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2.5. Evaluation Process and Reforms

2.5.1. Mechanism of internal assessment
2.5.2. Mechanism to deal with internal examination

DEPARTMENT OF CHEMISTRY

গড়গাঁও মহাবিদ্যালয়
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A. Minutes of departmental meeting regarding internal assessment (Odd Sem)

Dept. Meeting

Date: 11-04-23

A meeting of the HODs has been held with Principal. following are the important points:

1) Sessional exam: 25, 26, 27, 28th of April, 2023
2) Rectification of Academic Audit
3) Notice from head for - Qn paper setting, date of subm, copy checking.
4) Q. paper: In university pattern - 1 copy to submit to VP
5) Format note to be changed from IQAC + office.
6) 10 publications per Teachers every 5 years.
7) Paper from each faculty in Int. Conference.
8) Modified PPT before ext. academic audit. presentation
Tentative date - 8th May
9) Everyone needs to participate in Bihu celebration.
10)

Signatures:

1) Anna Gogoi. 11/4/23
2) Rituraj Taur 11/4/23
3) Pabitra Begum. 11-4-23
4) Saheen S. Begum 11/4/23
5) Plaban J. Sarma 11/4/23

Department meeting.

Date: 24/10/22 Time: 2 pm

A Department meeting was organised on 24th October, 2022 at 2 pm to discuss about students seminar.

The following decision has been taken.

(1) The seminar will be conducted on 28th/10/22 for 5th sem, 31/10/22 for 3rd Sem and on 1/11/2022 for 5th Sem.

(2). There will be group discussion for 1st Sem and 3rd Sem generic elective students.

(3). The seminar topic will be provided on before 25th October to Students.

Signature

(1) Asra Ghazi.

(2)

(3) Rituraj Talukdar

(4) Saheer Shehraz Begum Saheer

(5). Plaban Jyoti Sarma

(6) Pakiza Begum.

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B. Departmental timetable of internal examination

Sessional Exam, Nov. 22, Odd semester.

Session: 2022

1st, 3rd & 5th Semester (SCIENCE)

Total Marks = 40 | Time: 1 hrs. 30 minutes

Date / Day	Time			
	9:00 AM - 10:30 AM	10:40 AM - 12:10 PM	12:20 PM - 1:50 PM	2:00 PM - 3:30 PM
11-11-2020 FRIDAY	1st Semester CC I - DR	3rd Semester CC V - DR	5th Semester CC XI - DR	5th Semester DSE 1 - DR
12-11-2020 SATURDAY	1st Semester AECC 2 - DR M: 2.5x = 40 [illegible]	1st Semester CC II - DR	5th Semester DSE 2 - DR	5th Semester CC XII - DR
	GE 3			
14-11-2020 MONDAY	MATHEMATICS - DR PHYSICS - DR CHEMISTRY - DR ZOOLOGY - DR BOTANY - DR	3rd Semester CC VI - DR		1st Semester AEC C 1 SCIENCE - RN. 03, 04, 05, 06, COMMERCE - RN. 07
	GE 1			3rd Semester SEC
16-11-2020 TUESDAY	GEOLOGY - DR STATISTICS - DR MATHEMATICS - DR PHYSICS - DR CHEMISTRY - DR ZOOLOGY - DR BOTANY - DR	3rd Semester CC VIII - DR		Web Design - RN. 01, 04 Travel & Tourism - RN. 06, 08, 10, 12 Library Info. - RN. 12 NSS - CCM Yoga, sports / Extra Curr.

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Sessional Examination-2023

Gargaon College

2nd,4th & 6th Semester.(Science)CBCS

Date	9:00 AM- 10:30 AM	10:40 AM- 12:10 PM	12:20 PM- 1:50 PM	2:00 PM- 3:30 PM
Tuesday 25/04/23	2nd Sem C-3 DR	4th Sem C-8 DR	6th Sem C-13 DR	6th Sem DSE-3 DR
Wednesday 26/04/23	4th Sem C-9 DR	6th Sem C-14 DR	2nd Sem C-4 DR	
Thursday 27/04/23	GE-2 Geology-DR Statistics-DR Mathematics-DR Physics-8 Chemistry-11 Zoology-DR Botany-DR	6th Sem DSC-4 DR	4th Sem C-10 DR	2nd Sem EVS-AECC-3 Sci-3,4,5,6. Comm-7. Arts-8,9,10,11,12, 13,14, 15.
Friday 28/04/23	GE-4 Geology Statistics Mathematics Physics Chemistry Zoology Botany			4th Sem(SEC) Web Design- 3,4. Travel & Tour-8,9 10,12. Library info-11 NSS-ICM Vermi Comp- Zoo Deptt. Enterp. Dev-5

