

# KAMARAJ

## COLLEGE OF ENGINEERING & TECHNOLOGY



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

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

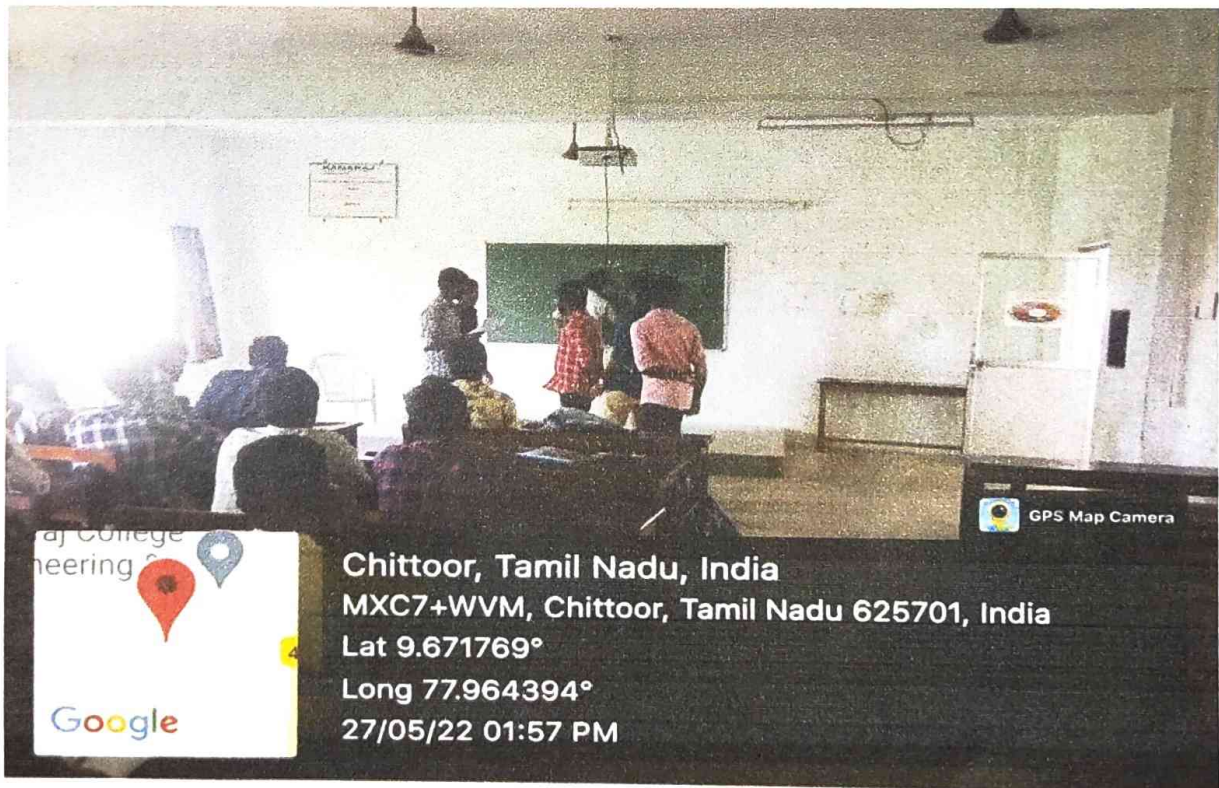
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

### Department of Mechanical Engineering

Course	: B.E.	Subject	: ME8692
Staff Name	: Mr.S.Muthu Natarajan	Code	: Finite Element Analysis
Class	: III Mechanical	Subject Name	: Finite Element Analysis
		Academic Year	: 2021-2022

### Activity Based Learning Report

#### Students Presentation – Fish Bowl Activity



Students were grouped into six members a team format based on their project team and they have selected the topic through fish bowl activity where the 12 different topics were randomly selected by each team head and the respective teams should present the allotted topic for the remaining students. This will help them to review the entire syllabus.

