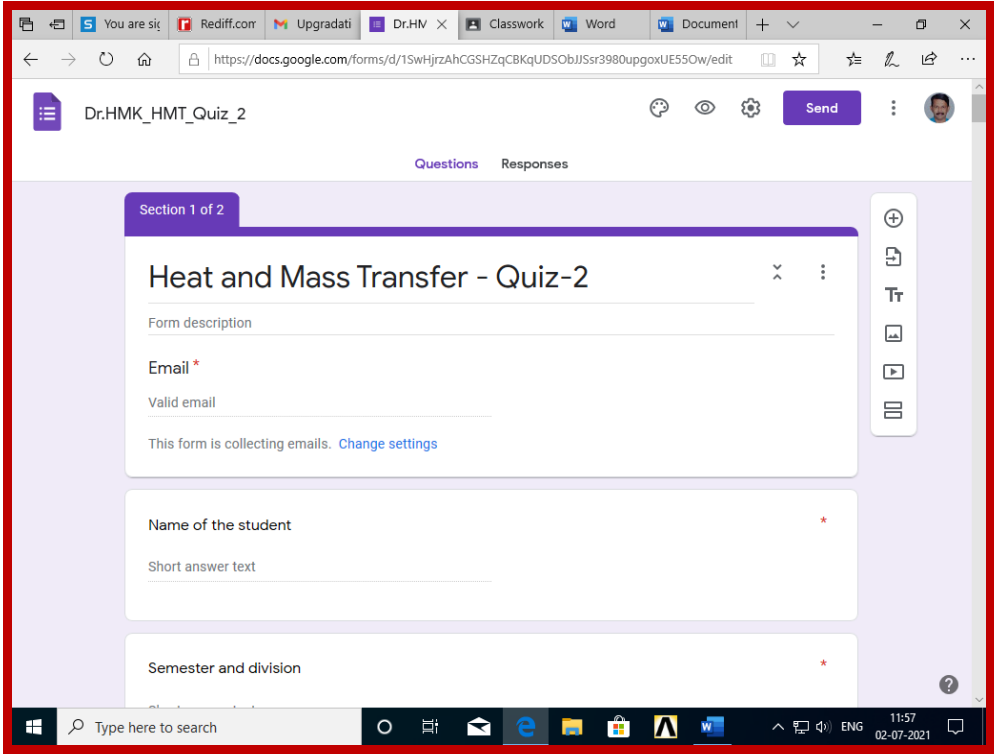


**B. V. V. Sangha's**  
**Basaveshwar Engineering College (Autonomous), Bagalkot**  
**Department of Mechanical Engineering**

**Best practices in the Department**

Sl. No.	Best Practices Adapted	Date/Year	Report With Photographs
1.	Quizzes were conducted for VI semester students in Heat and Mass transfer subject to prepare them for the competitive examinations like GATE.	13-07-2020  and  05-08-2020	 A screenshot of a Google Forms quiz titled "Heat and Mass Transfer - Quiz-2". The form is displayed in a web browser window. The form includes a "Form description" field, an "Email" field (marked as required), a "Name of the student" field (marked as required), and a "Semester and division" field (marked as required). The form is currently in "Section 1 of 2". The browser's address bar shows the URL: https://docs.google.com/forms/d/1SwHjrzAhCGSHZqCBKqUDSObJJsr3980upgxoUE55Ow/edit. The Windows taskbar is visible at the bottom of the screenshot, showing the time as 11:57 on 02-07-2021.

Dr.HMK\_HMT\_Quiz\_2

Questions Responses 47 Total points: 50

## Heat and Mass Transfer - Quiz-2

Description (optional)

The thickness of thermal and hydrodynamic boundary layer is equal if \*

- Prandtl number = 1
- Prandtl number > 1
- Prandtl number < 1
- Prandtl number is equal to Nusselt number

Consider the development of laminar boundary layer for a moving non reacting fluid on a flat plate of length 'L' along the flow direction. The average value of heat transfer coefficient can be obtained by multiplying the local heat transfer coefficient at the trailing edge by the factor \*

Dr.HMK\_HMT\_Quiz\_2

Questions Responses 47 Total points: 50

Accepting responses

Summary Question Individual

### Insights

Metric	Value
Average	33.11 / 50 points
Median	34 / 50 points
Range	16 - 39 points

