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S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C.Nagar, K.Vellakulam - 625 701, (Near Virudhunagar), Madurai District.

DEPARTMENT OF MECHANICAL ENGINEERING

ACCREDITED BY NBA, NEW DELHI

INNOVATION

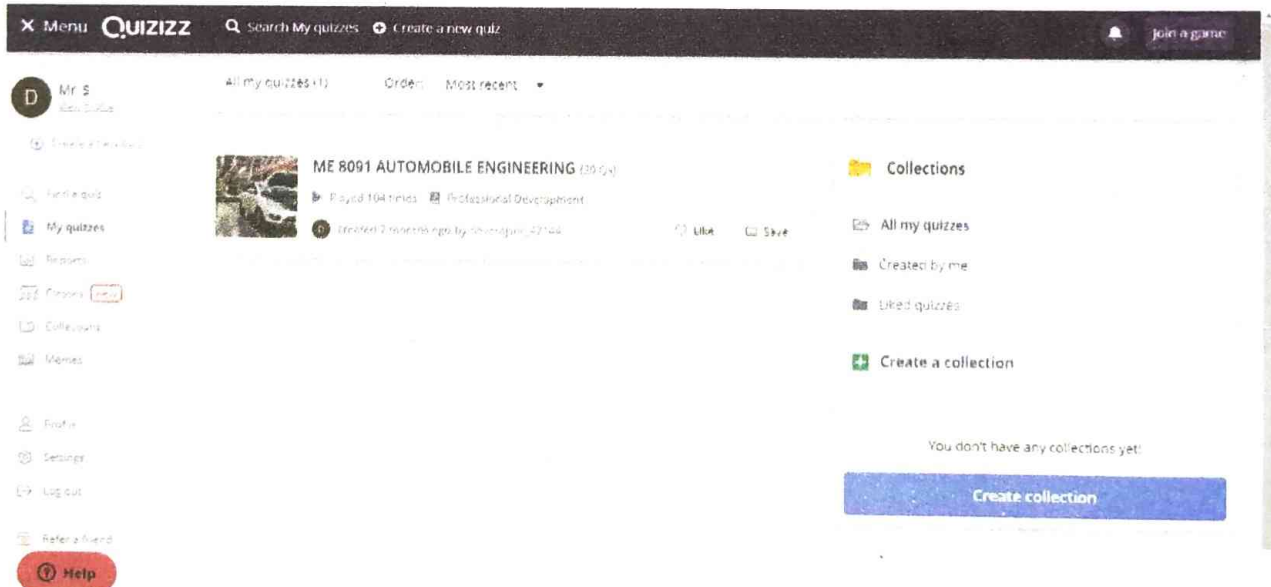
Name of the course instructor : Mr.S.DEVARAJ & Mr.M.PRITHIVIRAJ
Subject Name : Automobile Engineering
Subject Code : ME 8091
Academic Year : 2019 - 2020
Class & sec : III & (A & B)
Tool Used : Quizizz

Objective:

- Pre-Requisite to be conducted through ICT tool to analyze the whole class basic knowledge Strength.
- To summaries the data and analyze statistical data effectively.

Proof (Photo\document\any other)

Conducted Date: 16.12.2019



Menu QUIZZZ Search reports Create a new quiz join a game

Mr. S
Administrator

ME 8091 AUTOMOBILE ENGINEERING Edit

December 16th 2019, 11:11 AM (x month ago)

56% 20 97

View quiz Review mode (4/5) Live Dashboard

Players Questions Overview Standards

Print Download

Sort By: Score Email all parents

Player	Score	Accuracy	Score	Action
Surull Sankar	20	100%	25620	Email to Parent
v muniya	20	100%	23650	Email to Parent
Khalid	20	100%	23500	Email to Parent

Outcome:

- The whole class basic strength was analyzed from the result data obtained.
- The result Excel sheet can be directly obtained from the tool used quizzz which minimize the analyzing time provide reliable statistical data.



STAFF IN CHARGE

D. D. [Signature]
HODMECH



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Best practices and Innovation

Name of the course instructor : K.Muruganathan

Subject Name : Process planning and Cost Estimation

Subject Code : ME6005

Academic Year : 2019-2020 (Odd)

Class & sec : IV-B

Tool used : Activity based learning –role play , Chart preparation

Objective:

To gain knowledge in engineering processes and systems.

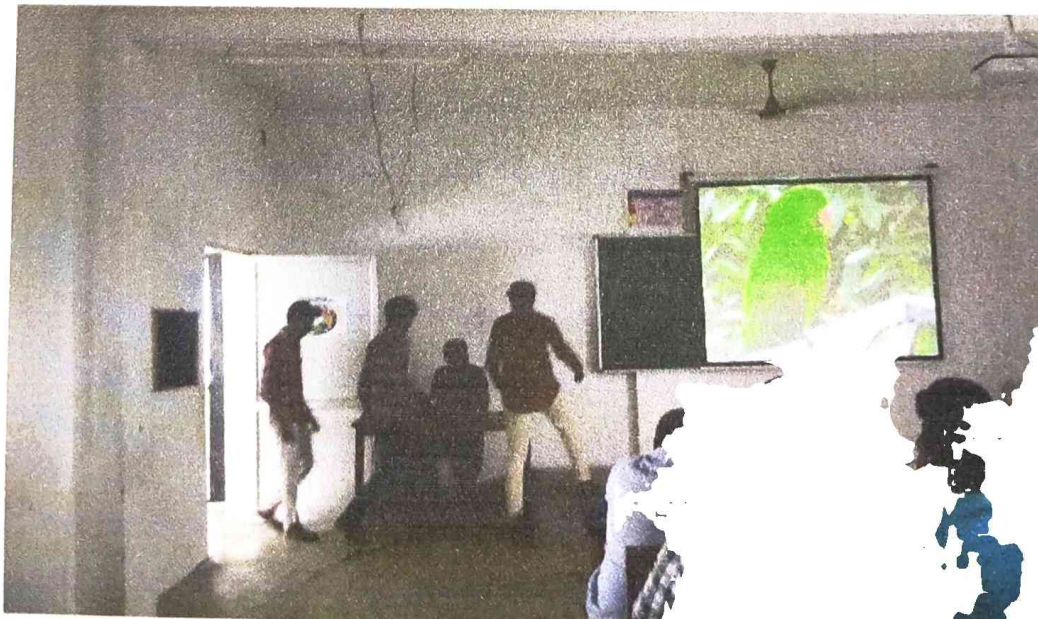
To plan a product fabrication competitively and economically.

To plan the requirements of the product, quantity, tools and equipment and eventually the costs for manufacture.

1. Role Play:

Conducted Date: 12.08.2019

Role play was conducted in the topic of **Process planning for bring a parrot from forest to home** to IV – B section students.

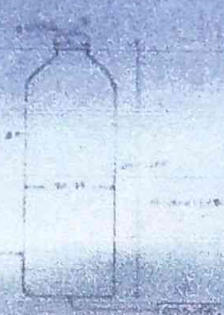


2. Chart Preparation

Chart preparation was encouraged on the topic of "Process Planning" for IV – Mech B on 11.09.19

PROCESS PLANNING

DESIGN



STEP 1: Analyse

Parts:
 A - Bottle
 B - cap

Part - A: 300g stainless steel
 Diameter = 40mm
 Height = 100mm
 Neck height = 10mm
 Material: 304 stainless steel
 Precision: ±0.05mm

Part - B: 300g stainless steel
 Cap diameter = 40mm

STEP 2: Determine

Material: stainless steel
 A: Shape: Dia 40mm
 B: Shape: Dia 40mm
 Operation: extrusion
 Extrusion → washing → threading
 Threading → washing → packing

STEP 3: Select Equipments

Equipment:
 Extrusion → metal forming machine
 Washing → washing machine
 Threading → thread machine
 Drilling → cylindrical grinding machine
 Washing → water spray company
 Packing → manual process

STEP 4: calculate

Processing time

Extrusion	30 sec
washing	30 sec
Threading	30 sec
Washing	30 sec
Packing	30 sec
Drilling	40 sec

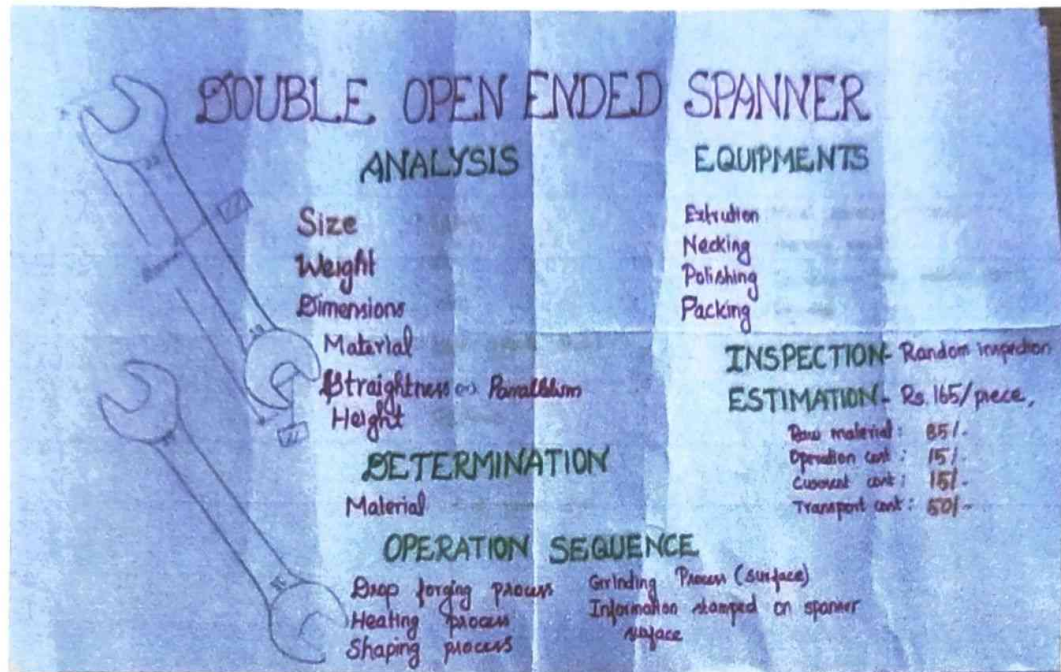
Total Processing Time = 200 sec

STEP 5: Inspection

Method: First Random Inspection

STEP 6: Estimate

Manufacturing cost	2000
Raw material cost	1000
Labour cost	400
Overhead cost	400
Transport cost	400



Outcome:

The students gain knowledge in interpreting the drawings, selecting the materials, equipments and tools with various process planning strategies; they will apply in industries and their life.

The students understand the difficulties while planning and how to prepare documents of process planning economically by quality assurance methods and process parameter calculation.

