

1/25/2021

**Report on Subjective
course conducted on
MOOC Course on
ELECTROCHEMISTRY
conducted on
MOOC on**

Submitted by,

Dr. Megha U. Patil
ASSISTANT PROFESSOR IN CHEMISTRY

“Dissemination of Education through Knowledge, Science and Culture.”

—Shikshanmaharshi Dr. Bapuji Salunkhe.

Shri. Swami Vivekanand Shikshan Sanstha's

**Padmabhushan Dr. Vasantodada Patil Mahavidyalaya,
Tasgaon, Sangli-416312, Maharashtra
(Affiliated to Shivaji University Kolhapur)**



**DEPARTMENT OF
CHEMISTRY**



Report on Subjective course conducted on MOOC Course on **ELECTROCHEMISTRY** conducted on **MOOC on MyeClass Portal**

Submitted to

INTERNAL QUALITY ASSURANCE CELL

Organising Department Department of Chemistry

Duration

23rd October to 30th November 2020

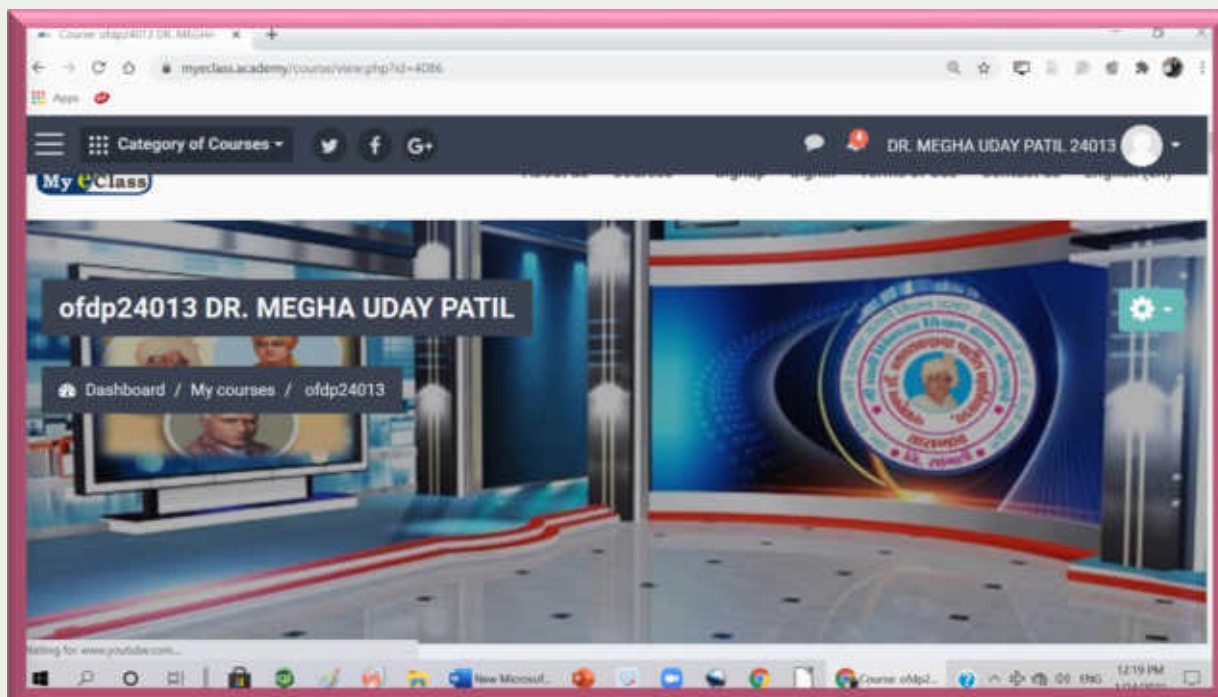
Platform

MyeClass Portal

Participants

- **Total: 130**
- **Male: 48**
- **Female: 82**

About Course:



We have been keen interested to conduct online lecture on Massive Open Online Courses (MOOC) to engage our students in learning process. We are thrilled that GAD-TLC provide us MyeClass portal to conduct such courses on this portal. Which help us to share Study material in terms of Module, Notes, Assessment and Assignment.

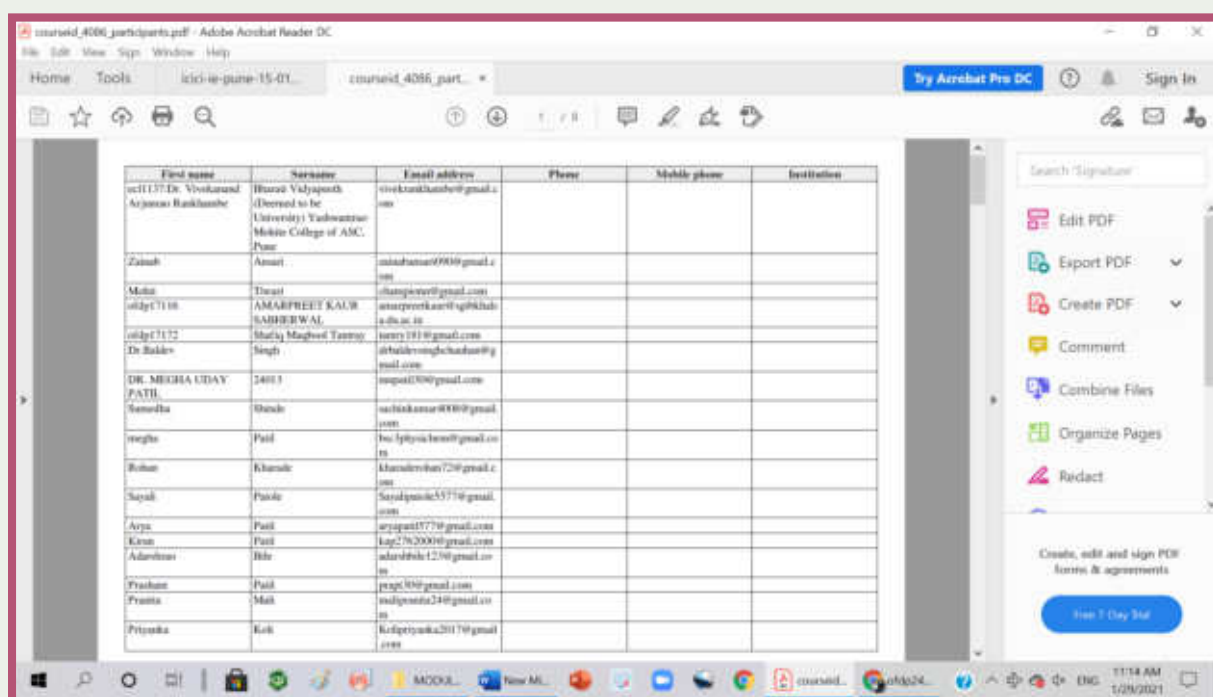
MOOC has become an effective solution to conduct online lectures at a low cost.

We conduct this course by providing Study material in terms of self-prepared modules and notes regarding

module. Also we have taken daily assessment and assignments on module of each point in syllabus.

We have covered topic Electrochemistry for Physical Chemistry student of B.Sc. III- Sem- V. In last session we have taken Feedbacks from student. Finally, we conduct Test on complete topic and we issued certificate to those students who quality final test with minimum 70% marks.

List of participants:



First name	Surname	Email address	Phone	Mobile phone	Institution
Uttish Dc. Vivekanand	Bharat Vidyapeeth (Deemed to be University) Yashwantrao Chavan College of ABC, Pune	vivekanandbharat@gmail.com			
Zainab	Anant	zainabnani090@gmail.com			
Maha	Tharati	tharati09@gmail.com			
Uday D118	AMARPREET KAUR SARDHAWAL	amarpreetkaur@gmail.com			
Uday D112	Shalvi Maghad Tamwar	shalvi191@gmail.com			
Dr Rakles	Singh	draklesingh@gmail.com			
DR. MEGHNA UDAY PATHI	24013	megha090@gmail.com			
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megha	Patil	megha090@gmail.com			
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Sayali	Patil	sayali090@gmail.com			
Arya	Patil	arya090@gmail.com			
Karan	Patil	karan090@gmail.com			
Adarsh	Bile	adarsh090@gmail.com			
Prashant	Patil	prashant090@gmail.com			
Pravina	Mishra	pravina090@gmail.com			
Priyanka	Kulkarni	priyanka090@gmail.com			

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First name	Surname	Email address	Phone	Mobile phone	Institution
Pratiksha	Gokwad	pprati0417@gmail.co			
Pranav	Shank	pranavshank0219@gma			
Sejal	Mali	malisejal1546@gmail.c			
Aishwarya	Deshm	aishwaryakshu27@gma			
Kaushik	Zachar	kaushik10@gmail.com			
Sejal	Patil	sejalpatil77@gmail.co			
Serjant	Mora	serjantmora01@gmail.c			
Adarsh	Mali	adarshmalil18@gmail.c			
Sana	Patil	sanaipatil706@gmail.co			
Anshu	Sakhar	anshuhakhar@gmail.c			
Ranje	Kamode	ranjeekamode129@gmail			
Alank	Sarao	alankarsarao61@gmail.c			
Chitka	Shank	Chitka0499@gmail.co			
Vishal	Patil	vishalpatil181@gmail.co			
Tanmay	Nadaf	tanmayn@gmail.com			
pratham	patil	prathampatil2125@gm			
Nagya	Patil	patilnagya009@gmail.c			

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First name	Surname	Email address	Phone	Mobile phone	Institution
Komal	Patil	komalpatil1616@gmail.c			
Kajal	Sagol	sagolkajal366@gmail.co			
Ravi	Bhosle	ravibhosle5580@gmail.c			
Dhruv	Jadhav	dhruvdhruv0156@gmail			
Tejas	Bhat	tejasbhat706@gmail.co			
Rajesh	Shendge	rajeshshendge7072@gm			
Sejal	Patil	sejalpatil1256@gmail.co			
Dhruv	Mishra	dhruvmishra3198@gmail.c			
Sana	Patil	sanaipatil5271@gmail.co			
Sejal	Mora	sejalpatil2006@gmail.c			
Kajal	Patil	kajalpatil162@gmail.com			
Sanku	Chavan	sankuchavan2649@gmail			
Sejal	Patil	sejalpatil2124@gmail.c			
Komal	Shankar	komalshankar7648@gma			
Akanksha	Wagh	akankshawagh020000@g			
Utkarsh	Patil	patilutkarsh09@gmail.co			
Ranje	Patil	ranje24@gmail.com			