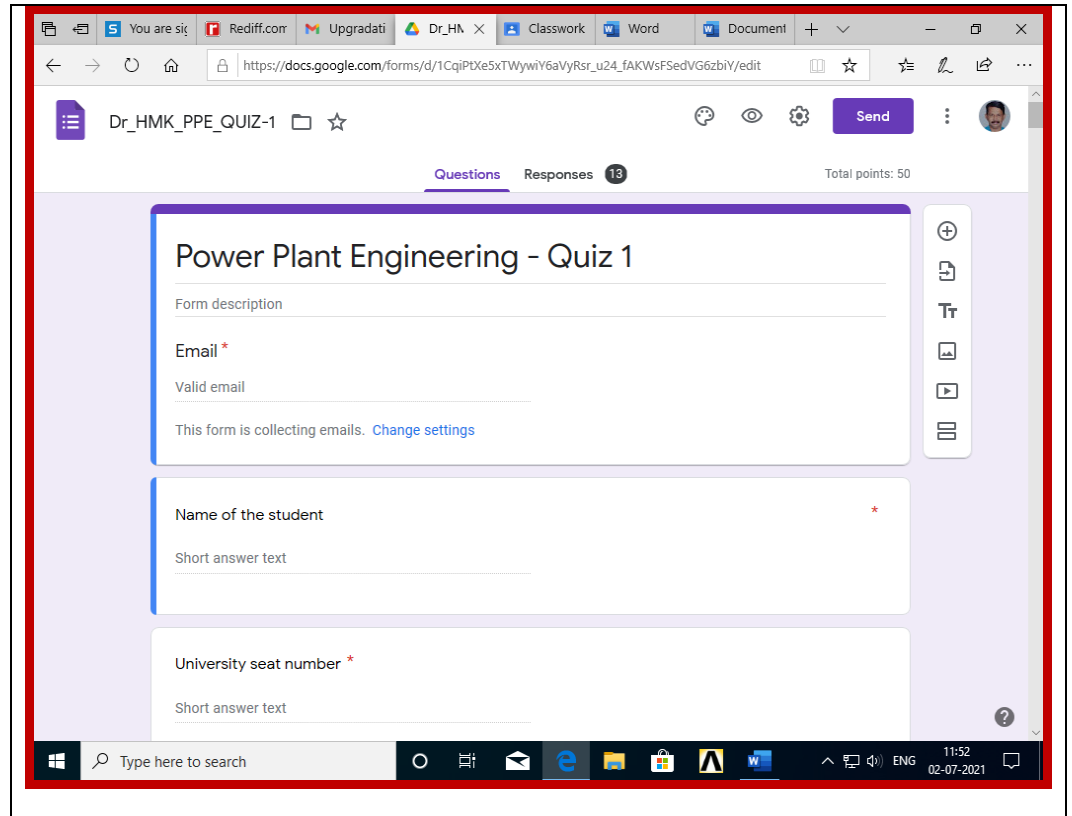
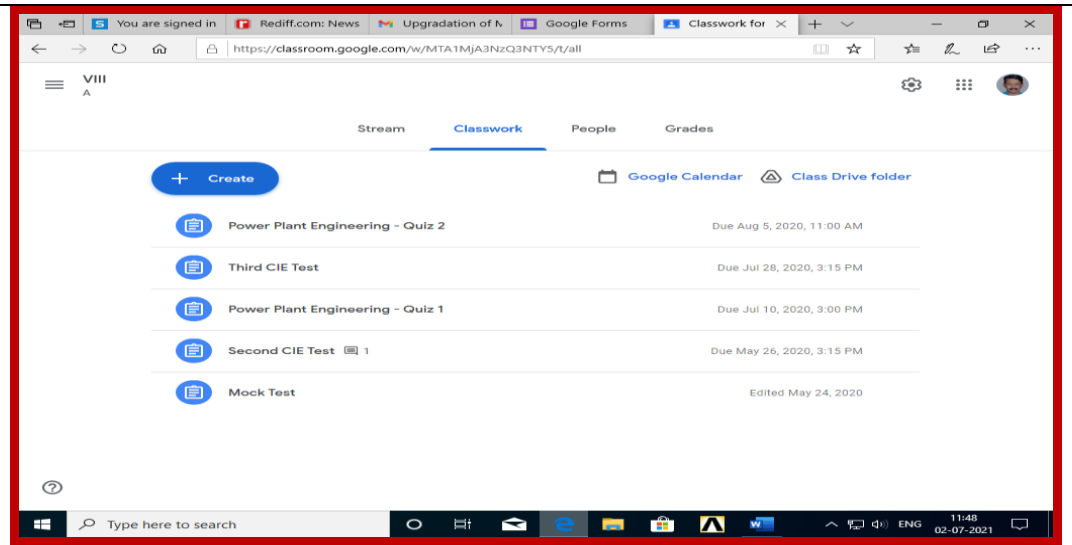
Total points distribution

Points scored	# of respondents
16	1
20	1
22	1
24	1
26	1
28	2
30	3
32	6
34	8
36	4
38	1

Course Instructor: Dr. H. M. Kadlimatti

2. Quizzes were conducted for VIII semester students in Power Plant Engineering subject to prepare them for the competitive examinations like GATE.

