42.7	—	—	—
1966	45.7	—	—	—
1967	45.1	—	—	—
1968	37.8	—	—	—

Note: $47.5 \div 2 \rightarrow 46.1$

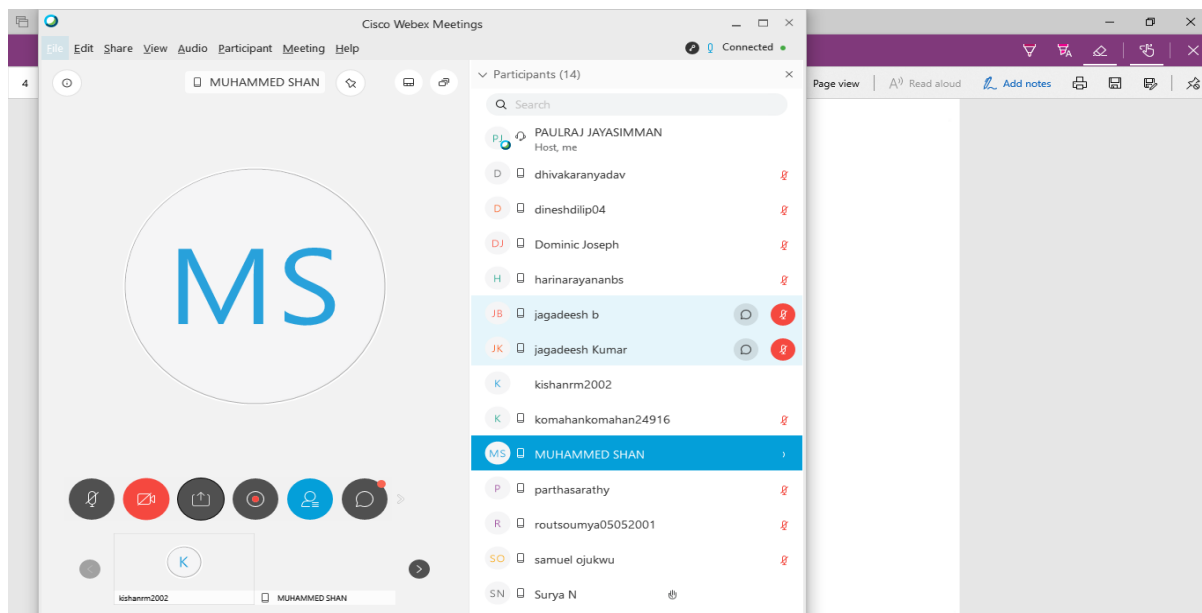
Academic Year: 2019-2020

Program: B.Com, Subject :Business Mathematics , Faculty: Dr. Dr.I.Paulraj Jayasimman, Associate Professor



Academic Year: 2019-2020

Program: BE (Mining) & B.Tech (FPT) , Subject -Engineering mathematics -II , Faculty: Mrs.S.Meher Taj
Assistant Professor



Academic Year: 2019-2020 Program: B.E (ME) , Subject -Business Mathematics , Faculty: Dr. Dr.I.Paulraj Jayasimman, Associate Professor