**ME8692 Finite Element Analysis - Students Presentation Details**

S. No.	Batch No.	Team No.	Roll No.	Register No.	Name of the Student	Topic
1	1	T1	19UMEC002	920419114016	JOYSON RALPH JEBADURAI V	Weighted Residual Method
2			19UMEC022	920419114014	JAGANATHAN S	
3			19UMEC011	920419114012	GOBINATH M	
4	2	19UMEC012	920419114024	MUTHUVEERASALAPANDIAN M		
5		19UMEC014	920419114036	SUBHASHRAJ R		
6		19UMEC023	920419114002	ABISHEK S		
7		19UMEC027	920418114013	GOVARTHANAN T		
8	3	19UMEC013	920419114026	N.NAVANEETHAKRISHNAN	Rayleigh Ritz Method	
9		19UMEC015	920419114023	D.L.MANOJ		
10		19UMEC030	920419114005	V.ARUNKUMAR		
11	4	19UMEC044	920419114031	RAMPRASATH C		
12		19UMEC042	920419114039	VENKATESHWARA R		
13		19UMEC053	920419114301	ARUNKUMAR P		
14		19UMEC004	920419114008	R.BALASUBRAMANIYAN		
15	6	19UMEC031	920419114019	R.KUMARESH	One Dimensional Bar Element	
16		19UMEC039	920419114007	R.ASWIN SUNDAR		
17		19UMEC032	920419114028	PRAVEEN RAJ R		
18	13	19UMEC040	920419114041	VIGNESH K B		
19		19UMEC037	920419114004	ARAVINDAN C		
20		19UMEC005	920419114029	V RAHUL		
21		19UMEC003	920419114043	A.VIMAL		
22	7	19UMEC024	920419114033	K.SATHEESH KUMAR	One Dimensional Heat Transfer Problems	
23		19UMEC059	920419114302	N.BALA SUDHARSAN		
24		19UMEC050	920419114313	S.RAGUL		
25	11	19UMEC061	920419114305	R.HARIHARAN		
26		19UMEC060	920419114308	MOHAMED IRSHATH A		
27		19UMEC058	920419114303	DHARUN N		
28		19UMEC057	920419114312	PRABAKARAN A		
29	12	19UMEC047	920419114307	MICKAEL RAJ P	Truss Element	
30		19UMEC056	920419114309	NAGARAJ S		
31		19UMEC007	920419114020	LOKESH S		

32	10	T6	19UMEC017	920419114044	YUVARAJ.K	CST Element - Stress Calculation
33			19UMEC029	920419114027	NAVEEN.D	
34			19UMEC006	920419114030	RAJESH KANNAN.R	
35			19UMEC025	920419114001	AAKASH KANNAN.U	
36			19UMEC009	920419114009	BHUVANESH PANDIAN.P	
37	14	T7	19UMEC036	920419114017	KALIDASAN.M	CST Element - Heat Transfer Calculation
38			19UMEC010	920419114018	KARTHIK. S	
39			19UMEC001	920419114025	NARENDRAN.K	
40			19UMEC026	920419114003	AJAY KUMAR	
41			19UMEC033	920419114038	THOMAS LIVIN DANIEL.A	
42	16	T7	19UMEC045	920419114304	S.GANESH KARTHIC	Axi-Symmetric Element - Stress and Stiffness Matrix Calculation
43			19UMEC048	920419114319	J.VINISH KUMAR	
44			19UMEC052	920419114315	M.SENTHIL KUMAR	
45			19UMEC063	920419114317	SIVA SUBRAMANIAN.S	
46			19UMEC049	920419114316	SIVAPACKIA.R	
47	20	T8	19UMEC055	920419114314	RATHISH.S	Jacobian Matrix Calculation
48			19UMEC020	920419114032	RATHINA SIVA MALAYAPPAN.G	
49			19UMEC041	920419114040	VIGNESH G	
50			19UMEC021	920419114022	MADHAVAN P	
51			19UMEC051	920419114318	S.VIJAYAKUMAR	
52	5	T9	19UMEC046	920419114311	P.PARTHIBAN	Stress Calculation - Iso Parametric Element
53			19UMEC054	920419114310	A.PANDI KAMAL KRISHNA	
54			19UMEC016	920419114015	J. JEEVA BALAN	
55			19UMEC062	920419114306	K.MANIKANDA PRABU	
56			19UMEC008	920419114006	K. ASWIN	
57	18	T10	19UMEC035	920419114034	SIVA ANANTH.E	
58			19UMEC034	920419114042	VIGNESH.N.A	
59			19UMEC043	920419114035	SIVABARATH.K	
60			19UMEC019	920419114021	MADHAVAN.G	
61			19UMEC028	920419114010	DEEPAN KAARTHIK.T	
62	19UMEC038	920419114011	GNANA PRAKASAM.G			