[Signature]
Staff In charge

[Signature]
Hod\Mech



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INNOVATION

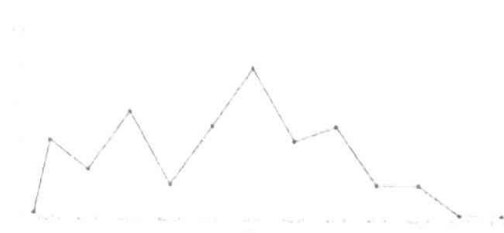
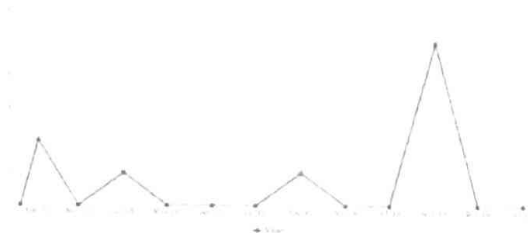
Name of the course instructor : Mr.S.Muthu Natarajan
Subject Name : Computer Integrated Manufacturing Systems
Subject Code : ME6703
Academic Year : 2019 - 2020
Class & sec : IVth Year Mech-B
Tools used : Slideshare

Objective:

To enhance the knowledge in the current trending topics from manufacturing industries integrated with the help of computers.

Proof (Photo\document\any other)

The unit wise notes for Computer Integrated Manufacturing Systems subject were uploaded in the slide share for student's easy retrieval.



Outcome:

The students have gone through the slide share website and utilized the presentations to a greater extent while preparing for the examinations. The analytics of the same has been attached herewith.


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INNOVATION

Name of the course instructor : Mr.A.Sankara Narayana Murthy & Mr.T.Ramesh
Subject Name : Heat and Mass Transfer
Subject Code : ME 8096
Academic Year : 2019 - 2020
Class & sec : III (A& B)
Tool Used : Google Quiz

Objective:

- Pre-Requisite to be conducted through ICT tool to analyze the whole class basic knowledge Strength.
- To summaries the data and analyze statistical data effectively.

Proof (Photo\document\any other) Conducted Date: 02.01.2019

Previous 30 days	Owned by me	Last opened by me	Grid	Sort	Folder
Heat and Mass Transfer Pre Assessment	me	Jan 6, 2020			
O.D.J.P Pre assessment Questions	me	Dec 27, 2019			
Earlier					
National Level Technical Contest CHISEL 19	me	Dec 14, 2019			
Registration for StepsIn Technologies	me	Dec 4, 2019			
Technical Training Feedback form	me	Nov 18, 2019			
Alumni data base	me	Nov 2, 2019			
Looking beyond	me	Aug 31, 2019			
Pathway to Pinnacle Feed back	me	Jul 31, 2019			

GDJP Pre assesment Questions

Form description

Name *

Short answer text

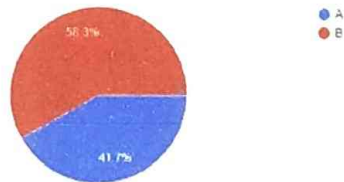
Roll Number *

Short answer text

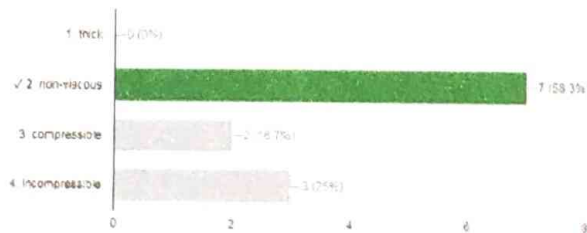
Section *

Waiting for docs.google.com...

12 responses



If there is no frictional force between layers of fluid, then it is known as
7 / 12 correct responses



Outcome:

- The whole class basic strength was analyzed from the result data obtained.
- The result Excel sheet can be directly obtained from the tool used which minimize the analyzing time and provide reliable statistical data.

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INNOVATION

Name of the course instructor : Mr.A.Sankara Narayana Murthy & Mr.T.Ramesh
Subject Name : Heat and Mass Transfer
Subject Code : ME 8693
Academic Year : 2019 - 2020
Class & sec : III (A& B)
Tool Used : Google Quiz

Objective:

- Pre-Requisite to be conducted through ICT tool to analyze the whole class basic knowledge Strength.
- To summaries the data and analyze statistical data effectively.

Proof (Photo\document\any other) Conducted Date: 02.01.2019

Previous 30 days	Owned by me	Last opened by me			
Heat and Mass Transfer Pre Assesment	me	Jan 6, 2020			⋮
GDJP Pre assesment Questions	me	Dec 27, 2019			⋮
Earlier					
National Level Technical Contest CHISEL 19	me	Dec 14, 2019			⋮
Registration for StepsIn Technologies	me	Dec 4, 2019			⋮
Technical Training Feedback form	me	Nov 18, 2019			⋮
Alumni data base	me	Nov 2, 2019			⋮
Looking beyond	me	Aug 31, 2019			⋮
Pathway to Pinnacle Feed back	me	Jul 31, 2019			⋮

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INNOVATION

Name of the course instructor : S.David Blessley

Subject Name :Hydraulics and Pneumatics

Subject Code : ME8694

Academic Year : 2019-2020

Class & sec : III A

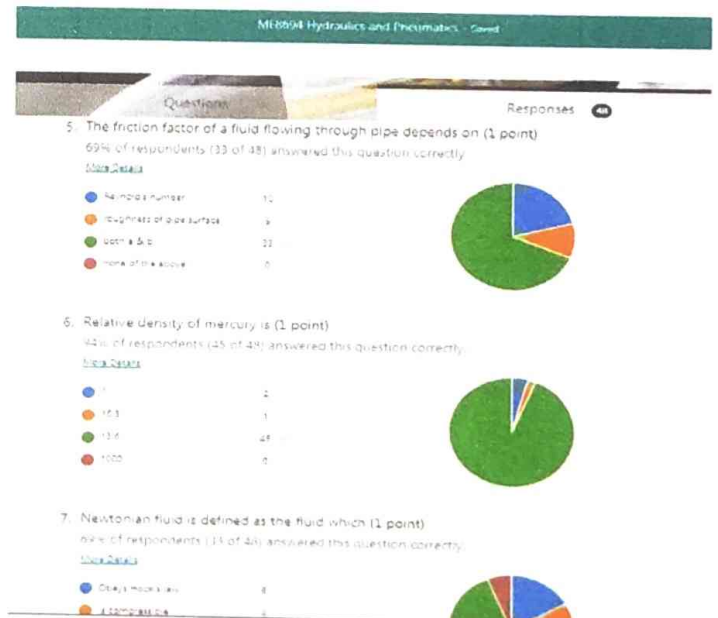
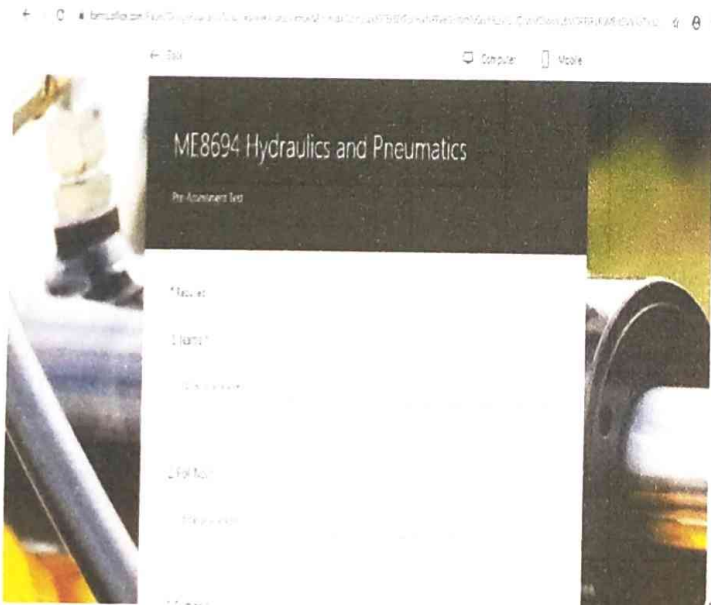
Tool used : office form

Objective:To use a modern (ICT) tool

1) To enhance effective participation by conducting quiz in digital form

Proof

Conducted Date: 16.12.19



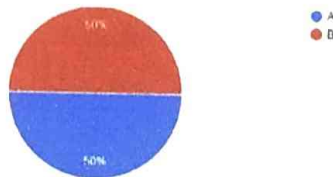
Heat and Mass Transfer Pre Assesment

Form description

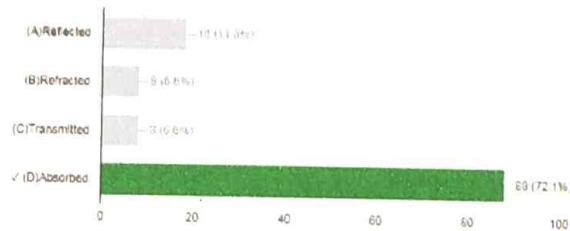
Email address *
Valid email address
This form is collecting email addresses. [Change settings](#)

Roll Number *
Short answer text

Name *



1. All radiations in the black body are
88 / 122 correct responses



Outcome:

- The whole class basic strength was analyzed from the result data obtained.
- The result Excel sheet can be directly obtained from the tool used which minimize the analyzing time and provide reliable statistical data.


STAFF IN CHARGE


HODMECH

Outcome:

- 1) Online quizzes help students to eagerly involve themselves in learning
- 2) Multiple choices help them to recall the concepts which they have studied earlier


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ACTIVITY BASED LEARNING

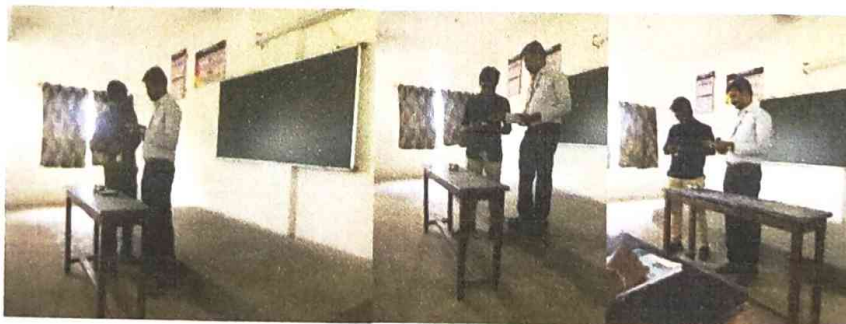
Name of the course instructor : B.PRABHU
Subject Name : Thermal Engineering - I
Subject Code : ME 8493
Academic Year : 2019-2020 (EVEN Sem)
Class & sec : II - A
Tool used : QUIZ through Fish Bowl

Description:

In Unit-III (Internal Combustion Engine and combustion) of the subject ME 8493 Thermal Engineering - I, there is a portion which explains the components, working and combustion phenomena for SI and CI Engines. Students are explained with these concepts by giving lecturing through video animation and power point presentation. For better understanding and easy remembering of the contents, students are grouped into four teams for participating the QUIZ through Fish Bowl, in which the glossary questions in IC engine are prepared and they are asked to take the lot at a time. Through which the students will be able to remember and recall the concepts of IC engine in detail.

Proof (Photo\document\any other)

Conducted Date: 13/01/2020



Outcome:

1. The students will be able to recall the concepts in IC engine.
2. The students are motivated among the group members by giving complimentary gifts.



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ACTIVITY BASED LEARNING

Name of the course instructor : B.PRABHU
Subject Name : Process Planning and Cost Estimation
Subject Code : ME 6005
Academic Year : 2019-2020 (ODD Sem)
Class & sec : IV - A
Tool used : Activity based learning through ROLE PLAY

Description:

In Unit-I (Introduction to Process Planning) of the subject ME6005 Process Planning and Cost Estimation, there is a portion which explains the process planning objectives and its documentation. Students are explained with these concepts by giving the real case studies in the apparels production industries. For better understanding and easy remembering of the instructions and their functions, students are asked to form a mirrored industrial functional group to make process planning for manufacturing the PEN through ROLE PLAY in which the students will be able to remember and recall the concepts of process planning in detail.

