



DR. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

(Estd. 1986) Oorgaum, Kolar Gold Fields, Karnataka – 563120
(Affiliated to VTU, Belgaum. Approved by AICTE – New Delhi)
(Accredited with 'A' Grade by NAAC)

Charts and Models-Based Teaching

The faculty uses charts/models in all the courses for concept formation and the development of critical ideas among students. The Department of Mining Engineering has a vast resource of charts and models. Students experience visual conceptualization through charts and models.



Figure: An Image of faculty explaining the concepts using Charts and Models



Figure: An Image of students learning the concepts using Charts and Models



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Underground Mine Model

A state of art underground mine model is available as an additional facility in the department. The underground mine model comprises various features and components of underground mining like access, supports, safety, ventilation and haulage. It is used by all faculty to demonstrate the concepts of the underground mine model and conduct laboratory experiments. Students also involve in renovating the underground mine model time to time.



Figure: An Image of faculty explaining the concepts of underground mining



Figure: Students involved in renovation activities in underground mine model



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Figure: Students involved in renovation activities in underground mine model



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Flip Class

The flipped classroom is hugely convenient to learn. Rather than learning in a traditional classroom, the flipped classroom uses a more application-based approach for students. A domain or topic is given to individual students or a group of students, and the faculty helps to find the source and resource for the topic. Then, the students prepare a PowerPoint presentation and present it through online mode/offline mode for the rest of the classroom.