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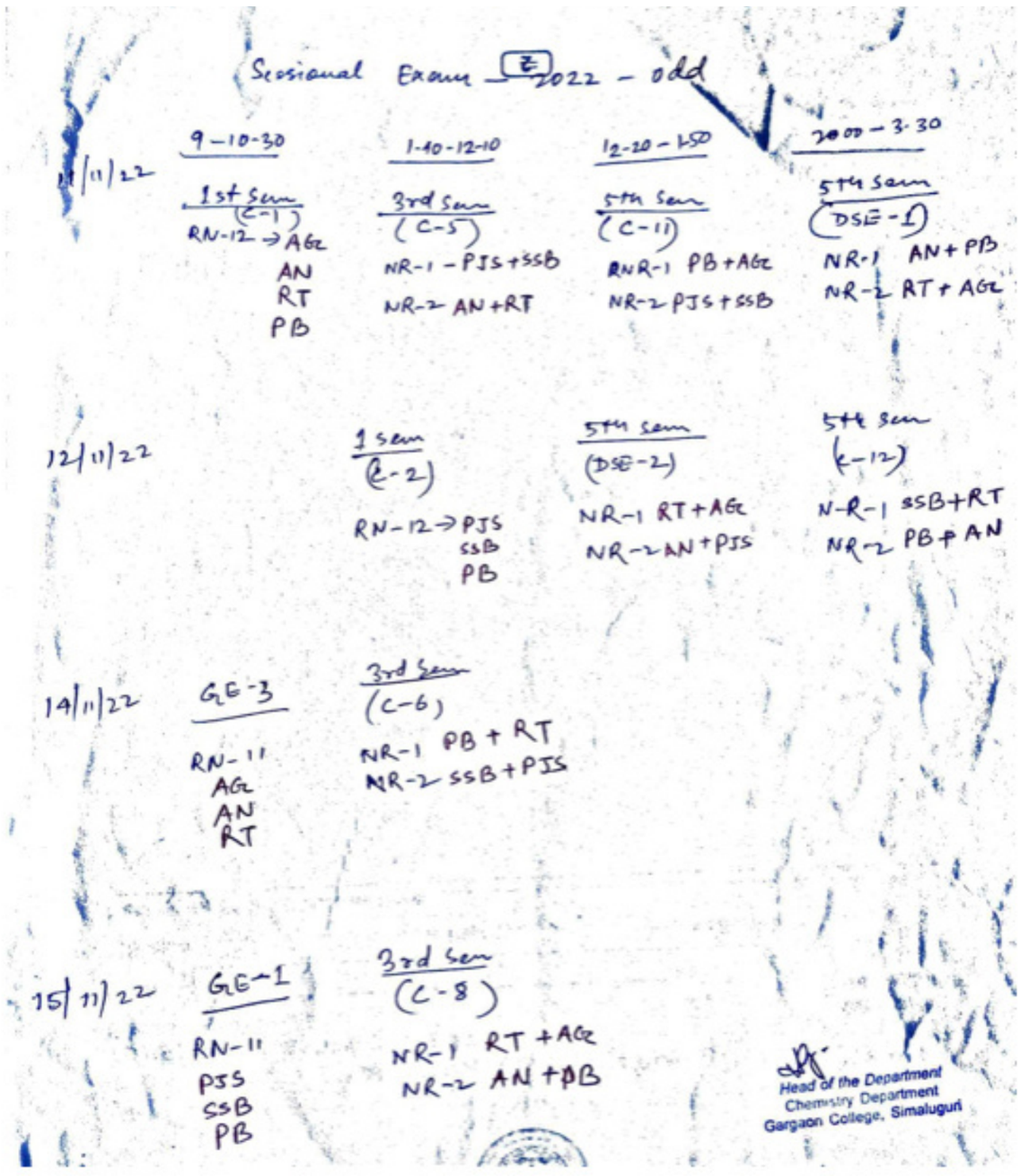