10-07-2020  
&  
05-08-2020



Dr\_HMK\_PPE\_QUIZ-1

Questions Responses 13 Total points: 50

The smallest particle which can take part in a chemical reaction is called \*

- atom
- molecule
- electron
- compound

A chemical fuel is a substance which releases ..... on combustion \*

- chemical energy
- heat energy
- sound energy

Dr\_HMK\_PPE\_QUIZ-1

Questions Responses 13 Total points: 50

Accepting responses

Summary Question Individual

Insights

Metric	Value
Average	26.23 / 50 points
Median	27 / 50 points
Range	20 - 37 points

Total points distribution

Points scored	# of respondents
20	2
22	2
24	1
26	1
28	1
30	4
37	1

Course Instructor: Dr. H. M. Kadlimatti

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3. In addition to the classroom interactions of Elements of Mechanical Engineering (EME) subject, the students are asked to present the Technical Seminars and submit Assignments related to the subject with real time applications. The impact of such practises helps the students to focus more on the conventional/latest technology. The faculty will assign the various topics to the students. The students will present the topics in the Smart classrooms after collecting the information from various sources.

01<sup>st</sup> Semester  
A Division  
Academic  
Year 2020-  
2021

Pratiksha . Chandaragi  
R-No - 65  
15-04-2021  
CSN - 202010482  
Div - A

Presentation  
On  
A.Raw materials used per day and electricity used per day  
1.Raichur thermal power plant  
2.Bellary thermal power plant  
3.Yeramarus thermal power plant  
B.Reaction steam turbine  
By  
Pratiksha chandaragi  
Semester : 1<sup>st</sup>  
Roll no : 65  
Division : A  
CSN : 202010482  
Subject : Elements of Mechanical Engineering  
Subject code : UME163C  
Date : 15/04/2021  
Course instructor : Dr.S.M.Jigajinni

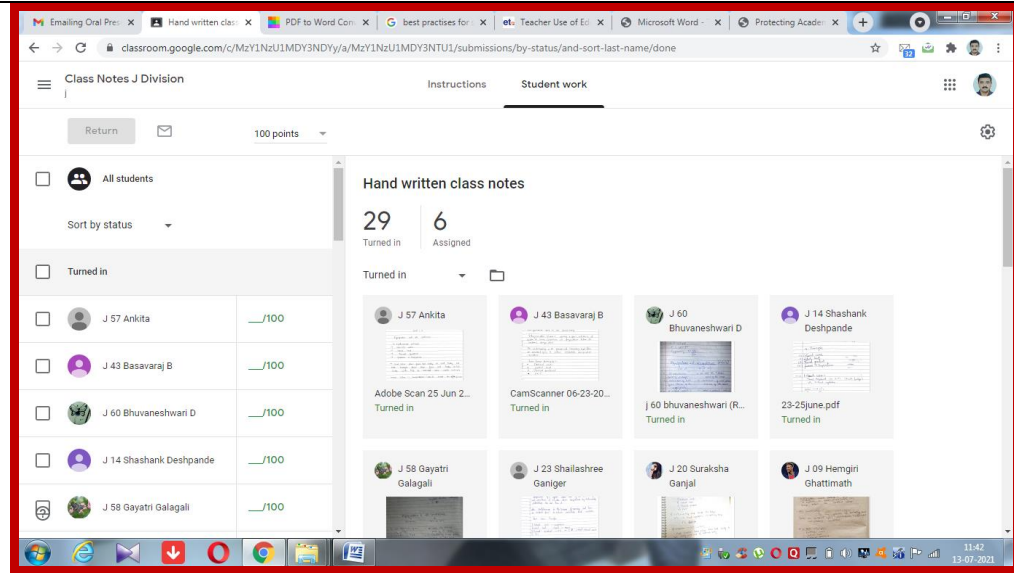
-:Raichur thermal power plant:-  
This power station located at yadlapur in the Raichur dist of Karnataka state.It is operated by the Karnataka Power Corporation Limited (KPCL) and was the first thermal power plant to be set up in the state.The power station was commissioned during various periods from 1985 and it accounts for about 70% of the total electricity generated in Karnataka.  
Raw materials:  
RTPS uses coal for generation of electricity. Its daily requirement of coal is about 20,000 metric tons, when running at full capacity, which is delivered from Western Coalfields Ltd. and Mahanadi Coalfields Ltd. The coal supplied is sampled using a computerized system and sent to the laboratory for testing. This ensures that the proper grade of coal is used.  
The plant has also started to use washed coal, due to its lower ash content.[7]  
The plant's cooling water is pumped from the Krishna river nearby.

