

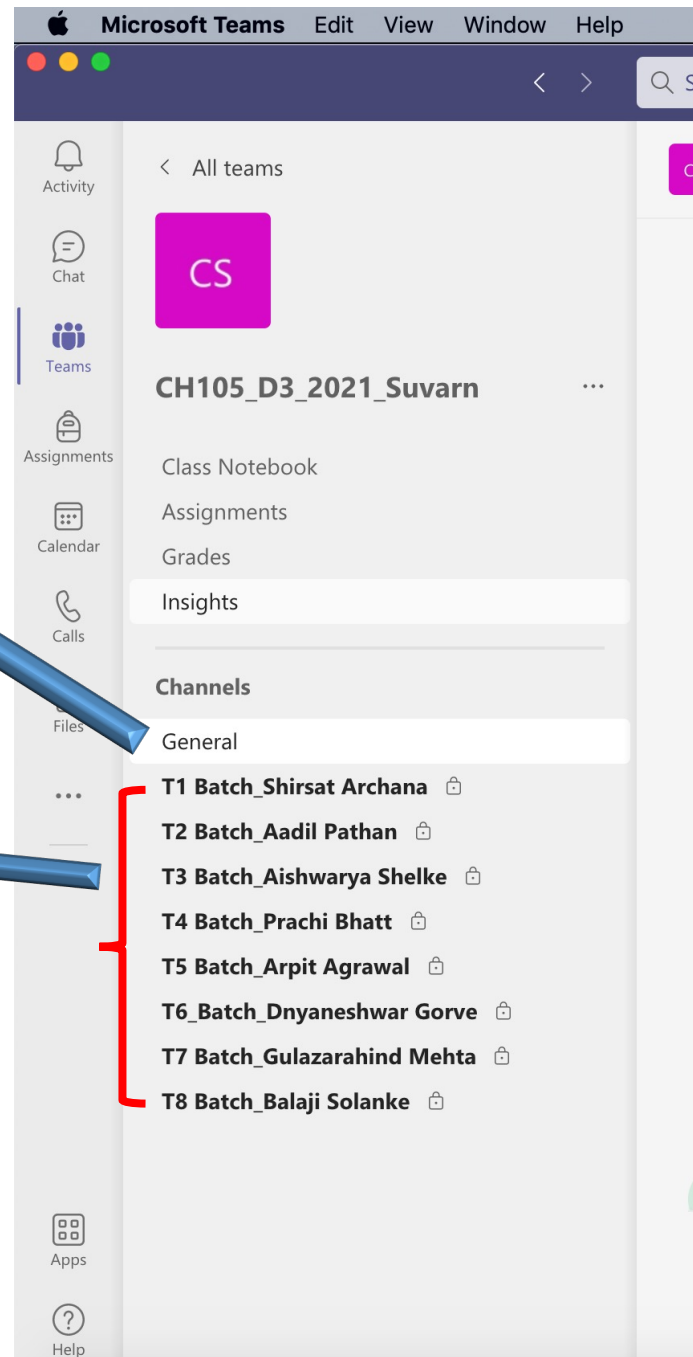
CH-105 Inorganic

D3 Division

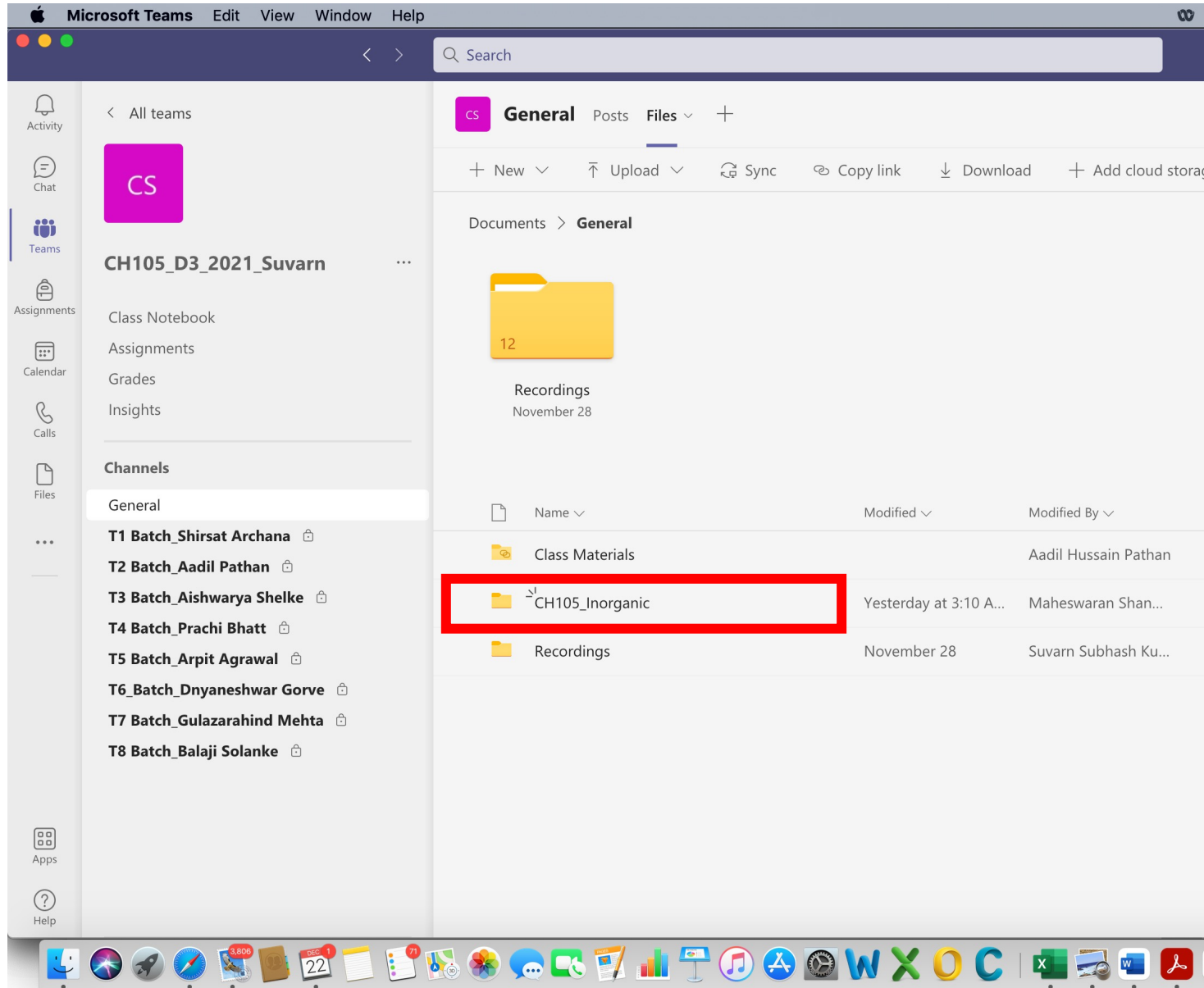
Dec 2021

**For Thursday
Interactive session
For all **D3** Division**

**For Wednesday
Tutorial**



Where to find video lectures, slides and tutorial problems?



Eight Tutorials batches for D3 students

D3-T1	LSP	
D3-T2	PG	
D3-T3	GKL	
D3-T4	Argha Saha, 184033049	Harshvardhan Nigam
D3-T5	Maya Kumari	Deshmukh Gopal Diliprao,
D3-T6	Navneet Matharoo, 194030001	Animesh Ghosh, 194033009
D3-T7	Savi Chaudhary, 194030002	Bharti Yadav, 184030014
D3-T8	Nettem Chandra Sekhar	Md Ashif Ali, 184033001

Activity

Chat

Teams

Assignments

Calendar

Calls

Files

...

< All teams

CS

CH105_D3_2021_Suvarn

Class Notebook

Assignments

Grades

Insights

Channels

General

T1 Batch_Shirsat Archana

T2 Batch_Aadil Pathan

T3 Batch_Aishwarya Shelke

T4 Batch_Prachi Bhatt

T5 Batch_Arpit Agrawal

T6_Batch_Dnyaneshwar Gorve

T7 Batch_Gulazarahind Mehta

T8 Batch_Balaji Solanke

Planning D3

D3 Prof. Leela Srinivas Panchakarla

1st class week (23rd to 30th December)

Monday 11:30 a.m. - 12:25 p.m.  **---- Watching video lectures of 3 hrs.**

Tuesday 08:30 a.m. – 09:30 a.m.

**by Wed 10:00 am ---- 3 H5Ps (containing 5 Questions each needs to be answered in Moodle).
Each expected to take ~2-3 minutes.**

Wednesday 02:00 - 02:55 p.m. ---- Tutorial for all students. Each sections (T1-T8) divided by 8 tutorial batches.