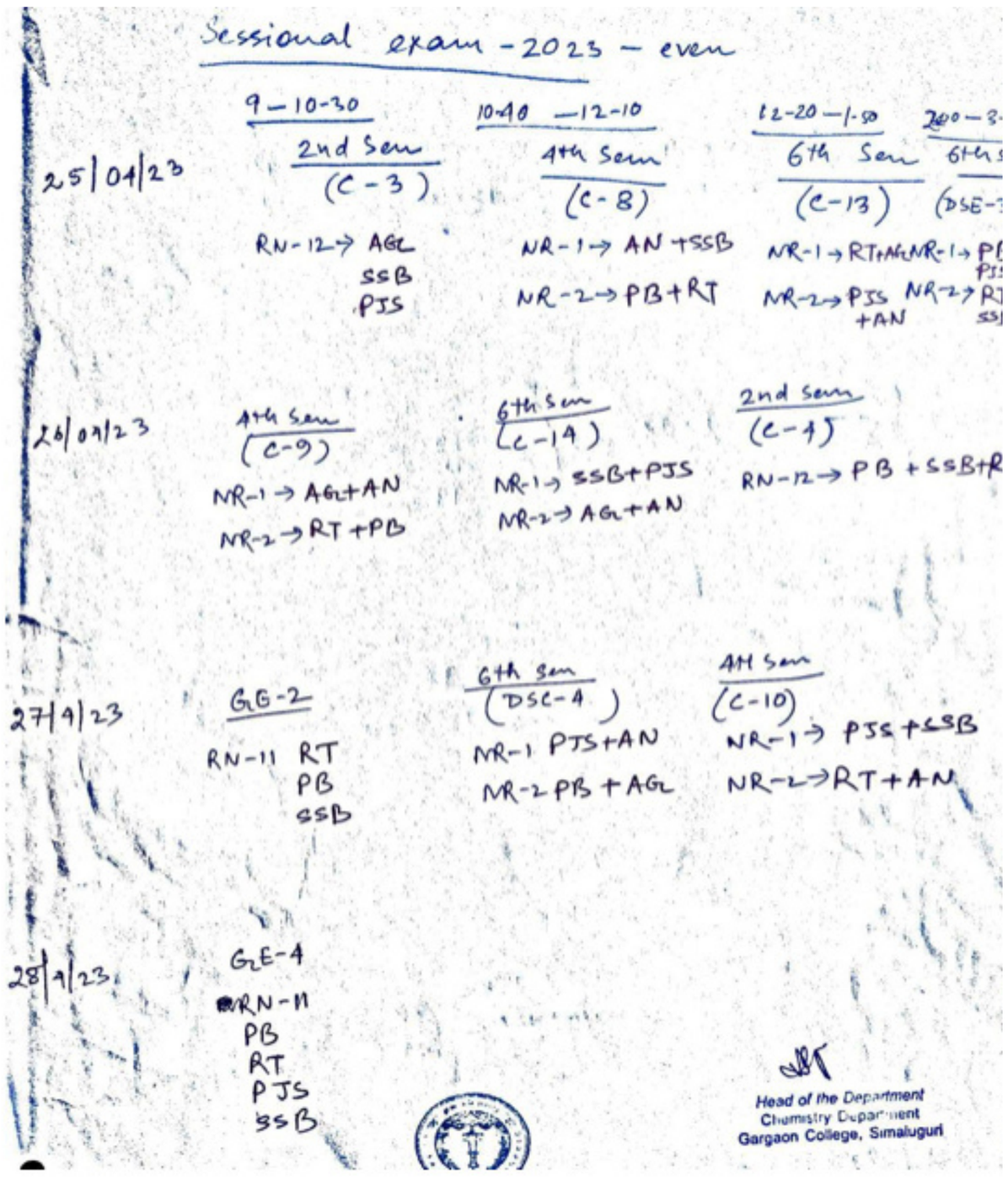
C. Distribution of exam duties