D.D. Dhananjay

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

**DEPARTMENT OF MECHANICAL ENGINEERING**

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### **ACTIVITY BASED LEARNING**

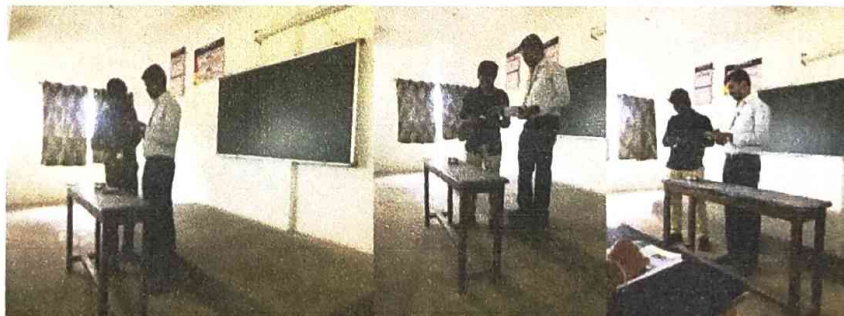
<b>Name of the course instructor</b>	<b>: B.PRABHU</b>
<b>Subject Name</b>	<b>: Production Planning and Control</b>
<b>Subject Code</b>	<b>: IE8693</b>
<b>Academic Year</b>	<b>: 2021-2022 (Even)</b>
<b>Class &amp; sec</b>	<b>: IV - A</b>
<b>Tool used</b>	<b>: Quiz through Fish Bowl</b>

#### **Description:**

The subject IE8693 – Production planning and control (PPC), all the syllabus topics are explained to the students by giving lecturing through case studies and power point presentation. For better understanding and easy remembering of the contents, individual students are asked to participate the QUIZ through Fish Bowl, in which the glossary questions in PPC are prepared and they are asked to take the lot at a time. The chosen content is explained by the students. Hence, they will able to remember and recall the concepts of the subject.

**Proof (Photo\document\any other)**

**Conducted Date: 04/03/2022**

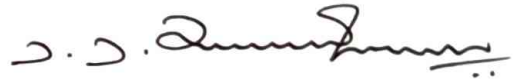


**Outcome:**

1. The students will be able to recall the concepts in PPC.
2. The students will have the chance to know the contents of PPC concepts through their batch mates.



**Staff In charge**



**Hod\Mech**



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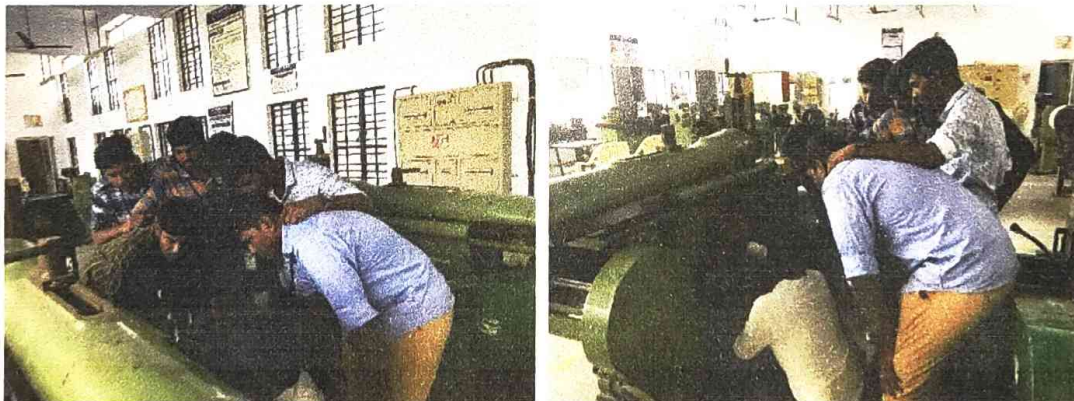
### INNOVATION