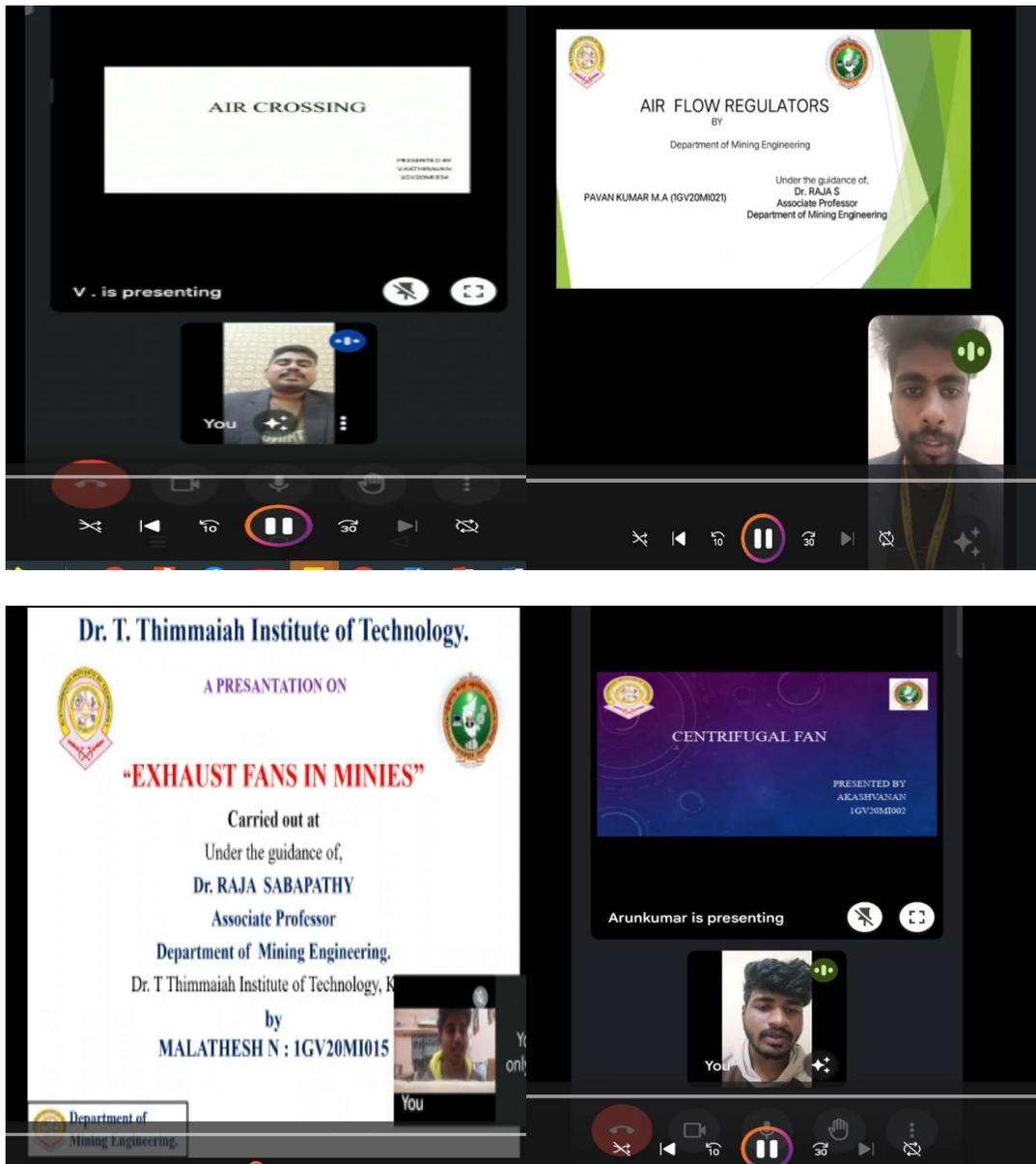


Figure: A sample Flip class video of students



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Google Class Room

Faculty are using Google Classroom and Google Forms for various teaching-learning processes. They are:

1. Share learning resources and lecture materials
2. Share scheme of evaluation
3. Submit Assignment
4. Conduct Online Classes

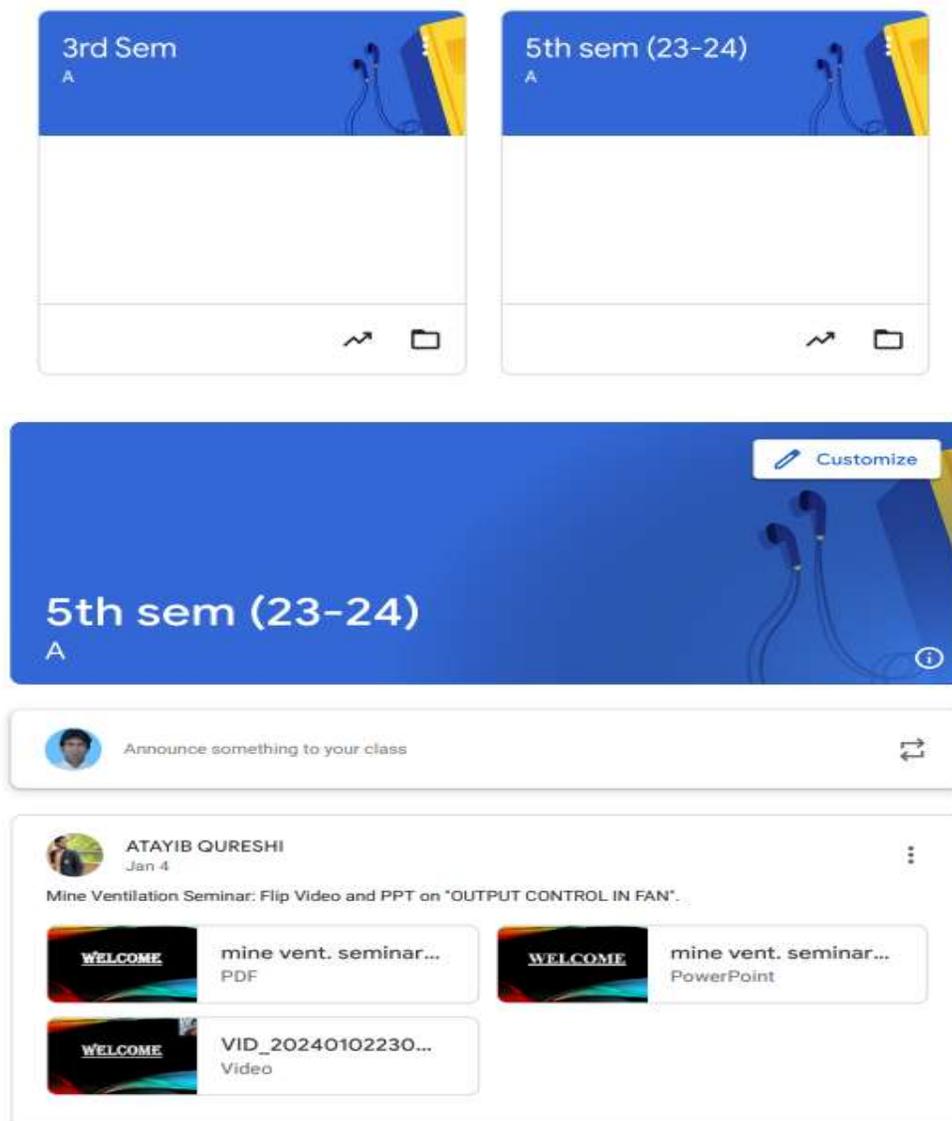


Figure: Showing a sample of Google Classroom



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 **Raja DRTTIT**
Nov 27, 2023