Sample copy of Technical seminar report

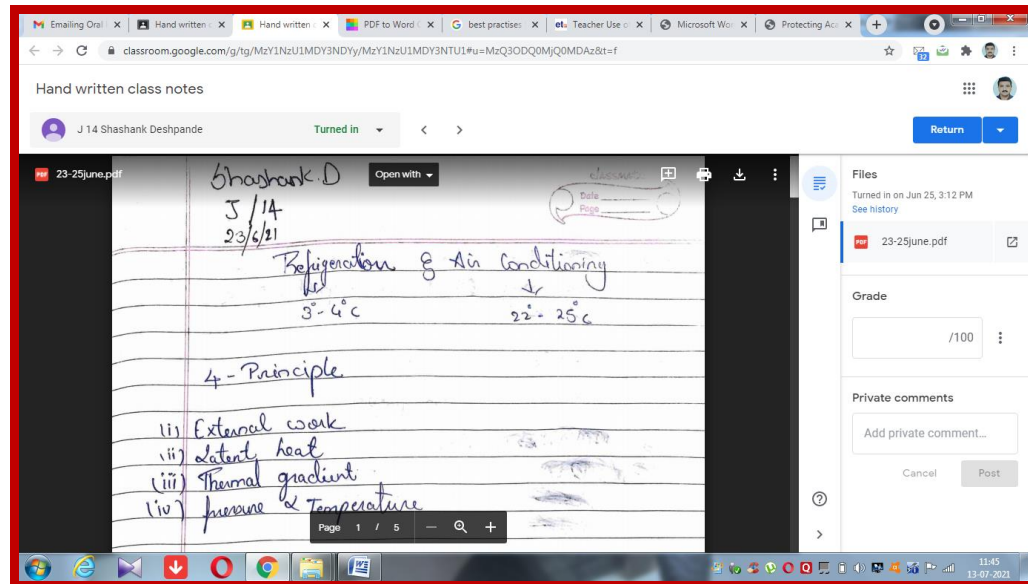
Course Instructor: Dr. S. M. Jigajinni

4. In order to make the students to attend the online classes of Elements of Mechanical Engineering subject (during pandemic situation), the students are informed to submit the hand written notes of the particular class to the google classroom.

02<sup>st</sup> Semester  
I and J  
Division  
Academic  
Year 2020-  
2021

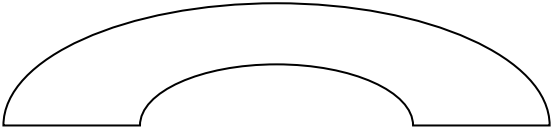


Class Notes submitted by the students to the google classroom



Sample copy of the class notes submitted by one of the student

Course Instructor: Dr. S. M. Jigajinni

<p>5.</p>	<p><b>Active learning Strategy in the classroom (Think-Pair-Share)</b></p>	<p><b>05<sup>th</sup> Semester Metal Forming A and B Division Students  Academic Year 2019- 2020</b></p>	<p><b>In order to actively engage the students during the offline classes, and make the class interactive, TPS activity is conducted in every class for about 3-5 minutes. Students learn from each other. It includes all the students in the teaching learning process. TPS activity itself shares the three stages</b></p> <ol style="list-style-type: none"> <li><b>1. For a individual student to think and answer about the question posed by the faculty (<math>\approx 2</math> min.)</b></li> <li><b>2. To deepen the students understanding of the topic, instructor asks another question related to previous one. In the pair phase, their share their thinking with each other and proceed with the task. (<math>\approx 4</math>min).</b></li> <li><b>3. Finally students share their thinking (or solution) to the entire class (<math>\approx 6</math>min).</b></li> </ol> <p><b>The instructor moderates the discussion and highlights the important points using Digital board.</b></p> <p><b><u>One of the Activity for the students to actively engage themselves during the class</u></b></p>  <p>To Know the importance of metal forming, course insrtuctor will ask the different manufacturing processes by which the above part is produced with relative merits and demerits. It was found that 60% of the students were actively participated in the activity.</p> <p>Course Instructor: Dr. S. M. Jigajinni</p>
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<b>6.</b>	<b>NPTEL Courses</b>	<b>2019-2021</b>	Pre Final and Final year students have undergone the courses conducted by various IITs through NPTEL platform and completed their course successfully to get relevant knowledge and development of relevant skills of their domain.
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7.	<b>Other Courses</b>	<b>2020-2021</b>	Final year students have undergone other courses (like COURSERA, IEEE) and short term courses conducted by IIT, other institutes and organisations.
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