Name of the course instructor : Mr.B.K.Parrthipan  
Subject Name : Kinematics of Machinery  
Subject Code : ME1471  
Academic Year : 2021 – 2022 (EVEN)  
Class : II  
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. Parrthipan*

Staff In charge

*S.S. [Signature]*



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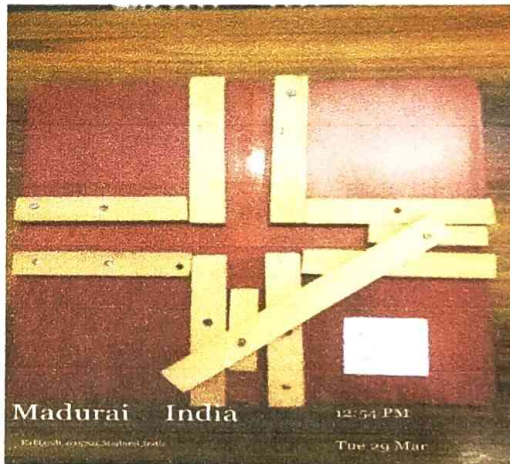
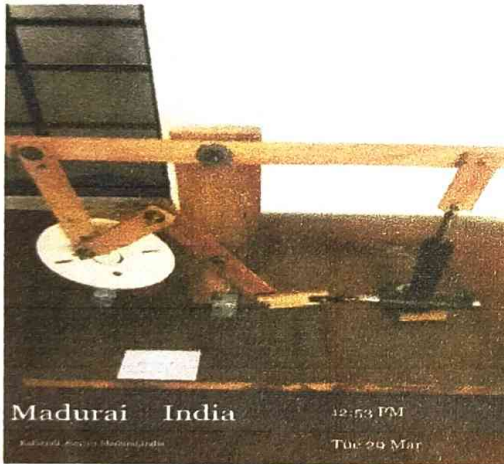
### INNOVATION

Name of the course instructor : Mr.B.K.Parrthipan  
Subject Name : Kinematics of Machinery  
Subject Code : ME1471  
Academic Year : 2021 – 2022 (EVEN)  
Class : II  
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

S.S. Suresh

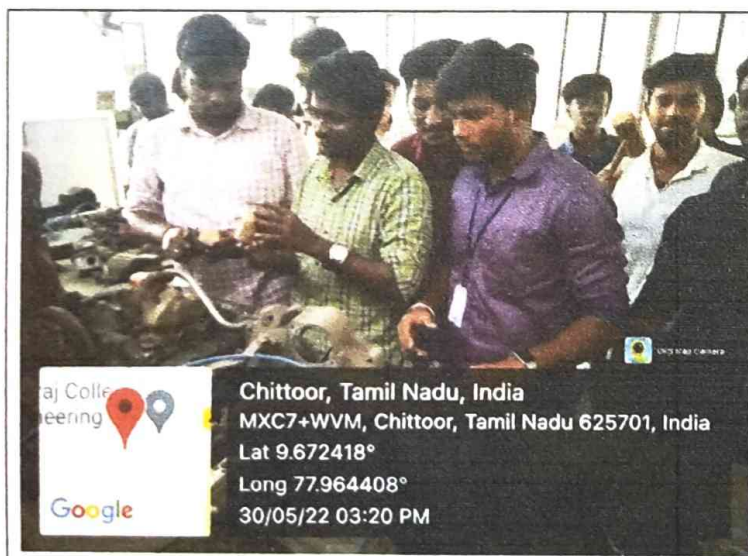
## INNOVATION

Name of the course instructor	:S.DEVARAJ, AP/MECH
Subject Name	: Automobile Engineering
Subject Code	: ME8091
Academic Year	: 2021 - 2022
Class	: III
Tools Used	: Hands on Practices, ICT (Quizizz)