Proof (Photo\document\any other)Conducted Date:



Outcome:

1. The students will be able to describe the functions of the process planning and their interface in the production industry.
2. The students will be able to remember the concepts thoroughly in detail



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INNOVATION

Name of the course instructor : Dr.S.Senthil
Subject Name : Total Quality Management
Subject Code : GE6757
Academic Year : 2019-20(Even)
Class & sec : III B

Objective:

To study the current situation of industry and to implement the suitable quality tools successfully and to eliminate the problems faced in an industry.

Field Visit

Students are taken for visit to M/S SP containers, Virudhunagar.

Proof (Photo\document\any other)Conducted Date:23/07/2019



Outcome:

Through this activity the students are made to understand the possible ways of quality control with an practical exposure which have given them an insight knowledge.

This encouraged group participation and utilizes group knowledge of the process.


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ACTIVITY BASED LEARNING

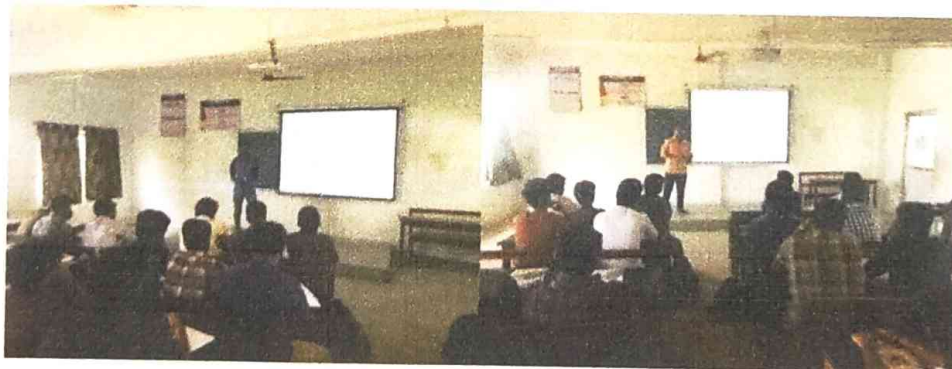
Name of the course instructor : B.PRABHU
Subject Name : Thermal Engineering - I
Subject Code : ME 8493
Academic Year : 2019-2020 (EVEN Sem)
Class & sec : II - A
Tool used : Students Seminar

Description:

In Unit-IV (Internal Combustion Engine performance and systems) of the subject ME 8493 Thermal Engineering - I, there is a portion which explains the fundamental systems in IC engine. Lateral entry students are motivated to take the seminar with video animation in the topic Lubrication system, Ignition system and Cooling system. This activity boosts up their confidence in grasping the technical hints and presentation skills.

Proof (Photo\document\any other)

Conducted Date: 14/01/2020



Outcome:

1. The students are motivated among the group members.
2. The confidence level will be enhanced through their stage presentation.



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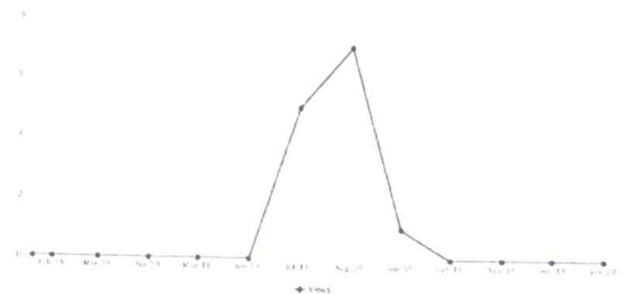
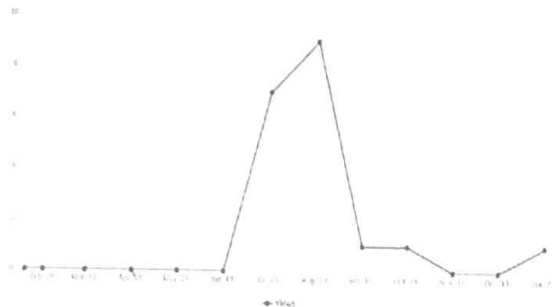
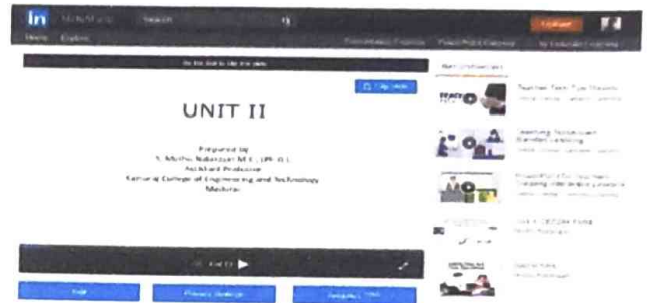
INNOVATION

Name of the course instructor : Mr.P.Sivasubramanian
Subject Name : Fluid Mechanics
Subject Code : CE8394
Academic Year : 2019 - 2020
Class & sec : IInd Year Mech-A

Objective:

The unit wise notes for the fluid mechanics subject was prepare in power point presentations and the same was uploaded in the slide share for student's easy retrieval

Proof (Photo\document\any other)



Outcome:

The students have gone through the slide share website and utilized the presentations to a greater extent while preparing for the examinations. The analytics of the same has been attached herewith.

Staff In charge

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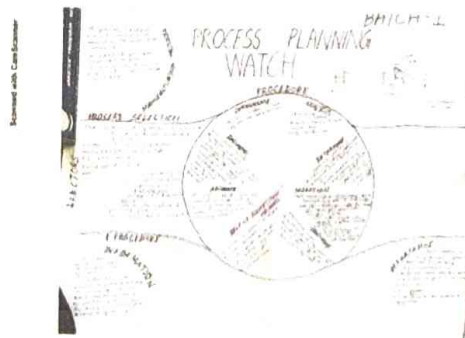
ACTIVITY BASED LEARNING

Name of the course instructor	: B.PRABHU
Subject Name	: Process Planning and Cost Estimation
Subject Code	: ME 6005
Academic Year	: 2019-2020 (ODD Sem)
Class & sec	: IV - A
Tool Used	: Activity Based Learning through CHART WORK

Description:

In Unit-II (Process Planning parameters) of the subject ME6005 Process Planning and Cost Estimation, there is a portion which explains the process planning parameters, consideration of QC methods and documentation. Students are explained with these concepts by giving the real case time case studies. For better understanding and easy remembering of the instructions and their functions, students are asked to form a batch to prepare the charts describing the overall process planning for any kind of production processes in which the students will be able to remember and recall the concepts of process planning in detail.

Proof (Photo\document\any other)Conducted Date:



Outcome:

1. The students will be able to describe the functions of the process planning and their interface in the production industry.
2. The students will be able to remember the concepts thoroughly in detail



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INNOVATION

Name of the course instructor : Chidambara Kumaran S
Subject Name : Manufacturing Technology I
Subject Code : ME8351
Academic Year : 2019 - 2020 (Odd Semester)
Class & sec : II & B Section

Objective: To use a modern (ICT) tool which could help carry out the following

- 1) To hand out class notes (digital form) topic wise.
- 2) Distribute class assignment questions in digital form.
- 3) Conduct online quizzes
- 4) Integrate chat/voice calling and video conferencing

Proof (Photo\document\any other) Conducted Date:

Tool used is Microsoft Teams

Search for or type a command

Teams

General Posts Files Class Notebook Assignments Grades File | MEE351_Quiz1... 3 more +

File Home Insert Draw View Help Class Notebook Open in browser

MEECH_18_22 Batch Notebook

Welcome Green Sand Moulding

Collaboration Space Contd. Green Sand Mould

Content Library Contd. Green Sand Mould

Using the Content Library Contd. Green Sand Mould

UNIT 1 Types of Moulding Sand

Unit 2 Sand Properties

Unit 3 Sand Testing

Unit 4 Contd. Sand Testing

Unit 5 Types of Patterns

MEE351_MT II_Unit 1 Contd. Types of Patterns

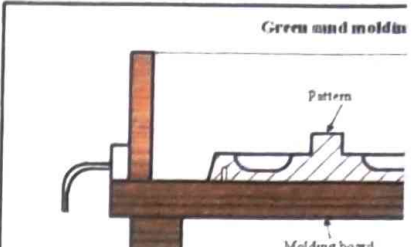
ABEL PRIVANS Contd. Types of Patterns

ABISON GURUGEE M Pattern Allowances

ABHY KRISHNA C Contd. Pattern Allowances

+ Section + Page

Green sand moulding



Pattern

Molding board

- > Place molding board on table. Keep drag (lower half of mold)
- > Place one half of pattern on the board.
- > Fill sand around pattern using riddle and compact it
- > Fill drag, ram and strike off (level) the sand

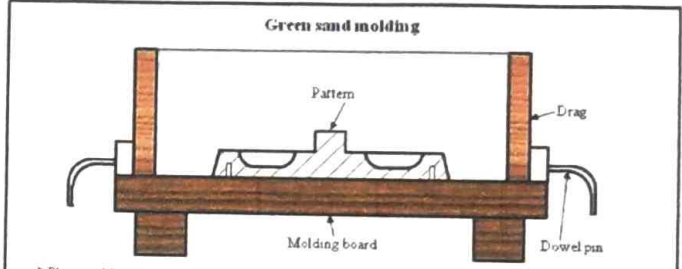
Search for or type a command

Teams

General Posts Files Class Notebook Assignments Grades File | MEE351_Quiz1... 3 more +