Mine Ventilation Module-Wise Lecture Material

	Module 1_organized.pdf PDF		Module 2.pdf PDF
	Module-I(18MN54).pdf PDF		Module-II(18MN54).pdf PDF
	Module-III(18MN54).pdf PDF		Module-IV(18MN54).pdf PDF
	Module-V(18MN54).pdf PDF		Numerical problems on Mi... PDF
	Ventilation Survey.pdf PDF		

☰  Classroom > Rock Mechanics 2022

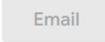
 Home  Calendar  Teaching  To review  Gender Sensitisation 5th sem  UCM 5th sem  SoM 3rd Sem  Archived classes  Settings	Stream Classwork People Grades
	Class is archived. Restore it to add or edit anything.
	<h2>Teachers</h2> <hr/>  Dr. Manjunath A
	<h2>Students</h2> <hr/> <input type="checkbox"/>  Email
	<input type="checkbox"/>  1GV20MI004 AMBRISH K E

Figure: Showing a sample of Google Classroom



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One Minute Feedback

A “one-minute feedback” may be defined as a concise, in-class writing activity (taking one minute or less to complete) in response to an instructor-posed question, which prompts students to reflect on the day’s lesson and provides the instructor with helpful feedback.



Figure: A Sample of One Minute Feedback Conducted by Dr. Manjunth A in Classroom



Figure: A Sample of One Minute Feedback Conducted by Dr. Manas Mukhopadhyay in Classroom



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Common Assignment Between Two Courses

Mining Engineering is a combination of courses. A typical common assignment is designed between subjects to connect the concepts among subjects. Such assignments enhance the learning experience of the student by connecting the application of one concept to another.

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COMMON
SUBJECT
ASSIGNMENT

F.No: DTTIT/IQAC/2022-23/066P
 Department of Mining Engineering
 Assignment Question Paper

Academic Year: 2022-23 Date: 14/01/23
 Semester: 5 IA: 3
 Course Name: UCM & Mine Ventilation Course code: 18MN52 & 54
 Duration: 1 Week Max Marks: 30 (each)
 Course Instructor: Dr. Manjunath A. and Dr. Raja S

Note: Answer any complete question

Sl. No.	Questions	CO/Marks
1.	Calculate the quantity of air, pressure of air, air power, and cost of ventilation for the bord and pillar method of working. Explain the procedure of selection of fan based on best efficiency point and operating point. The calculation should also include the drawing of the ventilation flow network for a district of underground coal mine. Depth: 220 m Dip: 1 in 7 Developed by B & P system Deg. of gassiness : II Deg. Working with: solid blasting and LHD Roof and floor : strong Gallery width: 4.2 m Seam thickness: 3.2 m Incubation period: 22 months. Show the layout for depillaring operation. List out equipments required. Also calculate OMS.	UCM (03) MV (04)

Course Instructor(s)

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Department of Mining Engineering
 B.E. V Semester Assignment III
 Scheme and Solution

Scheme : 2018 Academic Year: 2022-23
 Course Name : Underground Coal Mining Course Code: 18MN52 & 18MN54
 Mine Ventilation Max marks: 30 (each)
 Course Instructor : Dr. Raja S. Date: 03/01/2023

Q.No	Brief Solution	Marks
1.	<u>UCM part</u> <ul style="list-style-type: none"> B&P panel Layout Equipments required Personnel deployed OMS <u>Ventilation part</u> <ul style="list-style-type: none"> Calculation of Quantity Pressure Airpower Cost of ventilation Selection of fan based on BEP and OP Drawing of ventilation network 	12 8 8 2 3 3 4 2 8 10

Course Instructor/s

Figure: Sample Question Paper and scheme of Mine Ventilation and Underground Coal Mining