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First name	Surname	Email address	Phone	Mobile phone	Institution
Prajakta	Patil	pp04262810@gmail.com			
Ananta	Patil	anantapatil2100@gmail.com			
Ratna	Nalawade	ratna.jal@gmail.com			
Ratna	Patil	ratnajpatil190@gmail.com			
Manika	Bhat	manikabha449@gmail.com			
Saravali	Mate	saravali2000@gmail.com			
Sachin	Patil	sachinpatil10200@gmail.com			
Priyanka	Mehra	pryankameh150@gmail.com			
Nisha	Saravade	saravadeisha@gmail.com			
Gayatri	Jadhav	gayatri402@gmail.com			
Pratik	Jadhav	Pratik28@gmail.com			
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Hinguraj	Ahliwal	Hingurajahliwal@gmail.com			
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Swati	Chavale	swatichavale226@gmail.com			
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Ujjwal	Mishra	ujjwal7881@gmail.com			
Mayuri	Chavale	Mayurichavale44@gmail.com			
Rakshita	Patil	rakshapatil745@gmail.com			

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First name	Surname	Email address	Phone	Mobile phone	Institution
Ujjwal	Mishra	ujjwal7881@gmail.com			
Surya	Khandekar	Suryakhandekar2140@gmail.com			
Ajay	Mishra	ajay2792@gmail.com			
Aishwarya	Jadhav	aishwaryaj113@gmail.com			
Ratna	Bhat	ratnajbhat06@gmail.com			
Prathamesh	Patil	prathamesh505@gmail.com			
Ashika	Bhat	ashikabhat777@gmail.com			
Komal	Mali	komalmal166@gmail.com			
Manika	Mate	manikamate200@gmail.com			
Anil	Bhat	anilbhat4599@gmail.com			
Komal	Patil	komalpatil453@gmail.com			
Pratik	Jadhav	pratikjadhav155@gmail.com			
Ravish	Mate	ravishmate94@gmail.com			
Anil	Kadane	anilkadane2399@gmail.com			
Sachin	Chavale	sachincho23@gmail.com			
Ujjwal	Jadhav	Ujjwaljadhav10@gmail.com			

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Jeevan	Jadhav	jadhavjeevan74@gmail.com			
Vijay	Patil	Vijay2000@gmail.com			
Madhav	Jadhav	Madhavkati3@gmail.com			
Ajanta	Shank	Ajanta.shankar171@gmail.com			
Sonika	Sharma	sonikasharma20@gmail.com			
Sarika	Chavan	SarikaChavan212@gmail.com			
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Pratiksha	Shenai	pratikshashenai@gmail.com			
Murlihar	Mam	murlihar132@gmail.com			

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First name	Surname	Email address	Phone	Mobile phone	Institution
Ashika	Shenai	Ashikashenai52@gmail.com			
Rishabh	Jadhav	rishabhjadhav220@gmail.com			
Sarath	Patil	sarathpatil7230@gmail.com			
Nayesh	Patil	nayeshpatil160@gmail.com			
Ajanta	Shank	ajantashank177@gmail.com			
Soni	Bhale	sonibhale21@gmail.com			
Akhil	Adil	akhiladil907@gmail.com			
Shruti	Shankar	shrutishankar111@gmail.com			
Shubham	Barkhedar	shubhambarkhedar7319@gmail.com			
Shruti	Patil	shrutipatil99@gmail.com			
Vijay	Patil	vijaypatil2142000@gmail.com			
Saral	Sankhe	saralsankhe889@gmail.com			
Pallavi	Kamble	pallavikamble757@gmail.com			
Vandana	Patil	vandana2212@gmail.com			
Vandana	Patil	vandana2212@gmail.com			
Sani	Patil	sani2018@gmail.com			
Pallavi	Patil	pallavipatil202000@gmail.com			
Anjali	Mam	anjali247@gmail.com			
Prachi	Chavan	prachichavan917@gmail.com			

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First name	Surname	Email address	Phone	Mobile phone	Institution
Priyanka	Shankar	shankarpriyanka1544@gmail.com			
Prajakta	Patil	prajakta2003@gmail.com			
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Anshu	Patil	anshu120004@gmail.com			
MANISHA	PATIL	manishapatil442@gmail.com			
Pratik	Awate	Pratikawate190@gmail.com			
Pratiba	Dharkar	pratibadharkar111@gmail.com			
Ashish	Kharode	ashishashish2000@gmail.com			
Pooja	Wadgaonkar	Poojapoojapooja@gmail.com			
Ujwala	Patil	Patilujwala44@gmail.com			
Onkar	Waghmare	onkarwaghmare1295@gmail.com			
Ratna	Kharat	ratna.kharat1257@gmail.com			
Shubham	Patil	shubhampatil123@gmail.com			
Dhyanendra	Georgewill	dhyanendra1994@gmail.com			
Shreyas	Nigade	shreyasnigade@gmail.com			

Insights of Course:

Day 1:

ELECTROCHEMISTRY

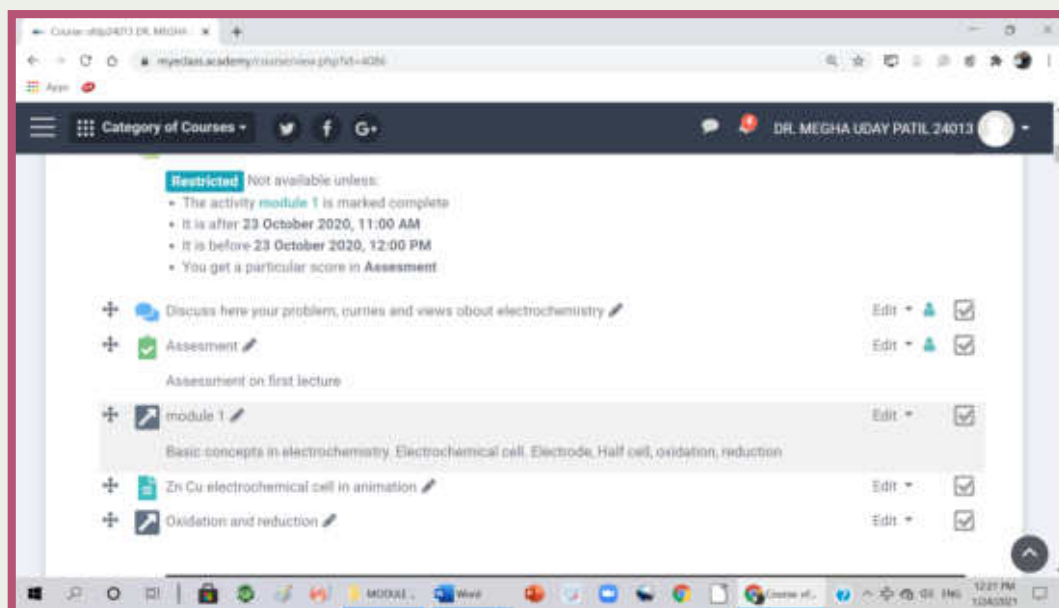
Dear Students This topic contains videos, notes, Assignment and Assessment on topic electrochemistry

- Assignment No. 1
- Attendance of module 1 on topic Electrochemistry
- Discuss here your problem, queries and views about electrochemistry
- Assessment
- module 1

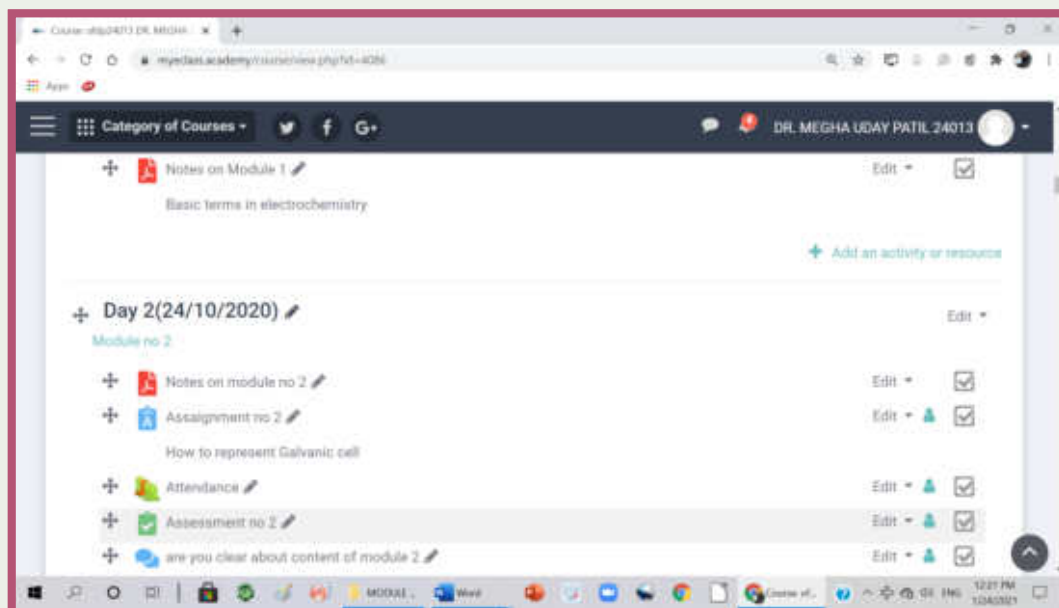
Restricted Not available unless:

- The activity **module 1** is marked complete
- It is after **23 October 2020, 11:00 AM**
- It is before **23 October 2020, 12:00 PM**
- You get a particular score in **Assessment**

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Day 2:

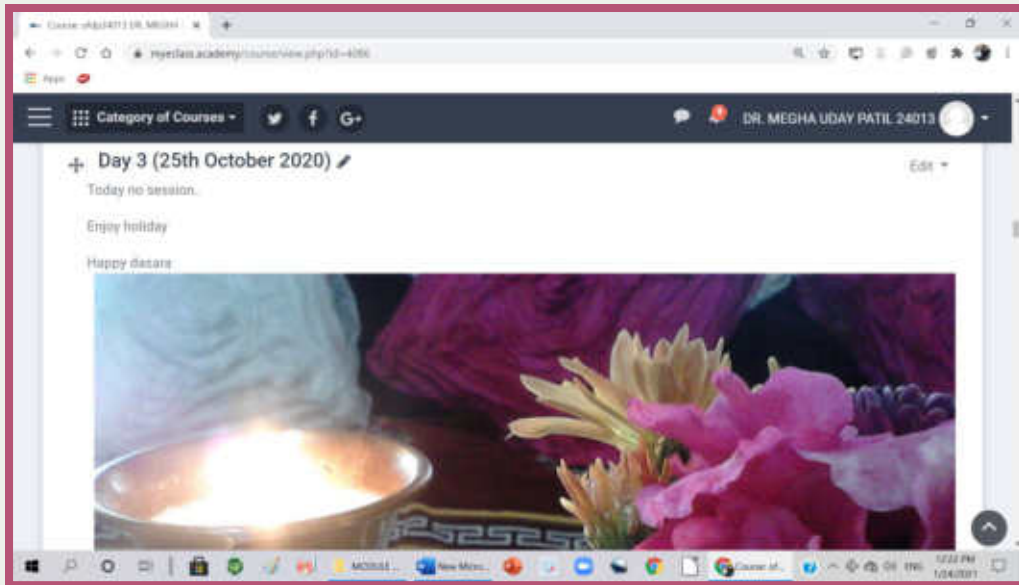


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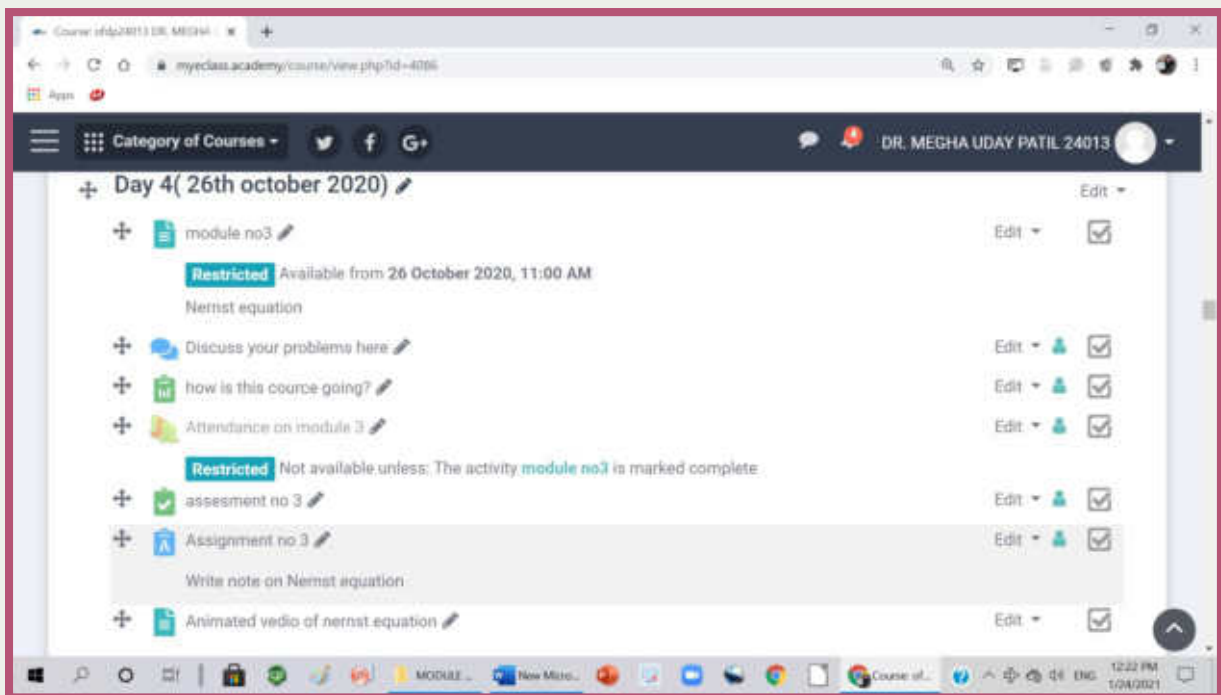
The screenshot displays a video player interface for a course by DR. MEGHA UDAY PATIL 24013. The video content shows a diagram of a galvanic cell. It consists of two half-cells connected by a salt bridge labeled "salt bridge, NaCl(aq)". The left half-cell contains a Zn anode (-) in a solution of Zn^{2+} and NO_3^- . The right half-cell contains a Cu cathode (+) in a solution of Cu^{2+} and NO_3^- . A voltmeter is connected between the two electrodes, showing a reading of 1.10. Arrows indicate the flow of electrons from the Zn anode to the Cu cathode. To the right of the diagram is a photograph of a metal rod that has been partially corroded, showing a porous, reddish-brown deposit on one end.

The screenshot displays a video player interface for the same course. The video content shows a blackboard with handwritten text. The text reads: "There are two types of electrochemical cells" followed by a numbered list: "1. ELECTROLYTIC CELLS" and "2. GALVANIC CELLS". A small logo of a blue lion is visible in the top right corner of the blackboard area.

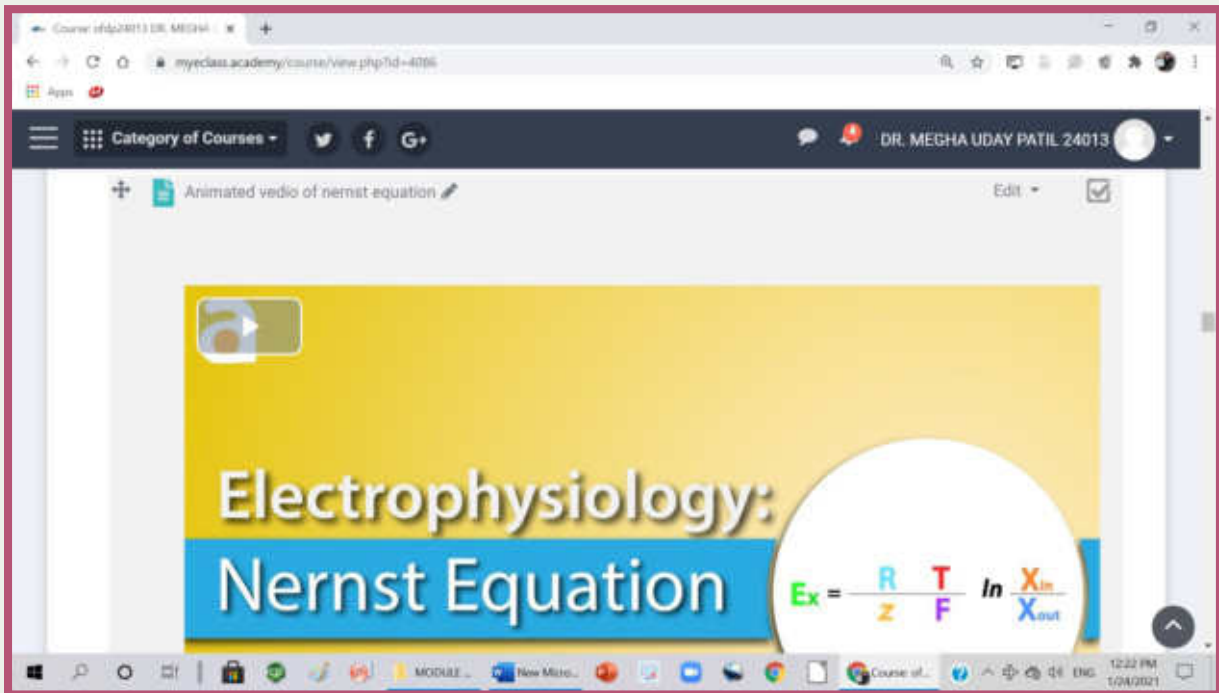
Day 3:



Day 4:



REPORT ON SUBJECTIVE COURSE CONDUCTED ON MOOC



Course: edp20013 DR. MEGHA UDAY PATIL 24013

Category of Courses

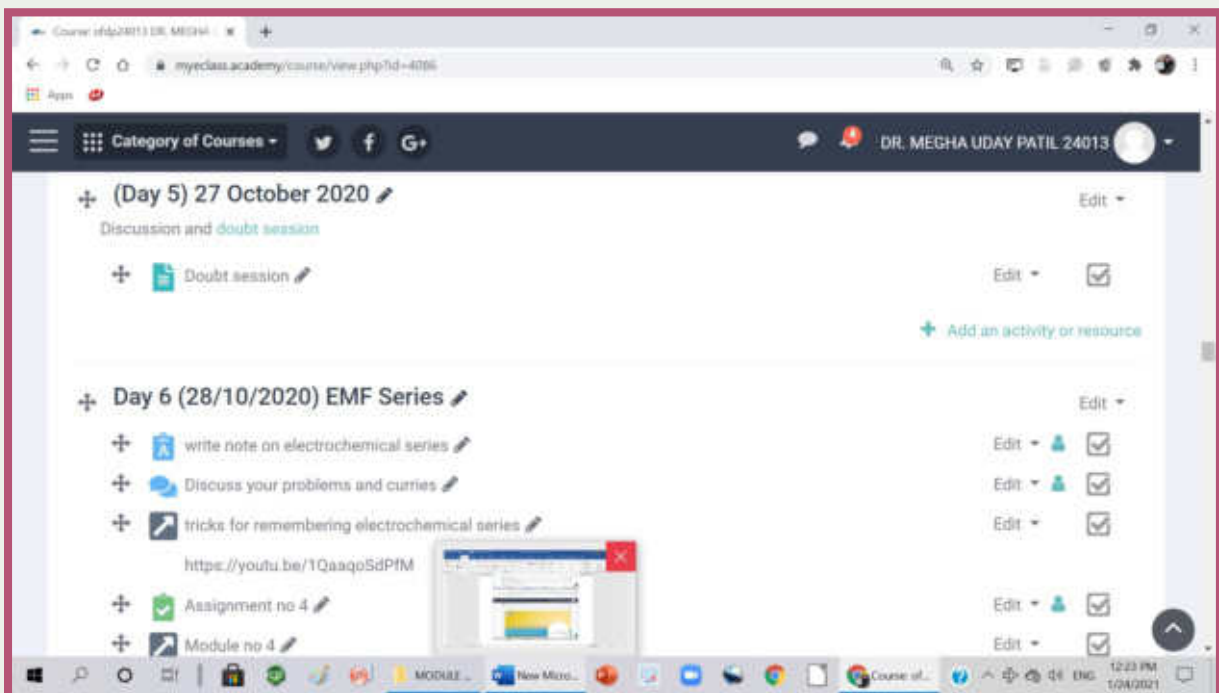
Animated video of nernst equation

Electrophysiology: Nernst Equation

$$E_x = \frac{R}{z} \frac{T}{F} \ln \frac{X_{in}}{X_{out}}$$

10:22 PM 1/31/2021

Day 5:



Course: edp20013 DR. MEGHA UDAY PATIL 24013

Category of Courses

(Day 5) 27 October 2020

Discussion and doubt session

Doubt session

Add an activity or resource

Day 6 (28/10/2020) EMF Series

- write note on electrochemical series
- Discuss your problems and queries
- tricks for remembering electrochemical series
<https://youtu.be/1QaaqoSdPFM>
- Assignment no 4
- Module no 4

10:23 PM 1/31/2021

Day 6:

The screenshot shows a Moodle course page for 'Day 6 (28/10/2020) EMF Series'. The page is viewed from the perspective of a user named 'DR. MEGHA UDAY PATIL 24013'. The course content includes:

- write note on electrochemical series
- Discuss your problems and curries
- tricks for remembering electrochemical series (with a YouTube link: <https://youtu.be/1Qaaqo5dPFM>)
- Assignment no 4
- Module no 4

Each activity has an 'Add an activity or resource' button and an 'Edit' dropdown menu with a checkmark icon.

Day 7:

The screenshot shows a Moodle course page for 'Day 7 (29/10/2020) types of electrode'. The page is viewed from the perspective of a user named 'DR. MEGHA UDAY PATIL 24013'. The course content includes:

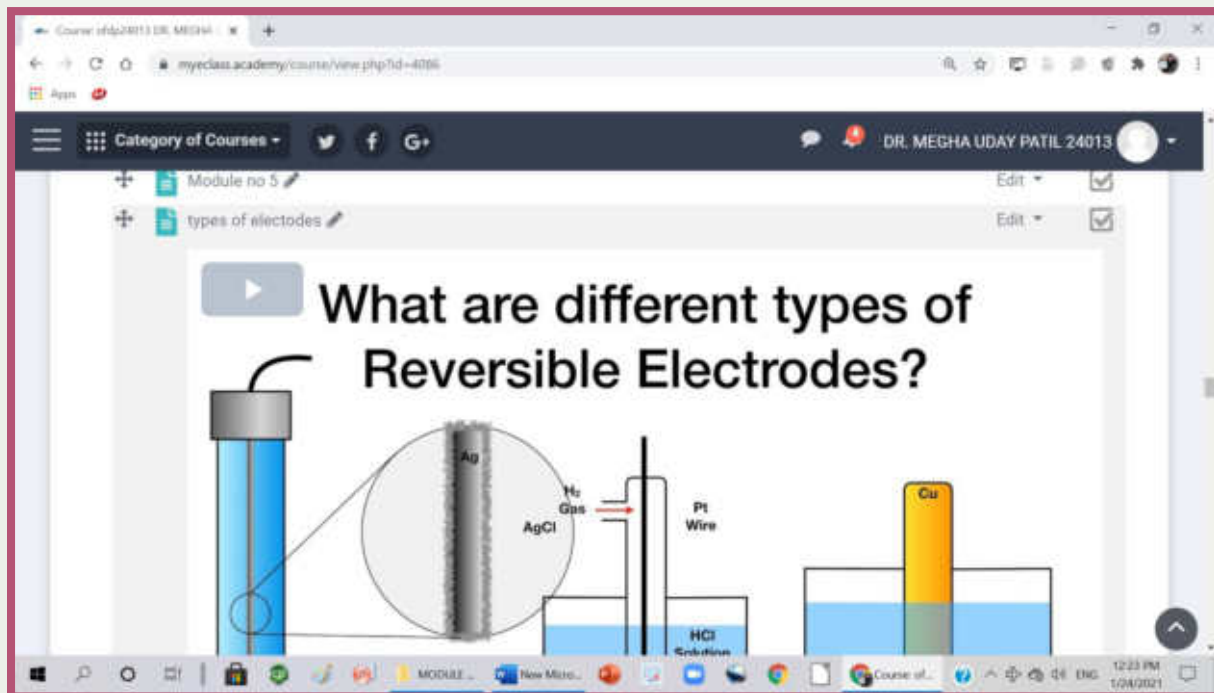
- Attendance (Restricted)
- Assignment no 5 (Write note on types of electrode in detail)
- Assesment no 5
- are you understand electromotive force topic on this platform of MyeClass
- Module no 5

The 'Attendance' activity is restricted and has the following conditions:

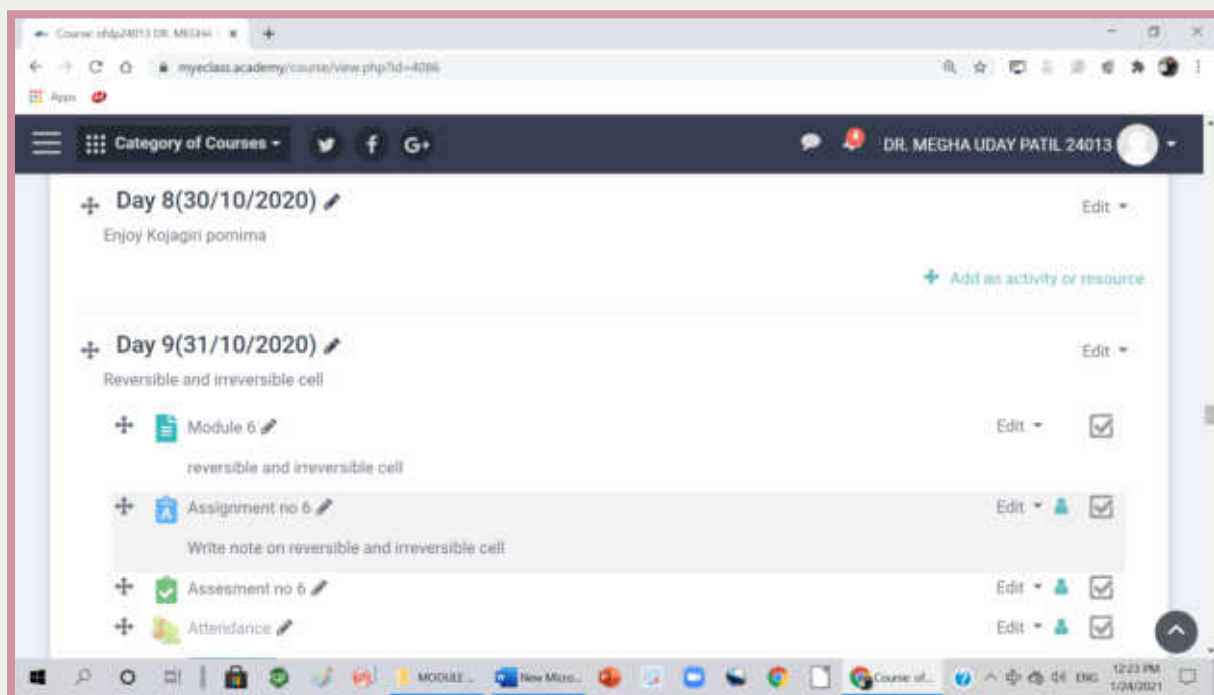
- The activity **Module no 5** is marked complete
- The activity **Assesment no 5** is marked complete
- You get a particular score in **Assesment no 5**

On module no 5(types of electrode)

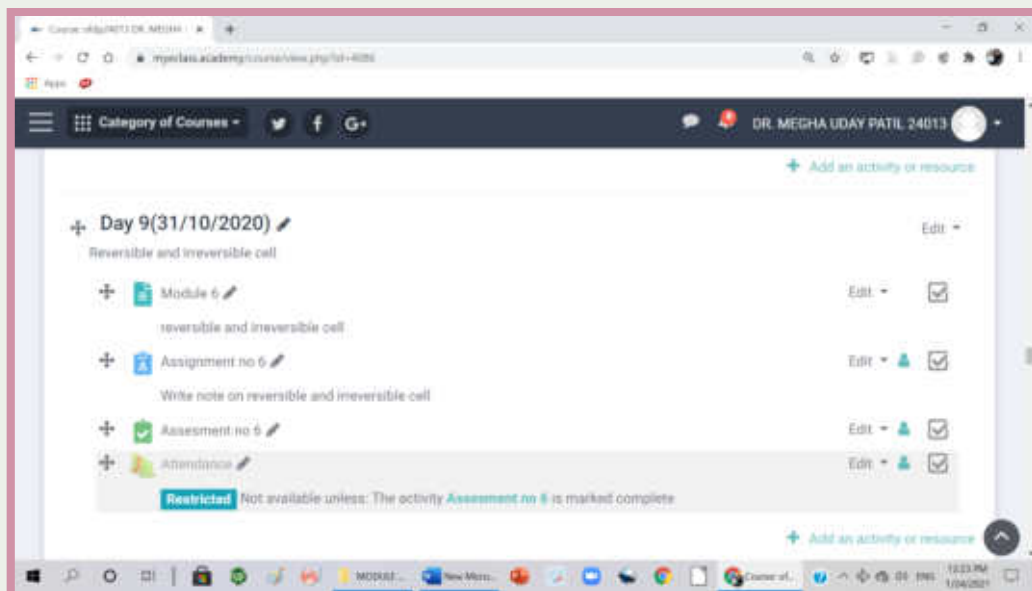
Each activity has an 'Add an activity or resource' button and an 'Edit' dropdown menu with a checkmark icon.