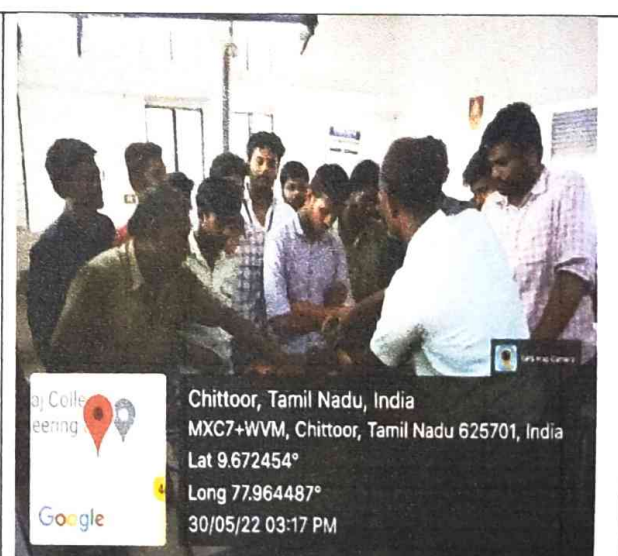
### Objective:

- To enhance the practical knowledge and also involve the students with real time applications laboratory demonstration of Automobile components was given in advance.
- To Dismantling and Assembling the differential unit and Gear box assembly in Automobile Engineering.
- To enrich the students' knowledge in Automobile Engineering 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:

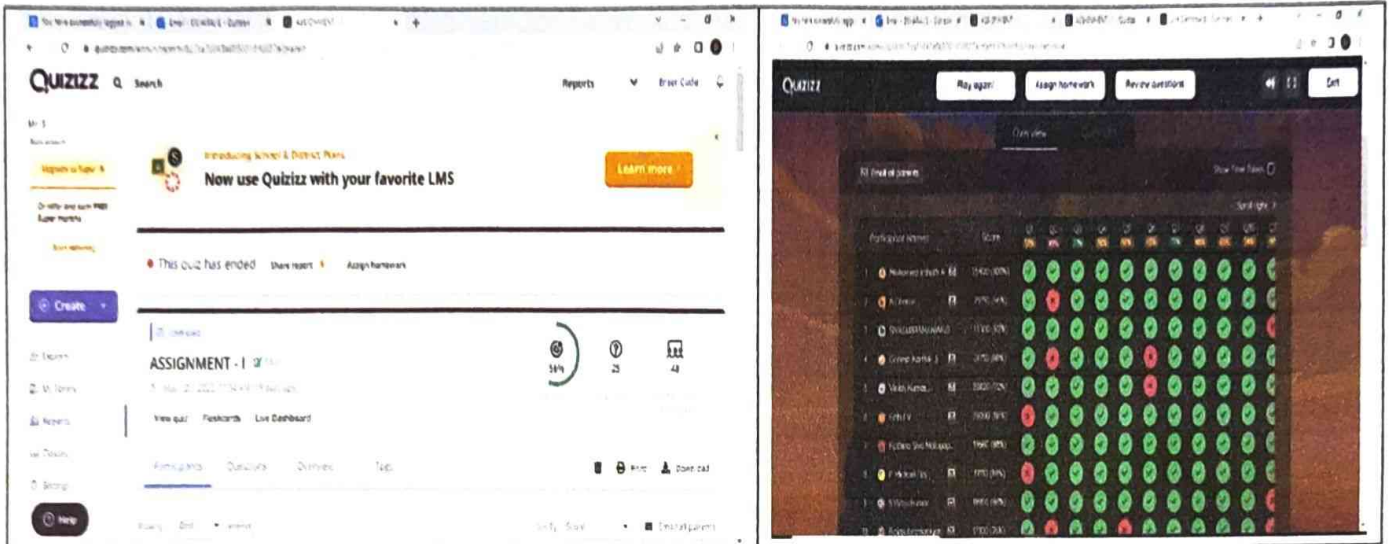


Hands on Practices (30.05.22)



Lab Demonstration (30.05.22)





ICT Tool - Quizizz (22.02.22)

**Outcome:**

- It is expected that the student will be able to understand the concepts of differential unit and Gear box assembly to apply in various tools.
- In this activity, a demo on Engine components were given to students to understand the working of engine components.
- It provides real-world experience by allowing the student to get his/her hands directly on whatever he/she is learning.