File Home Insert Draw View Help Class Notebook Open in browser

Green sand molding



Pattern

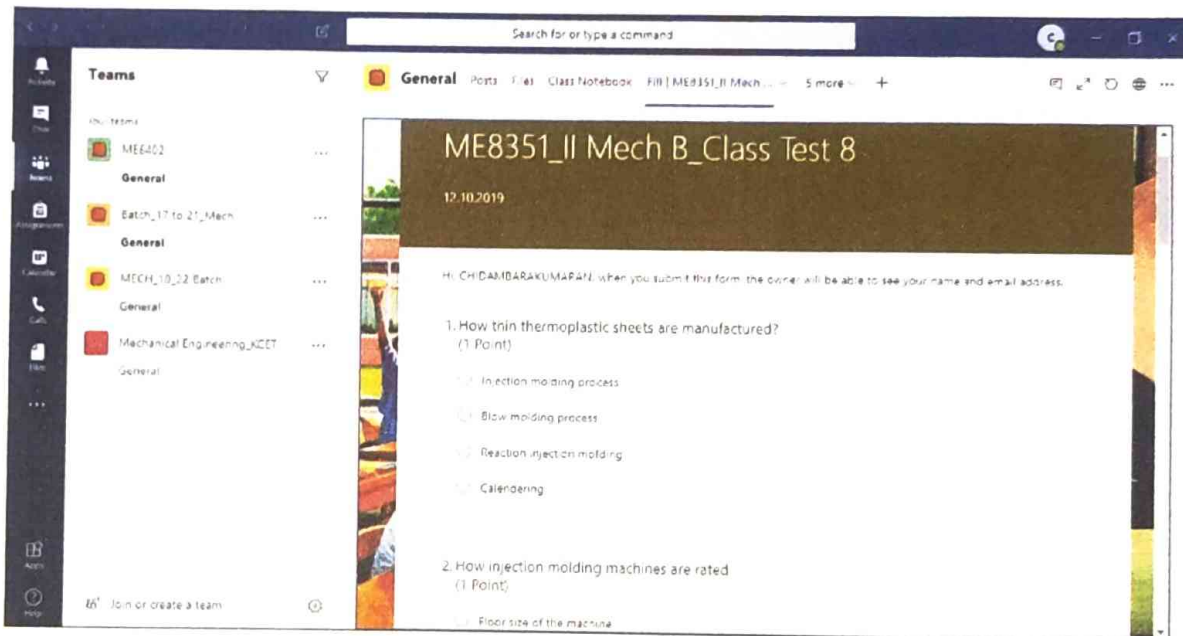
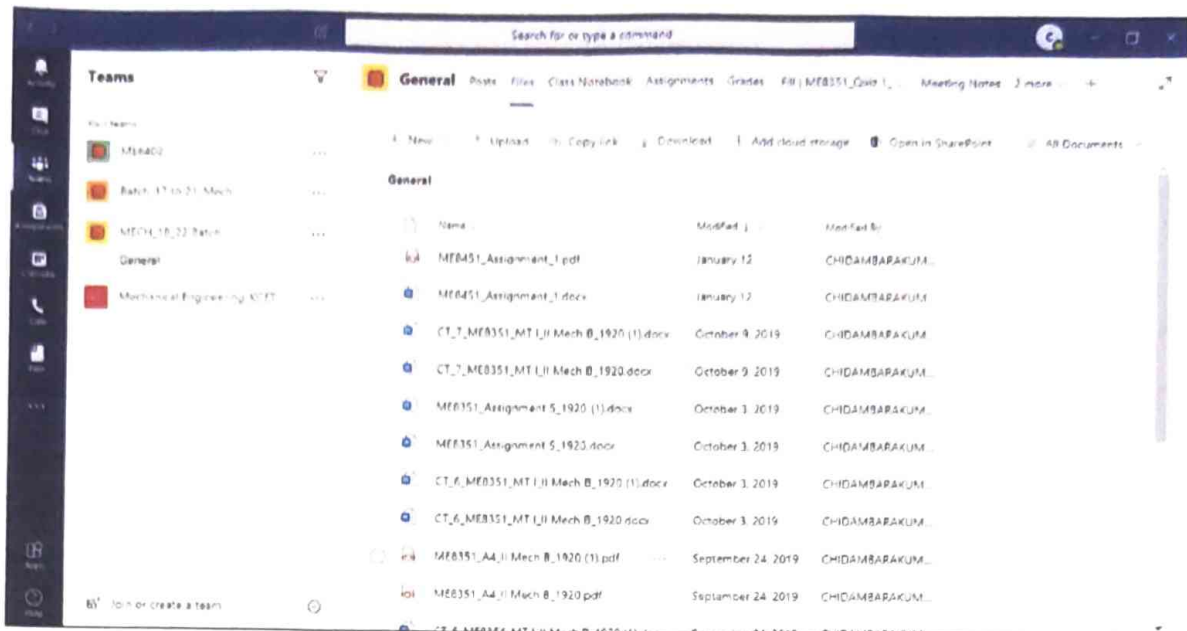
Drag

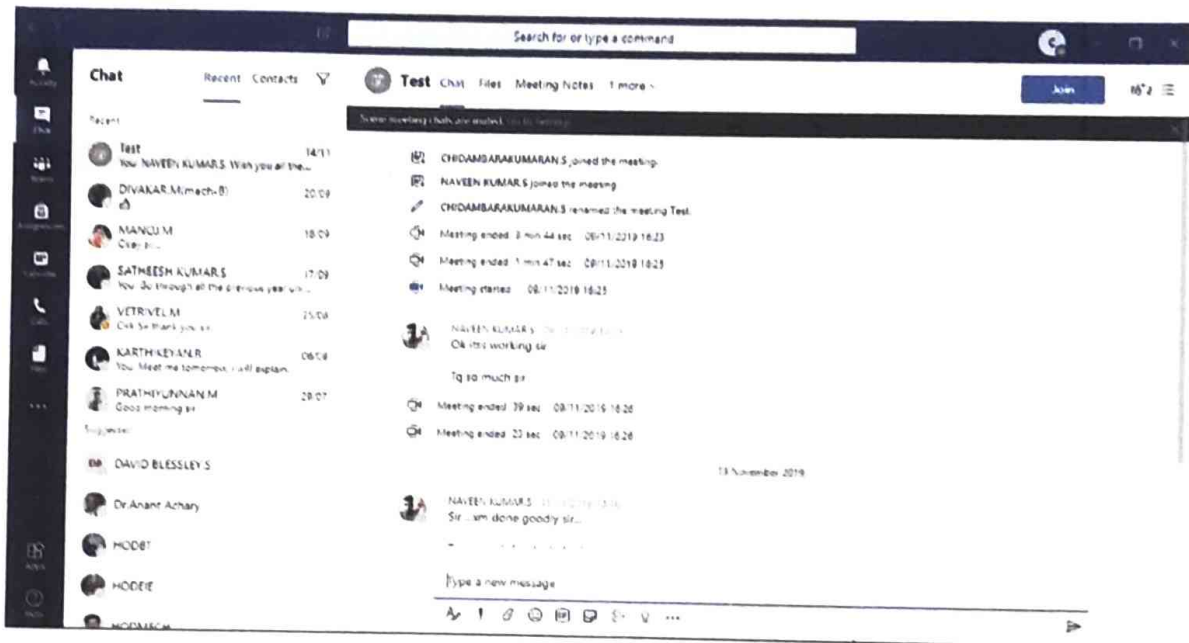
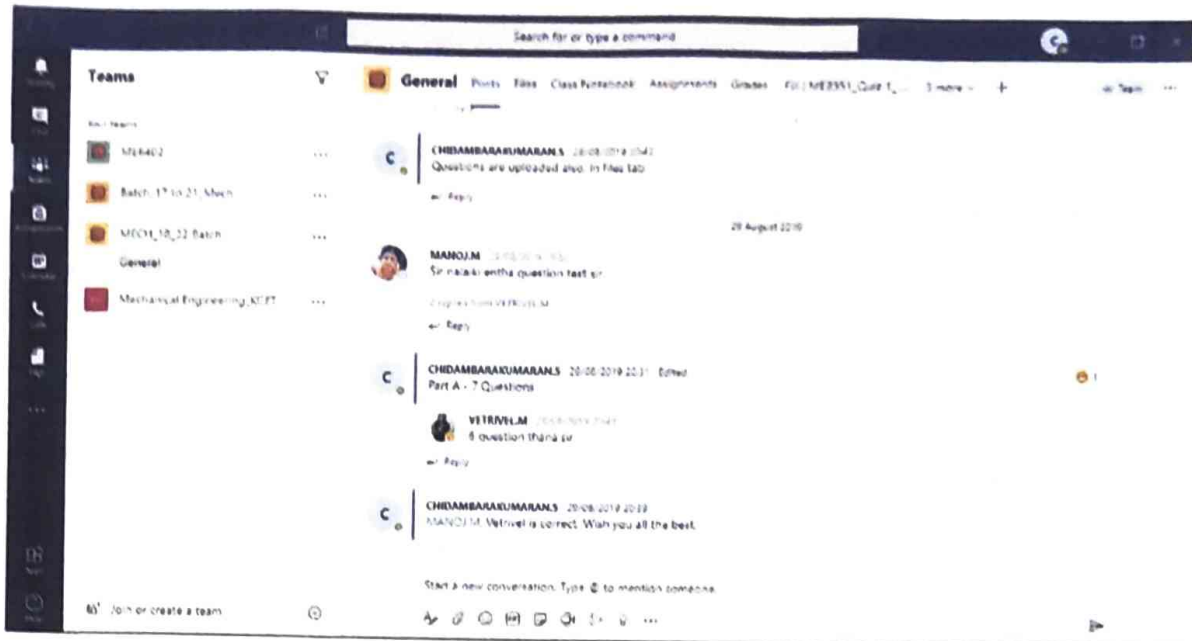
Molding board

Dowel pin

- > Place molding board on table. Keep drag (lower half of mold) upside down, on top of board
- > Place one half of pattern on the board
- > Fill sand around pattern using riddle and compact it
- > Fill drag, ram and strike off (level) the sand

Drag





Outcome:

- 1) Distribution of class notes helps students to use his mobile/desktop to study. Helps blended learning.
- 2) All the questions are available readymade at student desktop.
- 3) Online quizzes help student understand better the concepts and practice learning during leisure hours.

4) Chat/voice calling and video conferencing helps doubt clarification, collaborative learning.



Staff In charge



Hod/Mech



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INNOVATION

Name of the course instructor : Chidambara Kumaran S
Subject Name : Manufacturing Technology II
Subject Code : ME8341
Academic Year : 2019 - 2020 (Even Semester)
Class & sec : II & B Section

Objective: To use a modern (ICT) tool which could help carry out the following

- 1) To hand out class notes (digital form) topic wise.
- 2) Distribute class assignment questions in digital form.
- 3) Conduct online quizzes
- 4) Integrate chat/voice calling and video conferencing

Proof (Photo\document\any other) Conducted Date:

Tool used is **Microsoft Teams**

Search for or type a command

Teams

ME6402

General

Batch_17 to 21_Mech

MECH_18_22 Batch

Mechanical Engineering_KCET

Join or create a team

General

Posts Files Class Notebook Assignments Grades Fill|ME6351_Quiz 1_... 3 more

File Home Insert Draw View Help Open in browser

Calibri Light 20 B I U

MECH_18_22 Batch Notebook

Welcome

General Introduction

Collaboration Space

Theory of Metal Cutting

Content Library

Single Point Cutting Tool

Using the Content Li...

Tool Nomenclature, Sin...

Unit_1

Types of Chips

Unit_2

Orthogonal & Oblique ...

Unit_3

Shear Angle

Unit_4

Velocity Relation & She...

Merchant's Theory

Unit_5

Merchant's Circle Diagr...

ME6351_MT II_Unit 1

Merchant's Circle Diagr...

ABEL PRYANS

Thermal Aspects in Met...