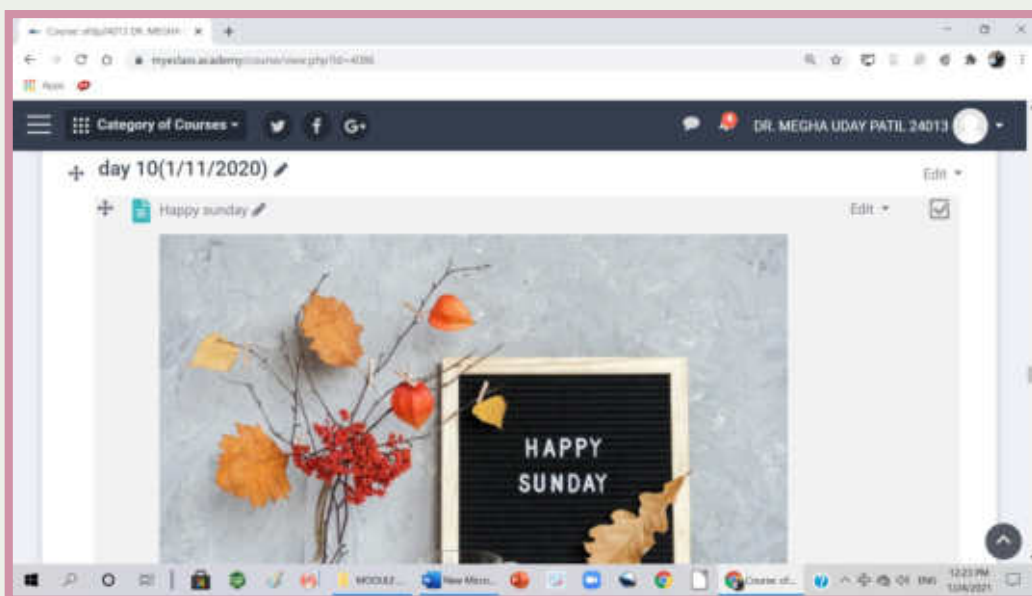
Day 8:



Day 9:



Day 10:



Day 11:

Day 11(03/11/2020)
Chemical cell without transference

Module no 7

CHEMICAL CELL WITHOUT TRANSFERENCE

Diagram of a chemical cell without transference:

$$\text{Pt} | \text{H}_2 (\text{g}, p) | \text{H}^+ | \text{Cl}^- | \text{Ag} | \text{AgCl}$$

Nernst equation for the cell:

$$Q_a = \frac{a_{\text{Ag}} \cdot a_{\text{HCl}}}{P_{\text{H}_2}^{1/2} \cdot a_{\text{AgCl}}}$$

Activity conditions:

$$a_{\text{Ag}} = a_{\text{AgCl}} = 1$$

Module no 7

Detailed diagram of the chemical cell:

H ⁺	Cl ⁻
H ⁺ Cl ⁻	H ⁺ Cl ⁻
HCl	HCl

Nernst equation for the cell:

$$Q_a = \frac{a_{\text{HCl}}}{P_{\text{H}_2}^{1/2}}$$

Assignment no 7
make note on chemical cell without transference

Attendance

Restricted Not available unless: The activity Module no 7 is marked complete

notes on chemical cell without transference

Day 12:

Course: if4p24013 DR. MEGHA

myclass.academy/course/view.php?id=4096

Category of Courses

DR. MEGHA UDAY PATIL 24013

+ Add an activity or resource

+ Day 12(4/11/2020) Edit

Discussion session on zoom meeting

+ Assignment no 8 Edit

+ Add an activity or resource

+ Day 13(7 November 2020) Edit

Electrolyte concentration cell without transference

+ Assignment no 9 Edit

Make a note on electrolyte concentration cell in detail.

+ Attendance Edit

12:24 PM 1/9/2021

Day 13:

Course: if4p24013 DR. MEGHA

myclass.academy/course/view.php?id=4096

Category of Courses

DR. MEGHA UDAY PATIL 24013

+ Day 13(7 November 2020) Edit

Electrolyte concentration cell without transference

+ Assignment no 9 Edit

Make a note on electrolyte concentration cell in detail

+ Attendance Edit

Restricted Not available unless: The activity [Electrolytic concentration cell without transference](#) is marked complete

+ Electrolytic concentration cell without transference Edit

Discuss here carries on electrolytic concentration cell without transference.

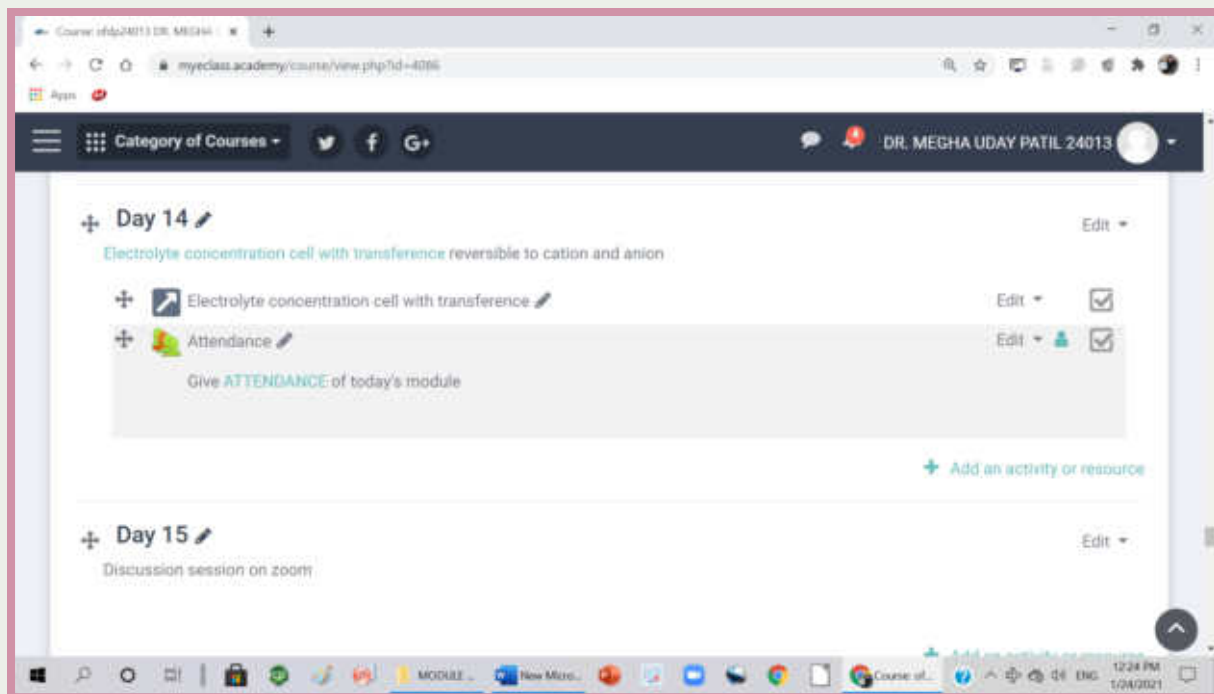
+ Module no 9 Edit

Cell - 1

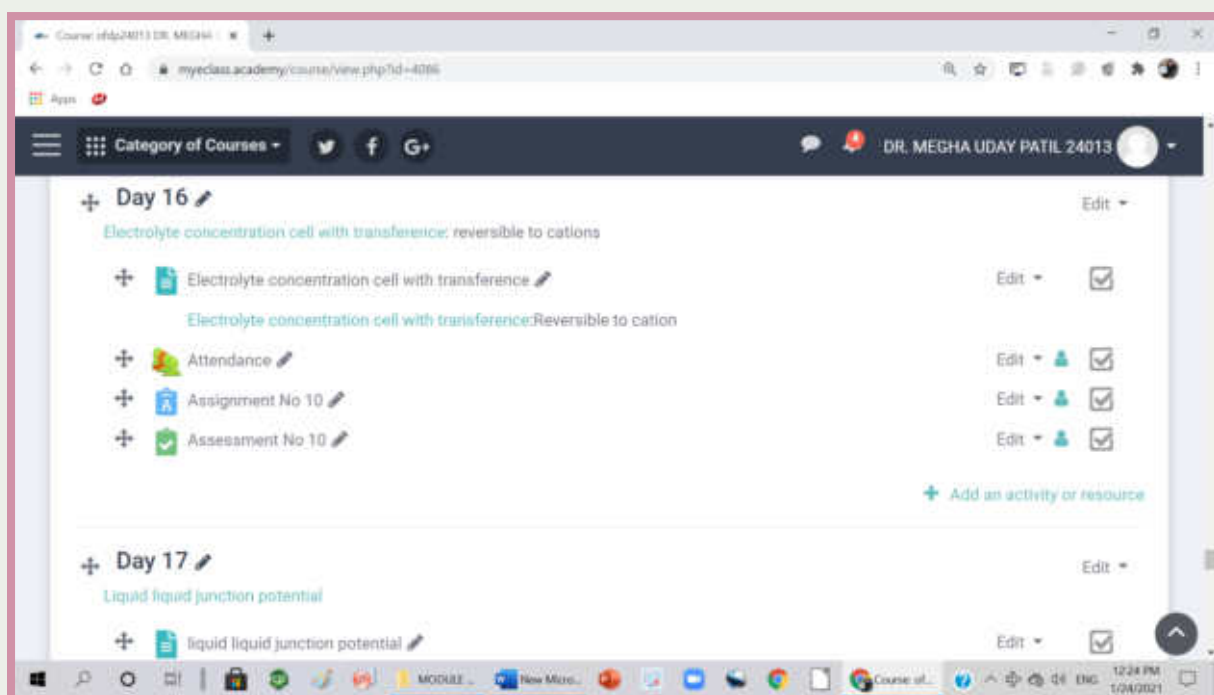
$W | H_2(g, 1 \text{ atm}) | HCl(aq) | AgCl(s) | Ag(s) || Ag(s) | AgCl(s) | HCl(aq) | H_2(g, 1 \text{ atm}) | W$