Thursday 09:30 - 10:30 a.m. ----- Class hour for D3 in MST

2nd class week (3rd to 7th Jan) - Repeat

3rd class week (10th to 13th Jan) - Repeat

H5P in Moodle...How to

- CH 405-2020-1
- Participants
- Badges
- Competencies
- Grades
- General
- Topic II: Mechanism of Inorganic Reactions**
- 17 August - 23 August
- 24 August - 30 August
- 31 August - 6 September
- Dashboard
- Site home
- Calendar
- Private files
- Content bank
- My courses
- CH 105-2020-1-S9
- CH 105-2020-1-S8
- CH 105-2020-1-S7
- CH 105-2020-1-S6
- CH 105-2020-1-S5

When a sample is placed in H, the field within the body differs from the free space value. The body is magnetised. The intensity of the magnetisation is the rate of change of E of the body in the field:

$$M = -\delta E / \delta H$$

The sensitivity of M to H is defined as the magnetic susceptibility, χ .

When the field is weak, χ becomes independent of H.



Magnetic Susceptibility

$$\chi = M/H$$

Molar susceptibility is given as

$$\chi_m = \chi_g \times \text{Mol. Wt.}$$

Where, M. Wt. is molecular weight of the sample

CH 405-2020-1

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Topic II: Mechanism of Inorganic Reactions

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CH 105-2020-1-S8

CH 105-2020-1-S7

Advanced Transition Metal Chemistry

Dashboard / Courses / Autumn 2020 (2020-1) / CH 405-2020-1 / Topic II: Mechanism of Inorganic Reactions / Magnetism, Transition & Lanthanide ions and their complexes

Magnetism, Transition & Lanthanide ions and their complexes

Magnetism, Transition & Lanthanide ions and their complexes

MAGNETIC SUSCEPTIBILITY

When a sample is placed in a magnetic field, the magnetisation is the rate of change of the magnetic moment with the magnetic field.

The sensitivity of M to H is called the magnetic susceptibility.

When the field is weak, M is proportional to H .

Pick the incorrect statement among the following.

✓ Progress: 0/1

A. Magnetic susceptibility of any paramagnetic compound will have a contribution from both paired and unpaired electrons.

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Topic II: Mechanism of Inorganic Reactions

7 August - 23 August

4 August - 30 August

1 August - 6 September

Magnetism, Transition & Lanthanide ions and their complexes

Magnetism, Transition & Lanthanide ions and their complexes

★ **5 Question(s) answered**

You have answered 5 questions, click below to submit your answers.

✓ Submit Answers

Week 1

By Tuesday morning complete watching Topics I and II video pre-recorded lectures.

Tuesday morning 10am – Wed 10 am complete H5P quiz in moodle.
(has weightage to end-semester exam)
DO NOT MISS THIS.

Wednesday tutorial (02:00 - 02:55 p.m.)
- Attend tutorial in your tutorial channel - **29th December**

Thursday class hour (09:30 - 10:30 a.m.)
- Attend in your division channel - **30th December**

Week 2

By Tuesday morning complete watching Topic III video pre-recorded lectures.

5th Jan.

6th Jan.

Week 3

By Tuesday morning complete watching Topics IV and V video pre-recorded lectures.

12th Jan

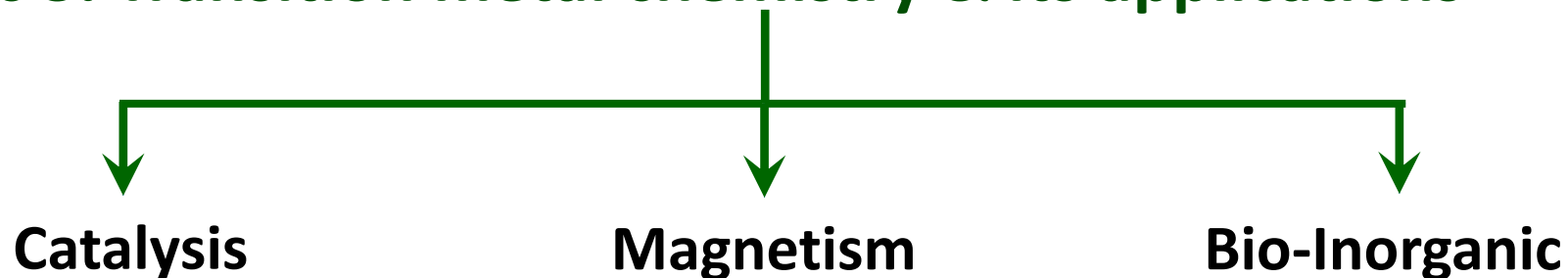
13th Jan

Topics Covered In This Course

Topic 1. Properties of elements & compounds

Topic 2. Basic principles of extraction of metals from ores & purification

Topic 3. Transition metal chemistry & its applications



Recommended Text Books

(1) Concise Inorganic Chemistry - J.D. Lee

(2) Shriver & Atkins' Inorganic Chemistry

P. Atkins, T. Overton, J. Rourke, M. Weller, F. Armstrong

**(3) Chemistry 4th Edition, Catherine E. Housecroft Edwin
C. Constable**