ABISON GURUGEE M

Tool Wear

ABHIRAM S

Cutting Tool Material

+ Section

+ Page

Velocity Relation & Shear Strain

12 February 2020 21:09

Velocity relationship in metal cutting

Velocity relationship in metal cutting

V_c - Cutting velocity
 V_s - Shear velocity

$$\frac{V_s}{\sin(90 - \alpha)} = \frac{V_c}{\sin \phi} = \frac{V}{\sin(90 - (\phi - \alpha))}$$

Search for or type a command

Teams

ME6402

General

Batch_17 to 21_Mech

MECH_18_22 Batch

Mechanical Engineering_KCET

Join or create a team

General

Posts Files Class Notebook Assignments Grades Fill|ME6351_Quiz 1_... 3 more

File Home Insert Draw View Help Open in browser

Calibri Light 20 B I U

Velocity Relation & Shear Strain

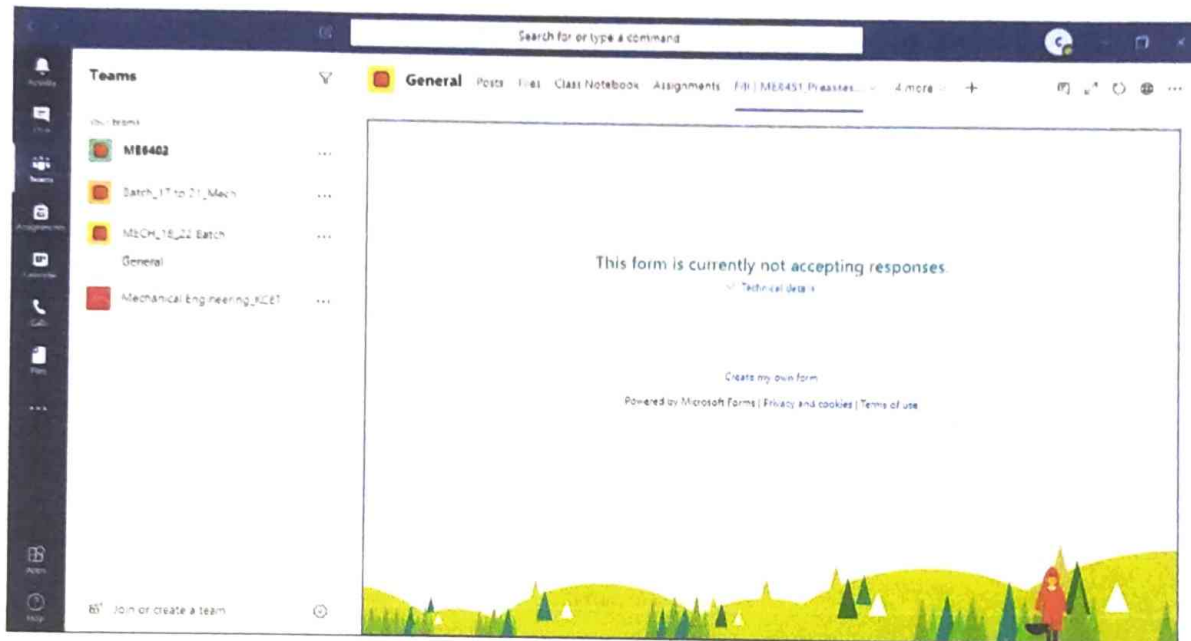
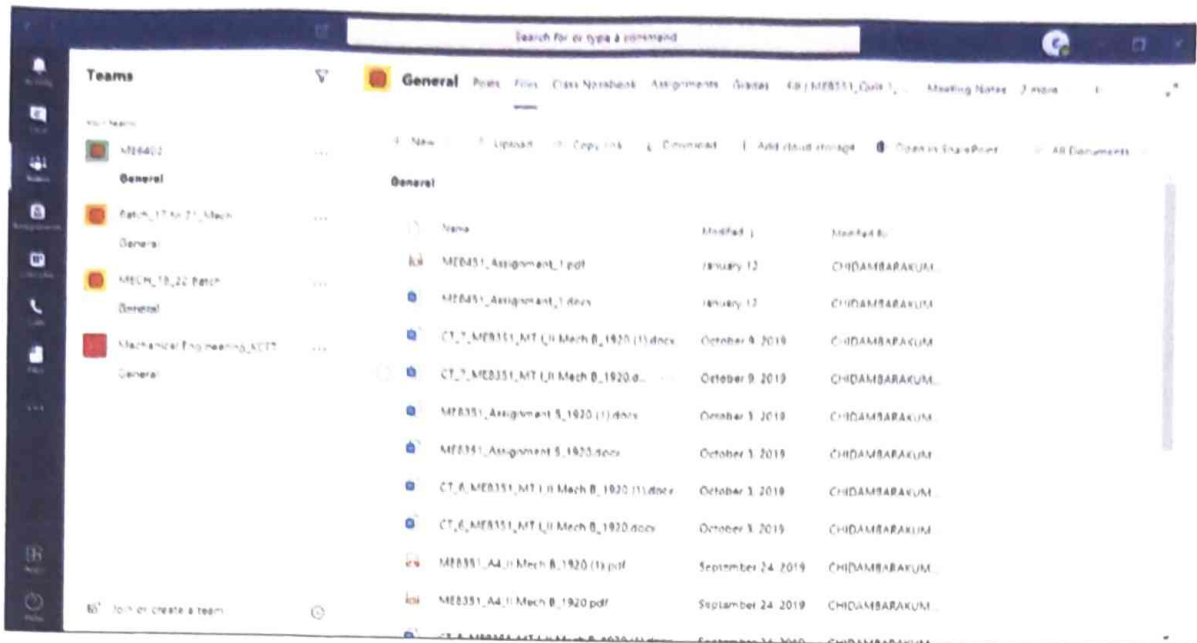
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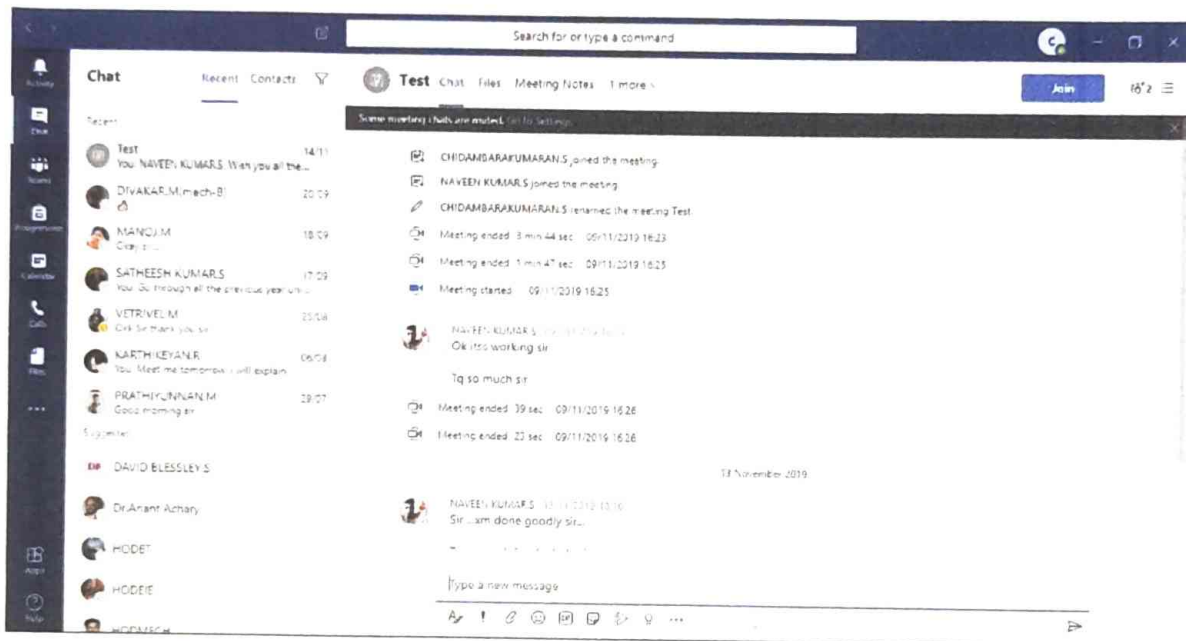
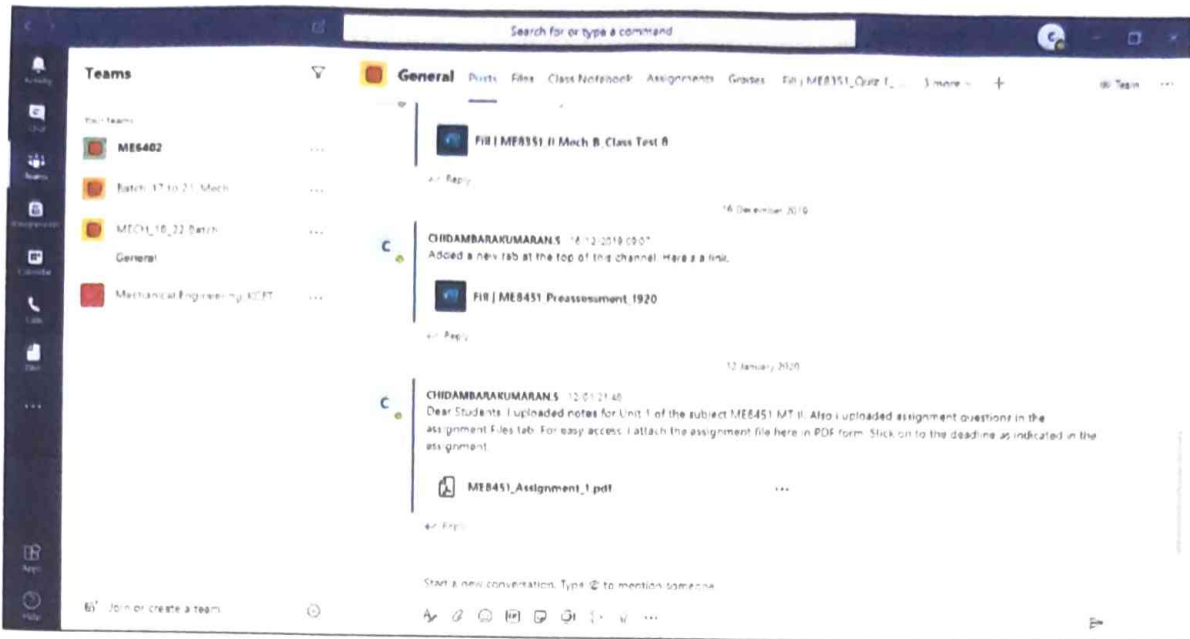
Velocity relationship in metal cutting

Velocity relationship in metal cutting

V - Cutting velocity
 V_c - Chip velocity
 V_s - Shear velocity

$$\frac{V_s}{\sin(90 - \alpha)} = \frac{V_c}{\sin \phi} = \frac{V}{\sin(90 - (\phi - \alpha))}$$





Outcome:

- 1) Distribution of class notes helps students to use his mobile/desktop to study. Helps blended learning.
- 2) All the questions are available readymade at student desktop.
- 3) Online quizzes help student understand better the concepts and practice learning during leisure hours.

4) Chat/voice calling and video conferencing helps doubt clarification, collaborative learning.



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INNOVATION

Name of the course instructor	: Dr.S.Senthil
Subject Name	: Design of Transmission Systems
Subject Code	: ME8651
Academic Year	: 2019-20(Even)
Class & sec	: III B

Objective:

To inculcate collaborate learning behavior of students

Fishbone Diagram

Students are divided into teams. A design problem is given for them. They have to draw the cause and effect diagram for the problem assigned to them. Finally the team leader present the cause and effect diagram. It can be used to structure a brainstorming session

Materials needed: marking pens and whiteboard.

Proof (Photo\document\any other)Conducted Date:09/01/2020



Outcome:

It immediately sorts ideas into useful categories. Students can take this to any real complex problems.

This helps the students to identify, sort, and display possible causes of a design problem.

This encouraged group participation and utilizes group knowledge of the process.