STAFF IN CHARGE

HODMECH

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## INNOVATION

**Name of the course instructor** : S.DEVARAJ

**Subject Name** : Entrepreneurship Development

**Subject Code** : MG8091

**Academic Year** : 2021 - 2022

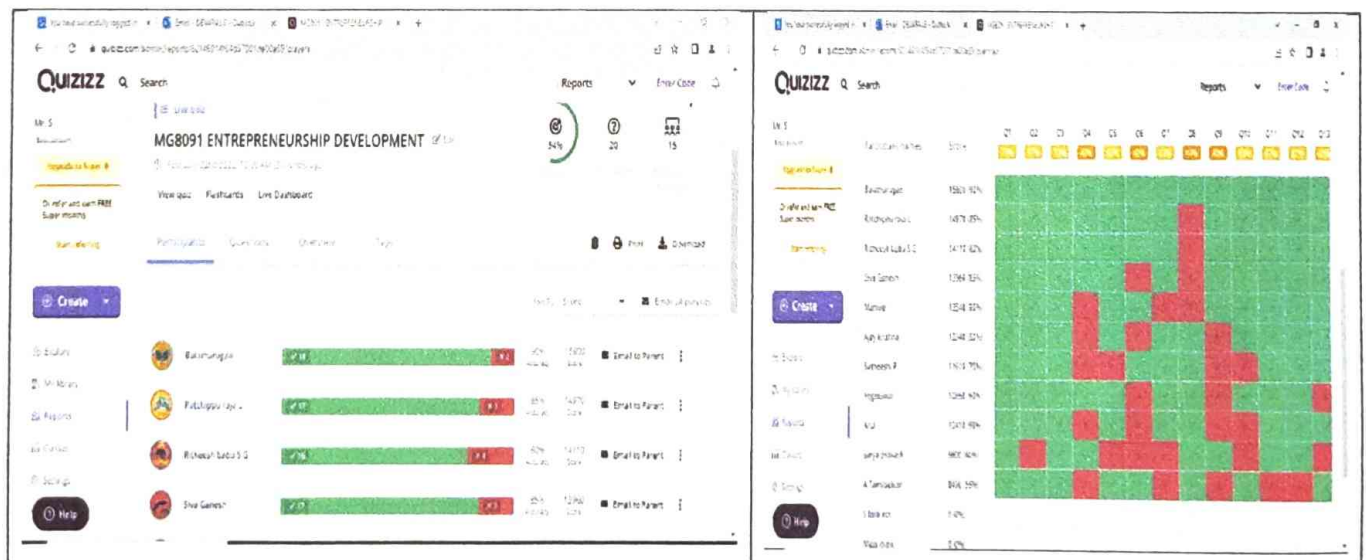
**Class & sec** : IV & (A&B)

**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)**



ICT Tool - Quizizz (30.05.22)

**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 quizizz which minimize the analyzing time provide reliable statistical data.



**STAFF IN CHARGE**



**HOD\MECH**

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Course	: B.E.	Subject	: ME8692
Staff Name	: Mr.S.Muthu Natarajan	Code	: Finite Element Analysis
Class	: III Mechanical	Subject Name	: Finite Element Analysis
		Academic Year	: 2021-2022

### Activity Based Learning Report

#### Peer Enabled Learning



Students were asked to form a team among themselves (the maximum members in a team is limited to 6). They were given a task to prepare the formulae sheet for unit 1 & 2 and present the same in front of other students for better understanding.

  
Staff In charge

  
HoD/Mech