12:24 PM 1/9/2021

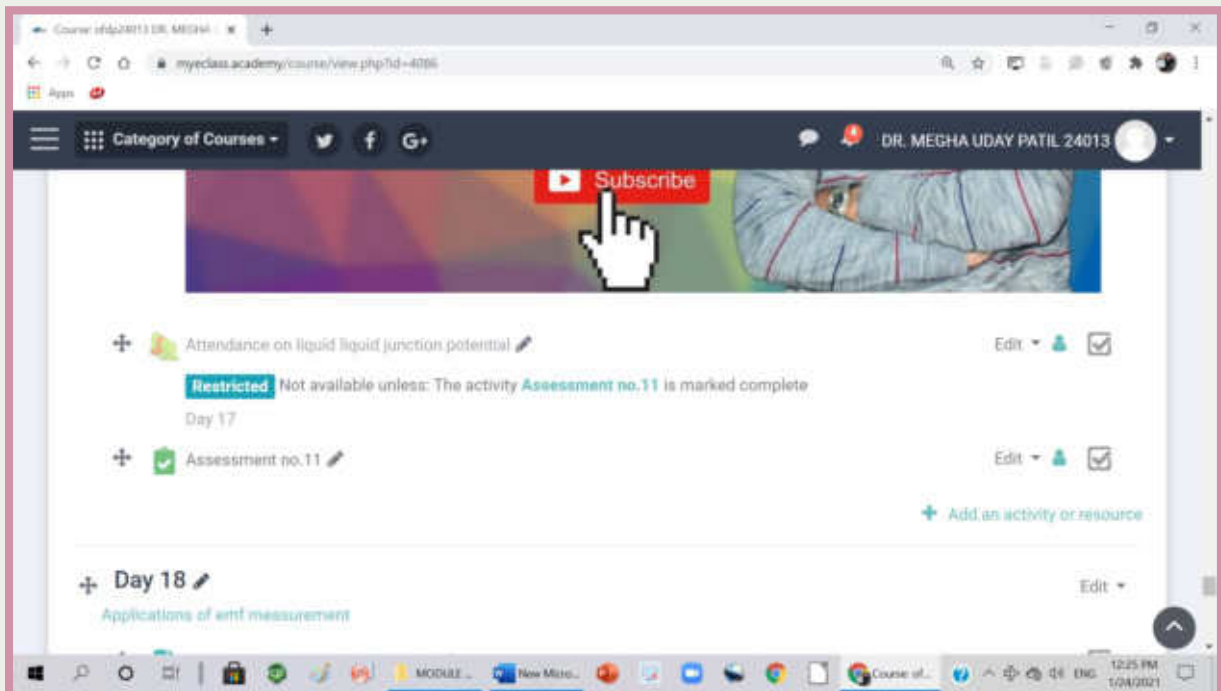
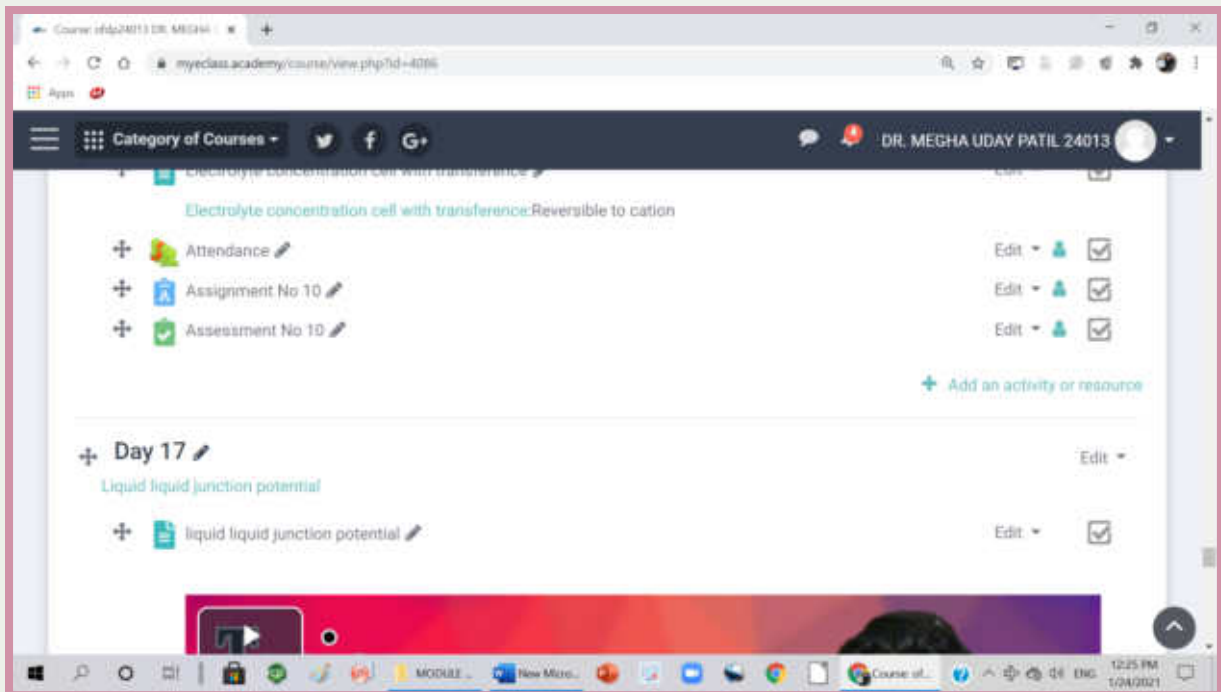
Day 14 & 15:



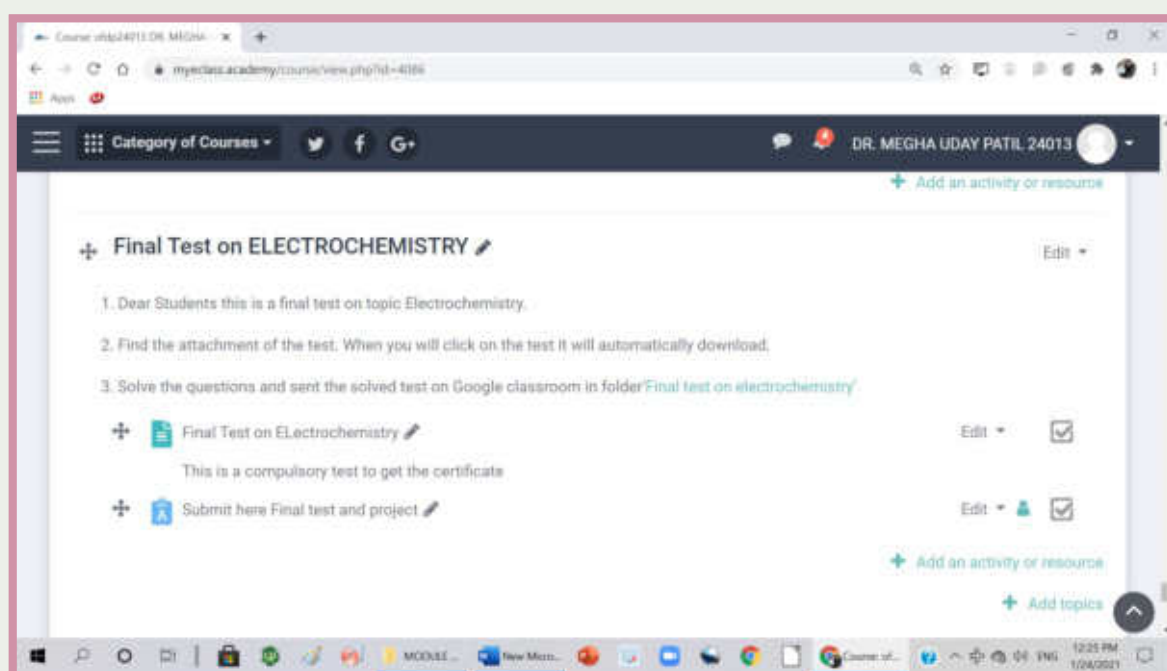
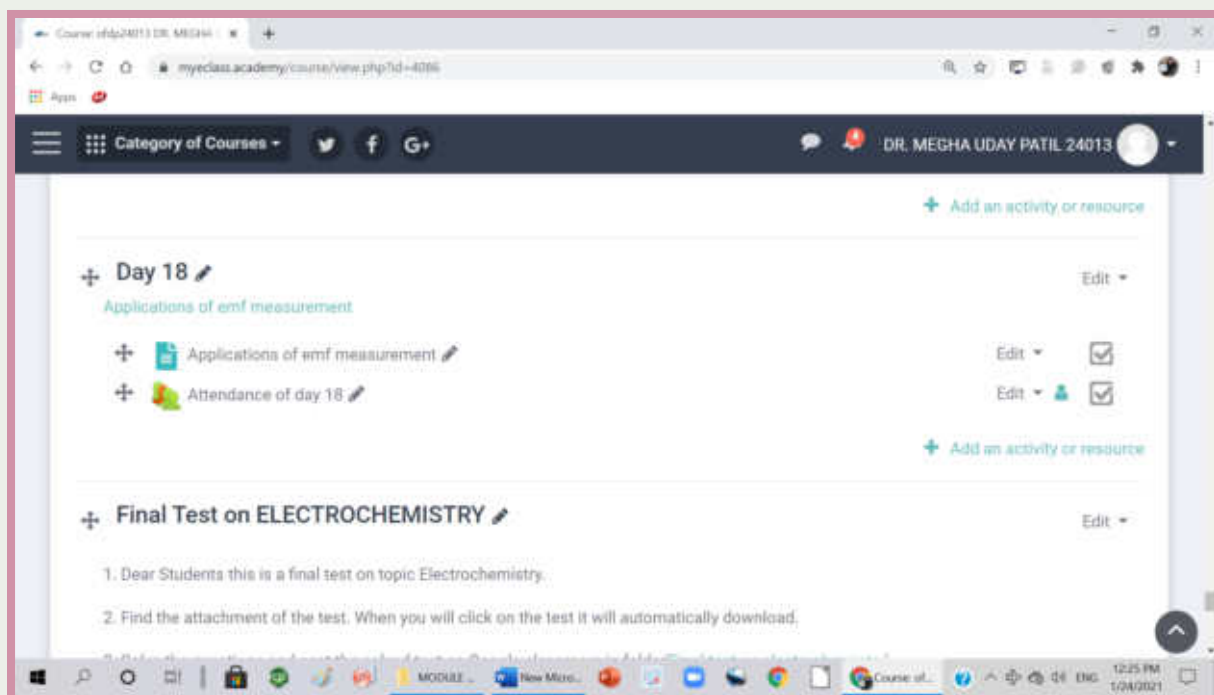
Day 16:



Day 17:

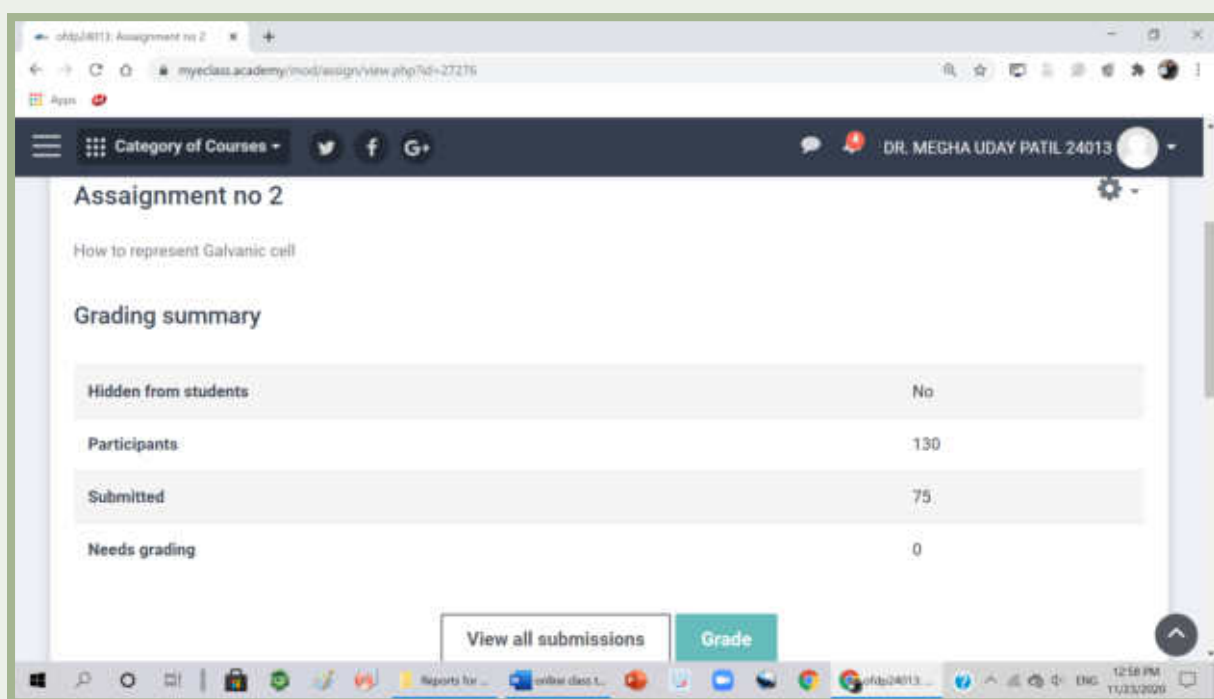
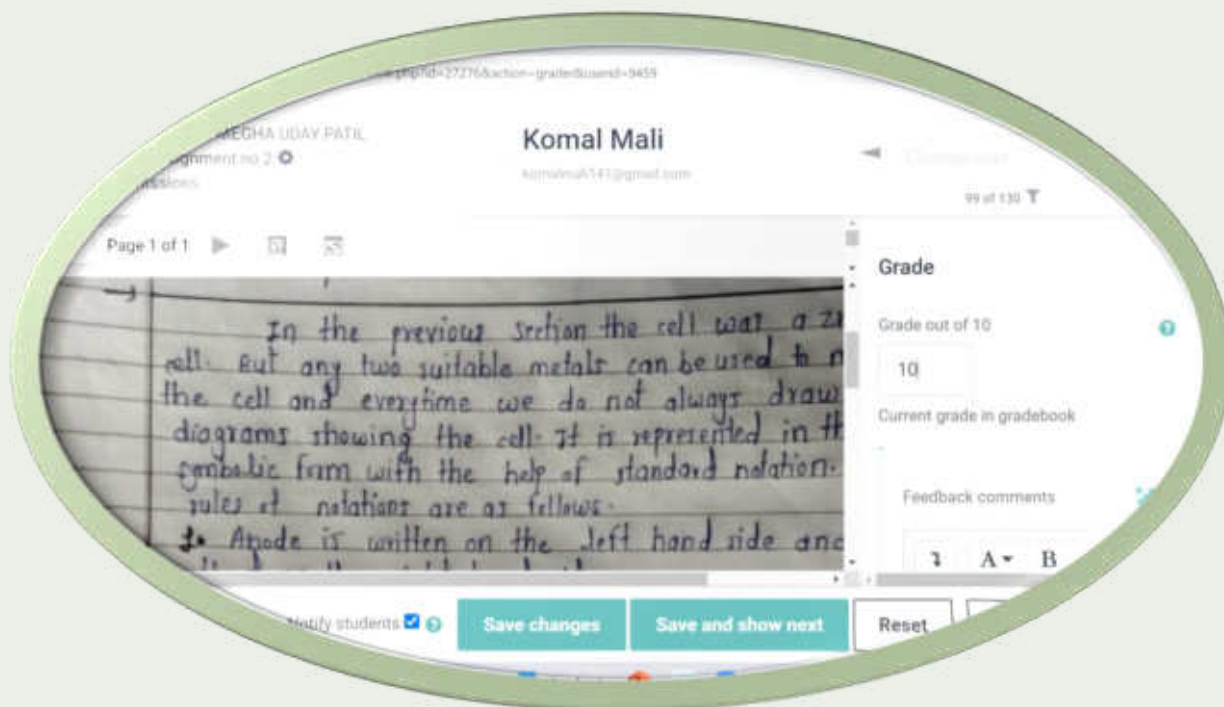


Day 18:

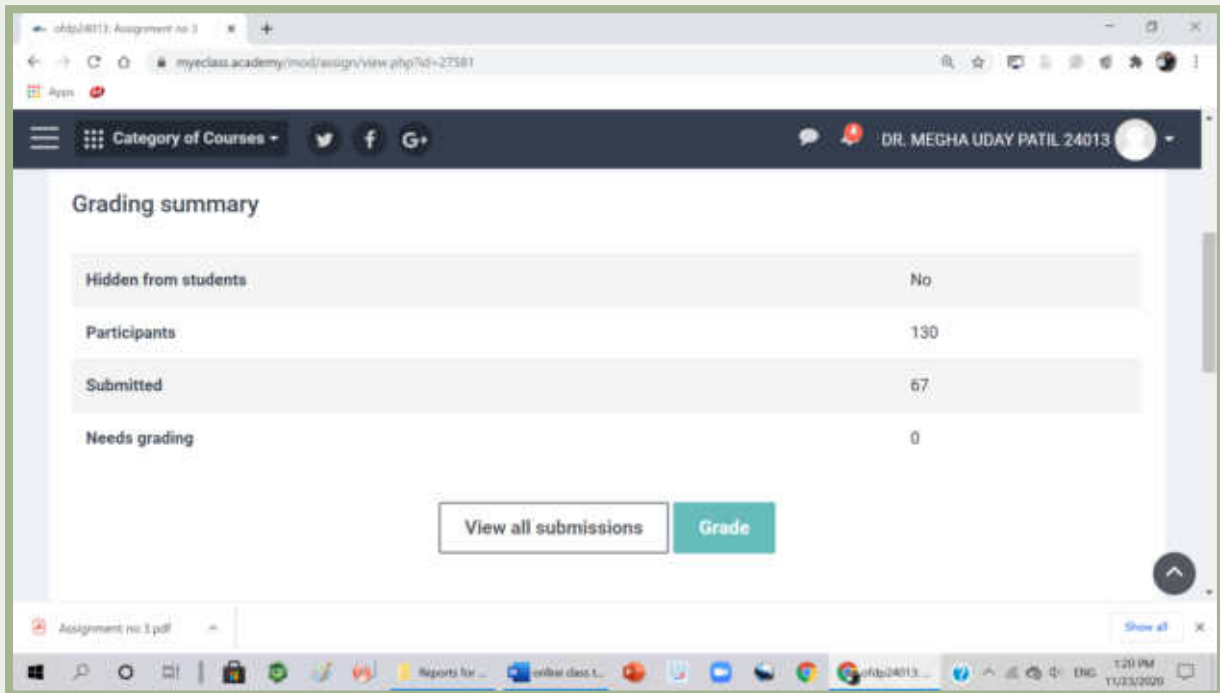


CLASS TEST AND ASSIGNMENTS TAKEN DURING COURSE:

Here we attached some screenshots of Checked Assignments conducted during course



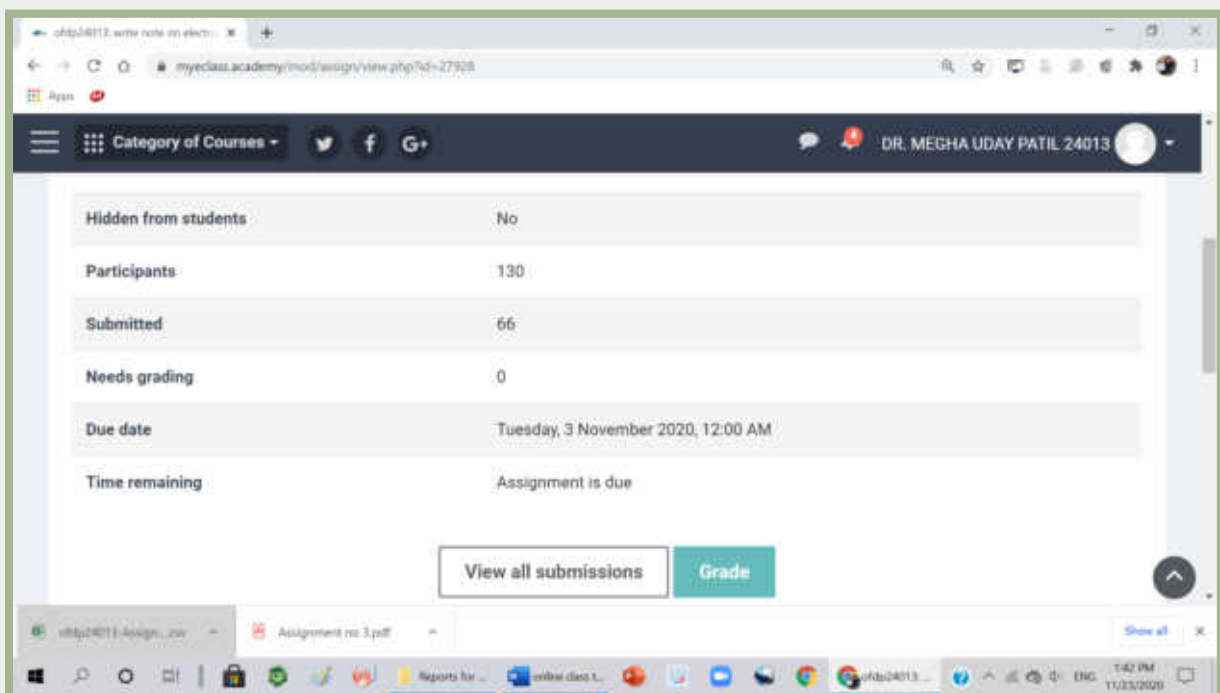
REPORT ON SUBJECTIVE COURSE CONDUCTED ON MOOC



This screenshot shows the 'Grading summary' page for an assignment on the myclass.academy platform. The page displays the following statistics:

Category	Value
Hidden from students	No
Participants	130
Submitted	67
Needs grading	0

At the bottom of the summary, there are two buttons: 'View all submissions' and 'Grade'. The browser's taskbar at the bottom shows the time as 1:01 PM on 11/23/2020.

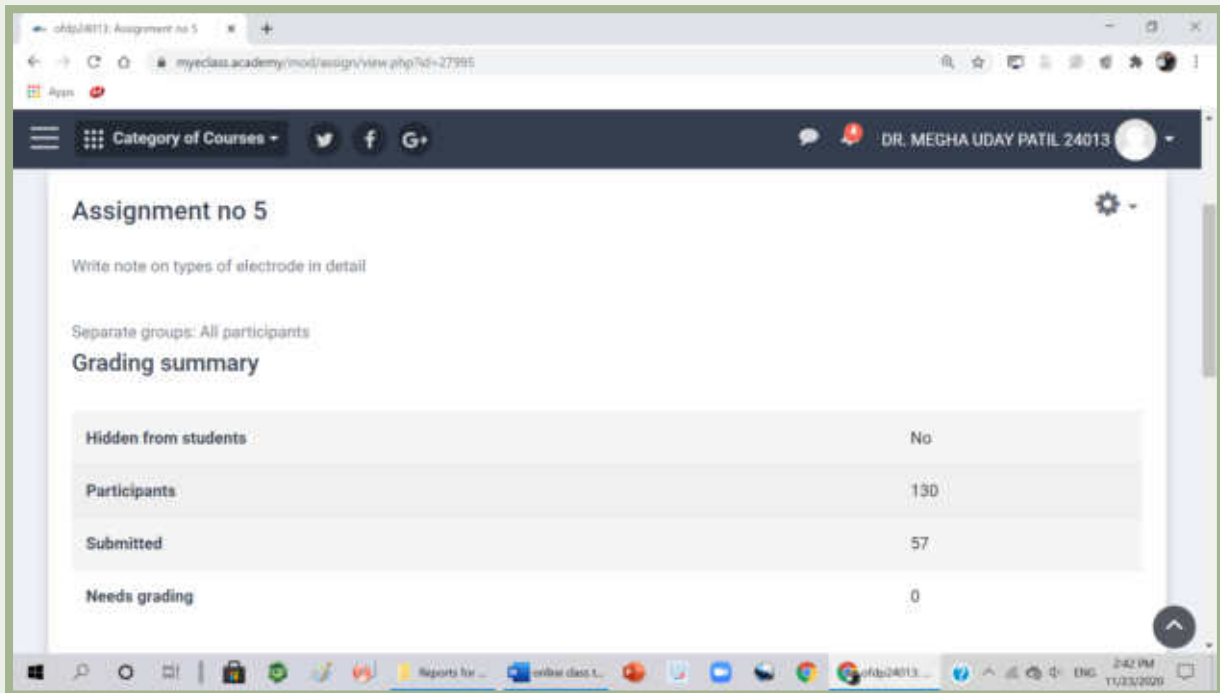


This screenshot shows the 'Grading summary' page for the same assignment, but with additional information. The statistics are:

Category	Value
Hidden from students	No
Participants	130
Submitted	66
Needs grading	0

Below the statistics, the 'Due date' is listed as 'Tuesday, 3 November 2020, 12:00 AM' and the 'Time remaining' is 'Assignment is due'. The 'View all submissions' and 'Grade' buttons are also present. The browser's taskbar at the bottom shows the time as 1:42 PM on 11/23/2020.

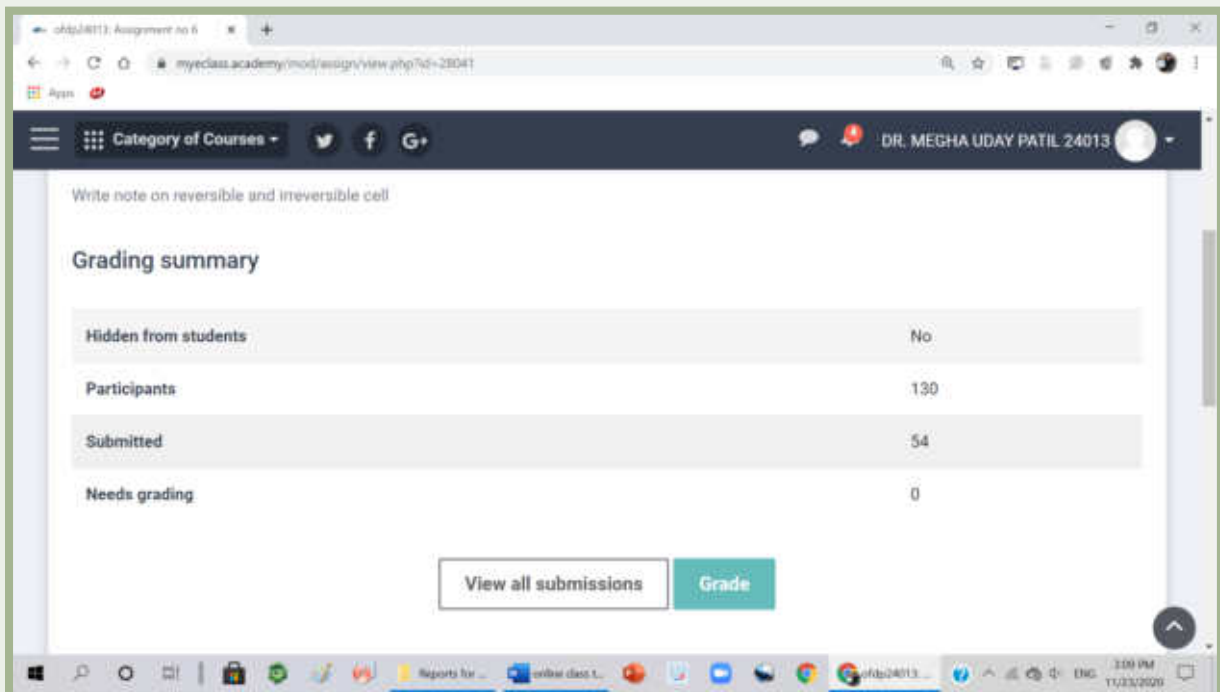
REPORT ON SUBJECTIVE COURSE CONDUCTED ON MOOC



The screenshot shows a web browser window displaying the 'Assignment no 5' page on the myclass.academy platform. The page title is 'Assignment no 5' and the instruction is 'Write note on types of electrode in detail'. The user is identified as 'DR. MEGHA UDAY PATIL 24013'. Below the instruction, it says 'Separate groups: All participants'. A 'Grading summary' table is displayed with the following data:

Category	Count
Hidden from students	No
Participants	130
Submitted	57
Needs grading	0

The browser's taskbar at the bottom shows the time as 2:42 PM on 11/23/2020.



The screenshot shows a web browser window displaying the 'Assignment no 6' page on the myclass.academy platform. The page title is 'Assignment no 6' and the instruction is 'Write note on reversible and inreversible cell'. The user is identified as 'DR. MEGHA UDAY PATIL 24013'. Below the instruction, it says 'Separate groups: All participants'. A 'Grading summary' table is displayed with the following data:

Category	Count
Hidden from students	No
Participants	130
Submitted	54
Needs grading	0

At the bottom of the grading summary, there are two buttons: 'View all submissions' and 'Grade'. The browser's taskbar at the bottom shows the time as 1:00 PM on 11/23/2020.

REPORT ON SUBJECTIVE COURSE CONDUCTED ON MOOC

make note on chemical cell without transference

Grading summary

Hidden from students	No
Participants	130
Submitted	42
Needs grading	0

View all submissions Grade

CERTIFICATES ISSUED TO STUDENT:



Report Submitted by,

Dr. Megha U. Patil
Assistant Professor in Chemistry