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INNOVATION

Name of the course instructor : P.Senthamaraikannan
Subject Name : Engineering Metallurg
Subject Code : ME8491
Academic Year : 2019-2020
Class & sec : II-B

Objective:

To teach the various destructive testing methods of materials at strength of materials laboratory in order to improve the understanding of the student

Proof (Photo\document\any other):



Outcome: Students understood the various testing methods


Staff In charge


Subject expert


Hod\Mech

x



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INNOVATION

Name of the course instructor : P.Senthamaraikannan
 Subject Name : Total Quality Management
 Subject Code : GE 6757
 Academic Year : 2019-2020
 Class & sec : IV-A

Objective:

To teach the matrix diagram to the students in a interesting way

Proof (Photo\document\any other):

MATRIX DIAGRAM - MOBILE BRANDS

CONFIGURATION	OPPO	MI	APPLE	HTC	LEAGUE	ASUS	REDMI	TECNO	INFINITON	REALM	ONEPLUS	PIXEL
COST	7	7	6	6	7	7	5	7				
CAMERA	7	9	9	9	9	9	7	10				
RAM,ROM	9	8	7	8	10	8	6	7	8			
PROCESSOR	8	8	7	7	8	8	7	7				
VR SUPPORT		5		9	7	7	7	0				
OPERATING SYSTEM	9	9	10	9	10	8	7	8				
WEIGHT	8	7	8	8	8	7	5	7				
USER'S REVIEW	9	8	8	7	9	7	8	7				
OVERALL SCORE	78	75	73	78	90	74	64	67	60	70		
RANK	2	3	5	2	1	4	8	7	9	6		

BEST PHONE



Outcome: Students understand the practical usage of matrix diagram in day to day

Life as well as industry


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INNOVATION

Name of the course instructor : Mr.R.Sakthivel Murugan
Subject Name : Engineering Graphics
Subject Code : GE8152
Academic Year : ODD (2019 – 2020)
Class & sec : I -Year Bio Technology
1. Tool Used : Question Bank Shuffle Competition (Group Activity)

Objective:

- To make students to solve all the problems in the question bank with team building.
- Group to be created which should consists of bright, neutral and weak students.
- Make the students sportive by conducting this activity as competition.
- To encourage students, open to discuss problems, refer handouts or books among team members.
- Evaluation is based on the performance of team not on individual.
- Winner team members should be awarded by bonus assignment 5 marks.

Proof (Photo\document\any other)

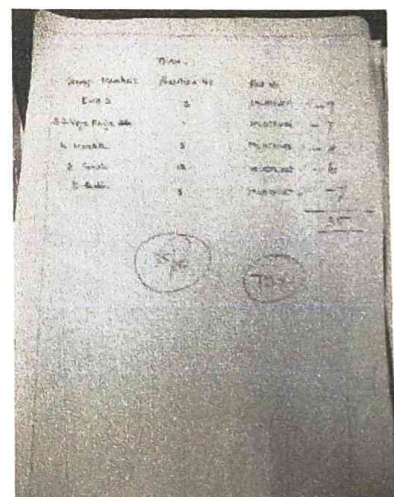
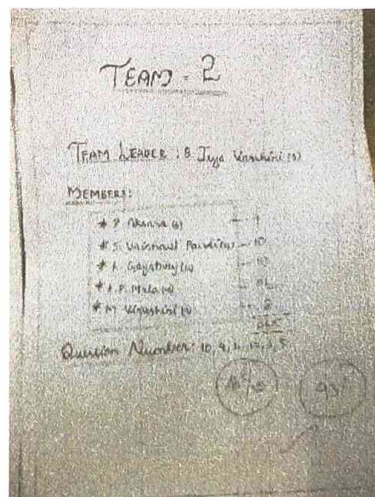
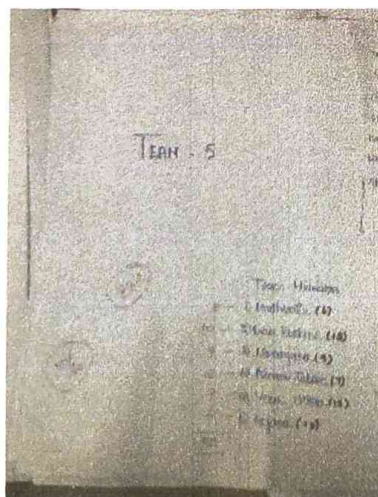
Conducted Date: 20.10.2019





Group Activity Results Engineering Graphics 21.10.2019

TEAM 1	1st	2nd			
1. Anshu - (2)	1. Anshu - (5)	1. Anshu - (5)	1. Anshu - (5)	1. Anshu - (5)	1. Anshu - (5)
2. Anshu - (1)	2. Anshu - (4)	2. Anshu - (4)	2. Anshu - (4)	2. Anshu - (4)	2. Anshu - (4)
3. Anshu - (5)	3. Anshu - (3)	3. Anshu - (3)	3. Anshu - (3)	3. Anshu - (3)	3. Anshu - (3)
4. Anshu - (12)	4. Anshu - (10)	4. Anshu - (10)	4. Anshu - (10)	4. Anshu - (10)	4. Anshu - (10)
5. Anshu - (3)	5. Anshu - (7)	5. Anshu - (7)	5. Anshu - (7)	5. Anshu - (7)	5. Anshu - (7)



Outcome:

- The whole class participated effectively and solved all the problems in the question bank which consists of 15 latest university problems within 1 hour. Later, they shared the problems among themselves in softcopy via whatsapp group.
- While the students in any team had doubt, the team leader clarified the doubt with the staff in charge in the classroom itself and delivered it to the other team members. This will improve the leadership and communication skills.
- Slow learners also feel comfortable in asking doubts with team leaders and solved problems in the right path.

2. Tool Used

: Model Making

Objective:

- To make students to create engineering graphics models individually
- To learn the basic constraints and geometric properties of the solids.
- Make this model as a teaching and learning tool for the unit 3 & 4 in R2017 syllabus.

Proof (Photo\document\any other)

Conducted Date: 18.09.2019



Outcome:

- The whole class participated effectively and created their allotted model in time.
- Learnt all the basic geometric constraints for all the solids.
- Kept the models in the class room itself and used it as learning tool throughout the unit 3 & 4.


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INNOVATION

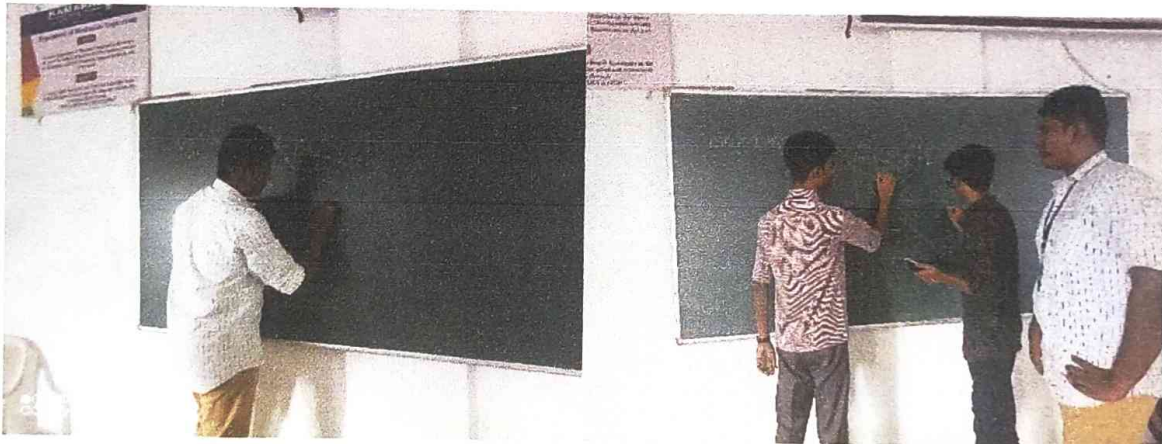
Name of the course instructor : Dr.P.Narayanasamy
Subject Name : Manufacturing Technology-II
Subject Code : ME 8451
Academic Year : 2019-20 (Even)
Class & sec : II MECH & A Sec

Objective 1:

The objective of this activity “**Pictionary**” is to identification of parts in an easy way.

Proof (Photo\document\any other)

Conducted Date: 20.12.2019



Outcome 1:

- ✓ The students grabbed the diagram and parts in a better way. Also the students remember the concept

Objective 2:

The objective of this activity “live class room” is to learn the construction and working of various machines.

Proof (Photo\document\any other)

Conducted Date: 14.01.2020



Outcome 2:

- ✓ The students grabbed the concepts in a live manner.

P. Naly
Staff In charge

S. S. Srinivasan
HoD/MECH

INNOVATION

Name of the course instructor	: P.Sivasubramanian
Subject Name	: Powerplant Engineering
Subject Code	: ME6701
Academic Year	: 2019-2020 ODD
Class & sec	: IV & A
Activity based learning	: Model Preparation

Description:

In Unit-II (Diesel powerplant) of the subject ME6701 Powerplant Engineering, there is a portion which explains the working principle of diesel powerplant. For better understanding and easy remembering of the instructions and their functions, students are asked to form a batch to prepare the model which describes the functioning of diesel powerplant and their components in which the students will be able to remember and recall the concepts in detail.

Proof



Outcome:

- Students will be able to demonstrate the working principle of diesel powerplant and their various circuits.



Staff In charge



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INNOVATION

Name of the course instructor : T.SURESH
Subject Name : Powerplant Engineering
Subject Code : ME6701
Academic Year : 2019-2020 ODD
Class & sec : IV & B
Activity based learning : Model preparation

Description:

In Unit-III (Nuclear powerplant) of the subject ME6701 Powerplant Engineering, there is a portion which explains the working principle of nuclear powerplant. For better understanding and easy remembering of the instructions and their functions, students are asked to form a batch to prepare the model which describes the functioning of nuclear powerplant and their components in which the students will be able to remember and recall the concepts in detail.

Proof



Outcome:

- Students will be able to demonstrate the working principle of nuclear powerplant and their various circuits.

T. Anjesh
Staff In charge

S. S. Srinivasan
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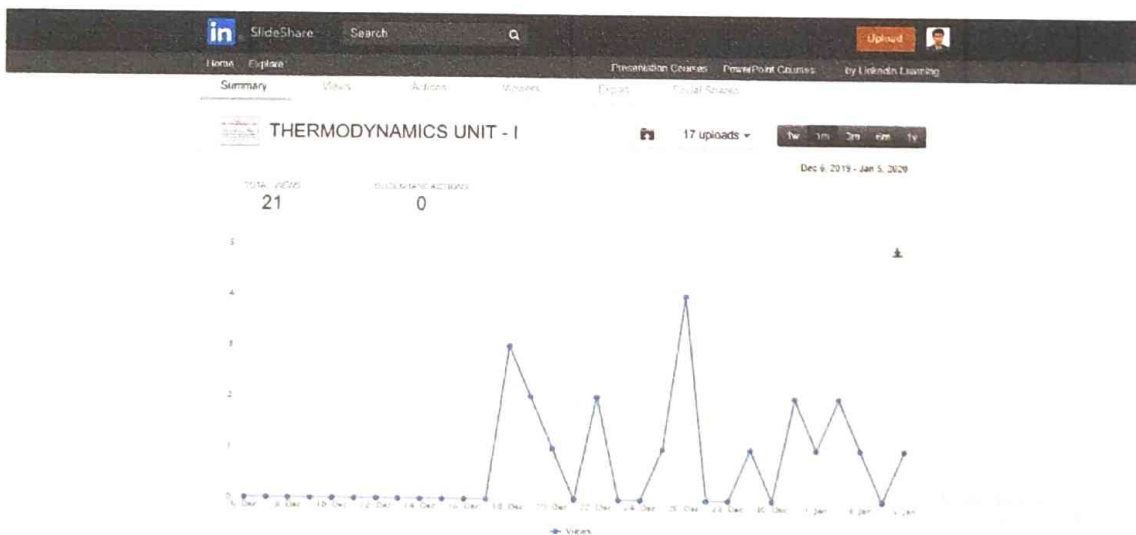
INNOVATION

Name of the course instructor : B.PRABHU &T.SURESH
Subject Name : Engineering Thermodynamics
Subject Code : ME8391
Academic Year : 2019 - 2020
Class & sec : II A & B
Tool used : Slide Share

Objective:

The content of the subject ME 8391 - Engineering thermodynamics is uploaded in slideshare and the link is shared for students life long learning.

Proof



in SlideShare Search Upload

Home Explore Presentation Courses PowerPoint Courses by LinkedIn Learning

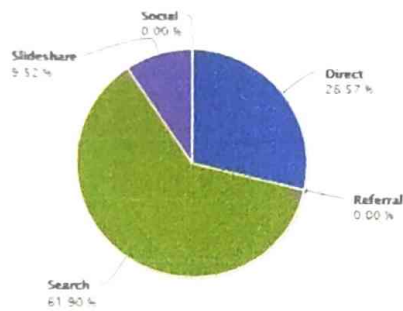
Top sources

URL	Views
www.google.com	12
direct	6
www.slideshare.net	2
www.google.com.pk	1

Top countries

Name	Views
India	6
United States	5
Jamaica	2
Saudi Arabia	2
Iraq	1

Traffic sources



SlideShare actions

Type	No.
♥ Favorites	0
💬 Comments	0
⬇ Downloads	0
✉ Email shares	0

in SlideShare Search Upload

Home Explore Presentation Courses PowerPoint Courses by LinkedIn Learning

Summary Views Actions Views Export Social Shares



Thermodynamics - Unit - II

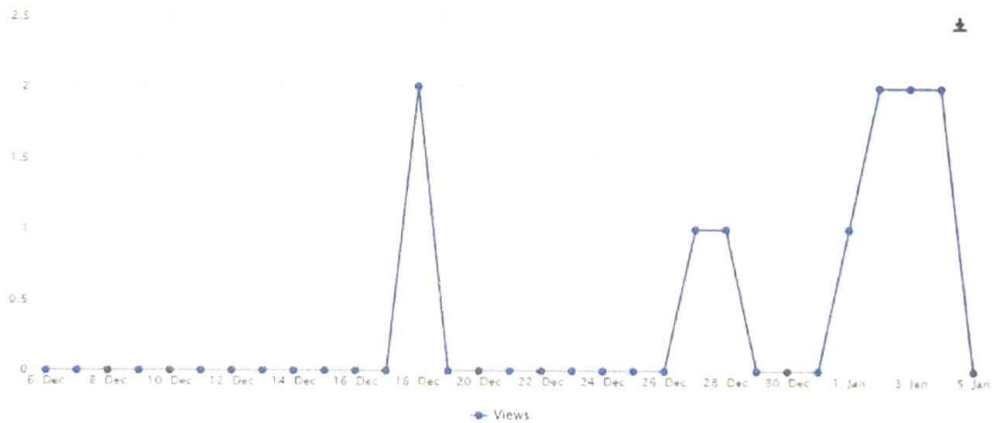
17 uploads

1w 1m 3m 6m 1y

Dec 6, 2019 - Jan 5, 2020

TOTAL VIEWS
11

SLIDESHARE ACTIONS
0



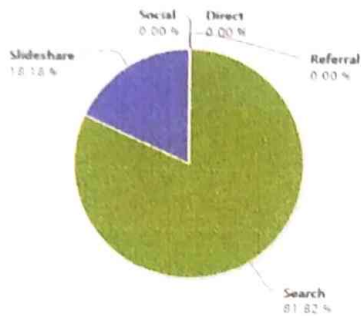
Top sources

URL	Views
www.google.com	0
www.slideshare.net	2
www.google.com.pk	1

Top countries

Name	Views
India	2
Pakistan	2
Malaysia	1
Moldova, Republic of	1

Traffic sources



SlideShare actions

Type	No.
♥ Favorites	0
💬 Comments	0
⬇ Downloads	0
✉ Email shares	0

Outcome:

The basic laws of Engineering Thermodynamics will be studied and recalled through online medium which enables their skills and knowledge.


T. Inayat
 Staff In charge


HoD\Mech

INNOVATION

Name of the course instructor	:L.Loganathan, AP/MECH
Subject Name	: Mechatronics
Subject Code	: ME6702
Academic Year	: 2019-2020
Class & sec	: III (A&B)
Tools Used	: Slide share , peer learning ,ICT (Nearpod,)

Objective:

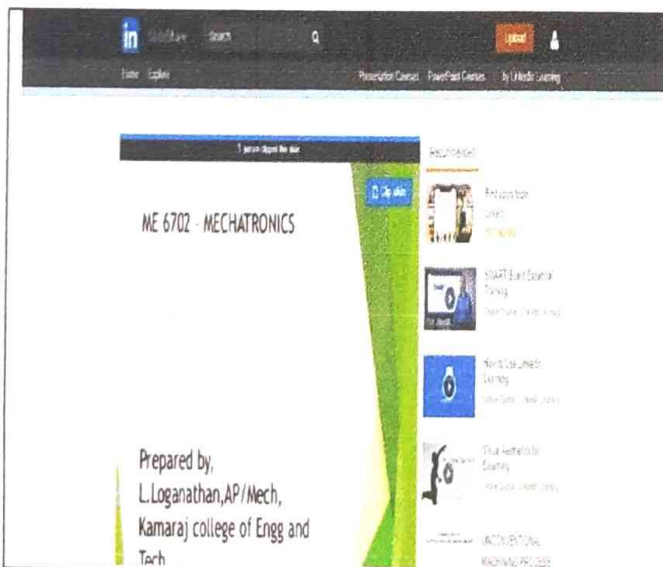
To enhance the practical knowledge and also involve the students with real time applications laboratory demonstration of mechatronics components was given in advance.

For students easy retrieval, Unit wise notes for Mechatronics subject was prepared in power point presentations and uploaded in the slide share .

To enrich the students' knowledge in mechatronics concepts ICT tool Quizizz was used.

To create a dynamic learning, Peer learning can provide a great support system among students, and the interchanging roles of teacher and learner

Proof (Photo\document\any other) Conducted:



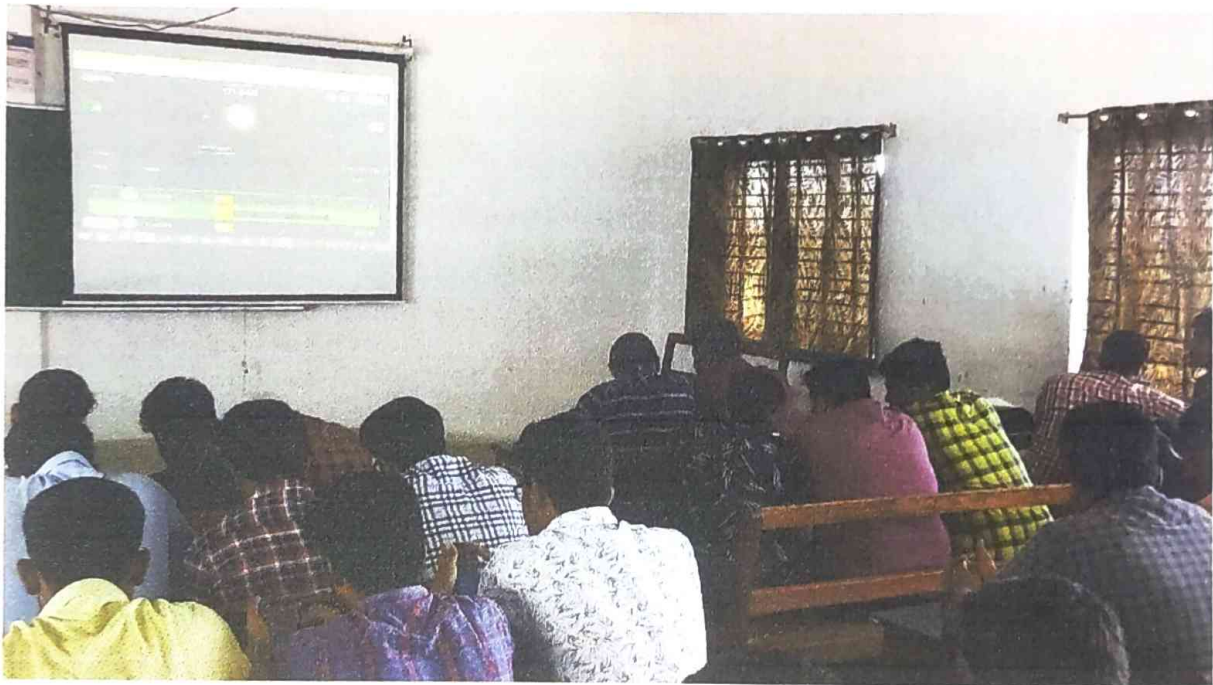
Slide Share (15/7/2019)



Lab Demonstration (14/8/2019)



Peer Enable Learning (12/9/2019)



Quizizz (20/9/2019)

Outcome:

- 1.The students will be able to describe the functions of the Mechatronic systems.
2. The students will be able to remember the concepts of mechatronics systems.
- 3.The students can be demonstrate the mechatronic components.


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INNOVATION

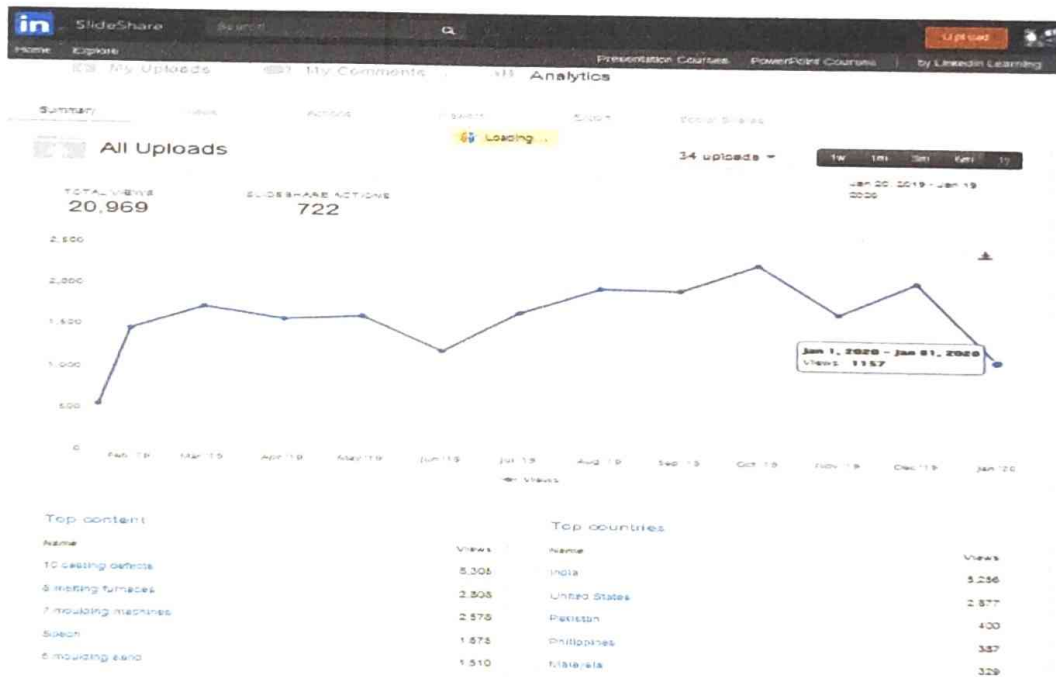
Name of the course instructor : Dr.P.Narayanasamy
Subject Name : Manufacturing Technology-I
Subject Code : ME 8351 (ODD)
Academic Year : 2019-20
Class & sec : II MECH & A Sec

Objective 1: For Unit - I

- To improve the self-learning ability of the students.
- To study beyond classroom learning

Proof (Photo\document\any other)

Conducted Date:



Outcome:

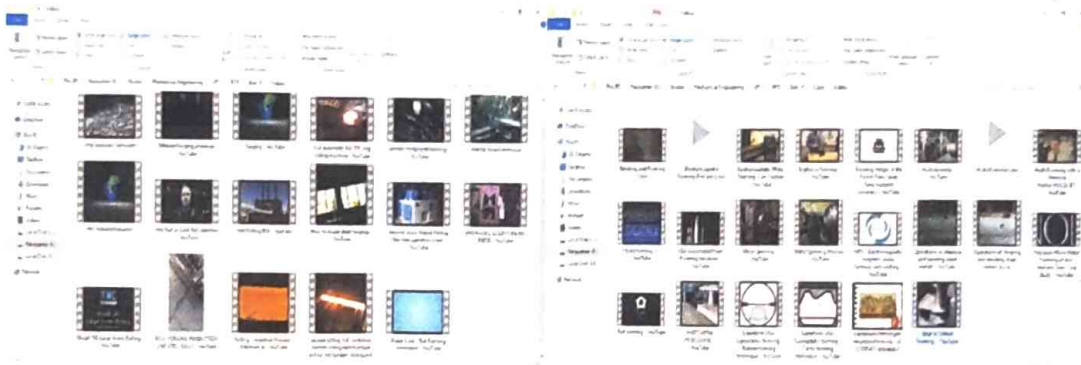
- ✓ Students are able to think about topics more deeply and make connections between what they are learning. And when students are engaged (and excited) about what they are learning, they're able to remember it better.
- ✓ To learn and retain information better. To boost the comprehension skills, and grades.
- ✓ Students are able to go beyond simply learning what their class textbooks and instructors teach them.
- ✓ By practicing self-study, they are encouraged to further explore topics they are interested in, developing stronger study skills as a result.

Objective 2: For Unit-III & IV

The objective of this activity (Video Embed Into PowerPoint) is to enrich the visualization of metal forming process.

Proof (Photo\document\any other)

Conducted Date:



Outcome 2:

- ✓ The students grabbed the concepts in a better way.

Objective 3: For Unit-V

The objective of this “activity live class room” is to learn the real time processing of plastics.

Proof (Photo\document\any other)

Conducted Date:

Outcome 3:

- ✓ The students grabbed the concepts in a live manner.

P. N. Nalgi
Staff In charge

S. S. Dhanraj
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INNOVATION

Name of the course instructor	: L.Loganathan, AP/MECH
Subject Name	: Mechatronics
Subject Code	: ME6702
Academic Year	: 2019-2020
Class & sec	: IV (A&B)

Objective:

Laboratory demonstration of mechatronics components was given in advance to enhance the practical knowledge of the students.

Unit wise notes for Mechatronics subject was prepared in power point presentations and uploaded in the slide share for student's easy retrieval.

To enrich the students' knowledge in mechatronics concepts ICT tool Nearpod was used.

Proof (Photo\document\any other)Conducted Date:



Staff In charge

(X)

C. S. D. S. 
Hod\Mech



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INNOVATION

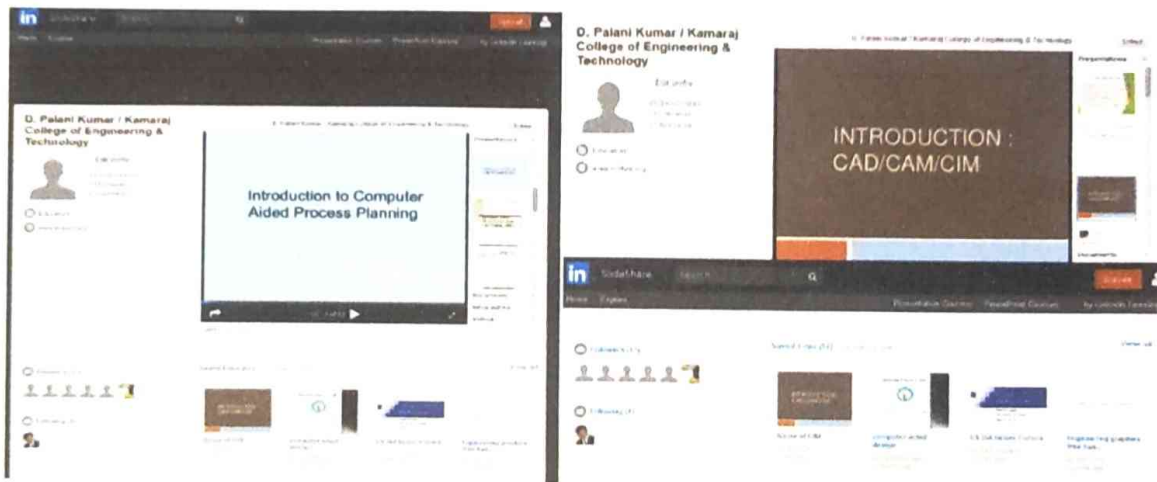
Name of the course instructor : D.PALANI KUMAR
Subject Name : CIM SYSTEMS
Subject Code : ME6703
Academic Year : 2019-2020 (ODD)
Class & sec : IV - 'A'
Tool used : Slideshare

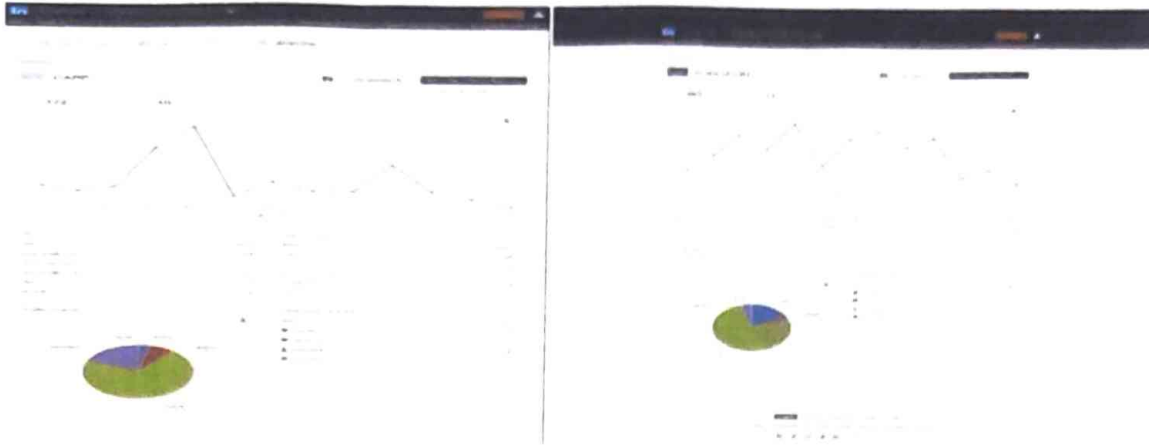
Objective:

To enhance the knowledge in the current trending topics from manufacturing industries integrated with the help of computers.

Proof (Photo\document\any other):

The unit wise notes for Computer Integrated Manufacturing Systems subject were uploaded in the slide share for student's easy retrieval.





Outcome:

The students have gone through the slide share website and utilized the presentations to a greater extent while preparing for the examinations. The analytics of the same has been attached herewith.


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INNOVATION

Name of the course instructor : Mr.B.K.Parrthipan & Mr.P.Siva Subramaniyan
Subject Name : Kinematics of Machinery
Subject Code : ME8492
Academic Year : 2019 – 2020 (EVEN)
Class & sec : II & A and B
Tool Used : Laboratory Demonstration

Objective:

The students are to be given practical exposure for better understanding of mechanism such as quick return mechanism, couplings, gear trains, couplings and shafts to be studied in Kinematics of Machinery.

Proof (Photo\document\any other)



Outcome:

The understanding level of the students is improved by demonstration of theory using the machineries available in the Manufacturing Technology lab. They also understand how the mechanisms are used in various machinery

B.K. Parthipan
Staff In charge

P.S. Subramaniyan
HoD/Mechanical Engineering



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INNOVATION

Name of the course instructor : Mr.B.K.Parrthipan & Mr.P.Siva Subramaniyan

Subject Name : Kinematics of Machinery

Subject Code : ME8492

Academic Year : 2019 – 2020 (EVEN)

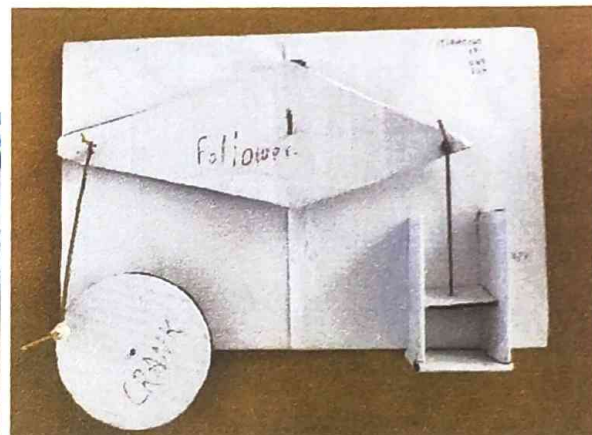
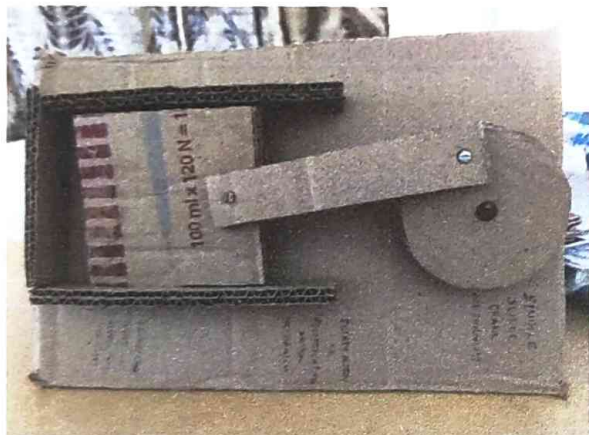
Class & sec : II & A and B

Tool Used : Model Making Contest

Objective:

The students are asked to create a model of a mechanism studied in the topic “Basic of Mechanisms”

Proof (Photo\document\any other)



Outcome:

The students created a model of various mechanism like four bar mechanism, single slider crank mechanism etc., with the help of their learnings in the topic “Basic of Mechanisms”

B.K. Parrthipan
Staff In charge

P.S. Subramaniyan
HoD/Mechanical Engineering