Odd semester- 11th to 15th October, 2022



Even semester- 25th to 27th Arpril, 2023

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D. Students' seminars

Topics of seminars

B.Sc. 1st Semester 28/10/2022 Seminar

Sl	Topic	Roll No.	Marks
1	Applications of Bohr's theory in the origin of hydrogen spectrum	150	D
2	Buffer solution		
3	Cleaning action of detergents	287	A
4	Common ion effect	35	B
5	Critical constants and van der Waals constants	159	C
6	crystal system and Bravais lattices	158	A
7	Defects in crystals		
8	Deviation of real gases from ideal behaviour		
9	Difraction patterns	173	A
10	Explain Megnetic quntum number	58	B
11	Fajan's rule, polarizing power snd polarizibility	145	C
12	Glasses and liquid crystals	161	C
13	Helsenbarg Uncertanity Priciple with example	167	A
14	Hund's rule of maximum multiplicity	123	A
15	Isotherm of idal gases as compared to van der Waals isotherm	144	B
16	Born Haber cycle and its applications	125	B
17	Law of corresponding states	179	B
18	Lewis concept of covalent bond with examples	254	B
19	Limitaitions of Bohr's theory	140	B
20	MOT with examples	138	A
21	Pauli exclusion principle		
22	Salt hydrolysis: Salts of weak acid and strong base	264	A
23	pH		
24	Pribability and its significance	106	B+
25	Quantum nubers with examples	118	B
26	Viscosity of liquid		
27	Verification of de-Broglie equation		
28	Valence bondtheory with examples showing hybridization	147	A
29	The Aufbau principle	278	A+
30	Symmetry elements and operations	114	A
31	Surface tension of liquid	268	B
32	Resonance and resonance energy with example	233	A
33	VSEPR theory with examples		
34	Wave function and significance in Schrodinger equation	183	B+
35	X-ray difraction and Bragg's Law		

28/10/2022

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Topics of seminars

3rd Semester Seminar — Date: 31/10/2022

		Roll No		
1	Why Cl has higher electron affinity than F			
2	Water-chloroform-acetic acid system	315		
3	Structure of diborane	21		
4	Structural elucidation of XeF2	131		
5	Steady state approximation	92		
6	Second order chemical reaction	264		
7	Reimer- Tiemann Reaction and Kolbe- Schmidt reaction	143		
8	Reactions of Alkali earth metals	159		
9	Reactions of 1°, 2°, 3° alcohols			
10	Reaction of Alkali metals	100		
11	Preparation of 1°, 2°, 3° alcohols	334		
12	Preparation methods of phenols	161		
13	Preparation and reaction of Dihydric alcohol	304		
14	Preparation and reaction of cresol	72		
15	Preparation and reaction of Borane compounds	166		
16	Phase diagram of Eutectic system with eg	107		
17	Aldol condensation reaction	288		
18	Application of Clausius-Clapeyron equation to S-L, S-V, and L-V equilibria			
19	Backman rearrangement reaction			
20	Boraziae, its preparation and reaction	191		
21	Boron Nitride, its preparation and application			
22	Bouvcault- Blance Reduction and Pinacol-Pinacolone Rearrangement	25		
23	canizaroo reaction	320		
24	Chain reaction	194		
25	Fries Rearrangement and Claisen Rearrangement	323		
26	Enzyme Catalysis and Michaelis-Menten mechanism	270		
27	Diagonal relationships between Lithum and magnesium	327		
28	Diagonal relationships between Boron and Silicon	50		
29	Diagonal relationship between Berylluim and Aluminium	85		
30	Determination of order of a reaction	23		
31	Bronsted Lowry and bronsted autoionization-advance and disdvantage	8		
32	Defination: Arhenious, Lux flood and their advatages abd limitations	330		
33	Consecutive reactions	326		

34	Compounds of nobel gases	90		
35	Classification of acid and bases as hard and soft	336		
36	Gibbs-Duhem-Margules equation and its applications to fractional distillation of binary miscible liquids	308		
37	HSAB priciples and its application	30		
38	Lever rule and partial miscibility of liquids	103		
39	Mechanism of solid surface catalysis	167		
40	Nernst distribution law	168		
41	Opposing reaction	112		
42	Order and molecularity of chemical reactions	84		
43	Parallel reaction			
44	parkin consdensation reaction			

8/11/2022

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Topics of seminars

5th Semester Seminar

		Roll No.	Grade
1	Anharmonicity in vibrational spectra	220	A+
2	Beer-Lambart law and its application	189	A
3	Biominimetic, multifunctional reagents & Proliferation of solventle:	275	A-
4	Biosynthesis of protein	70	A
5	Commutation rules	4	A
6	Effect of isotopic substitution in rotational spectrum	257	A-
7	Explain TGA graph with an example	266	A+
8	Flame atomic absorption and emmision spectroscopy	292	A+
9	Fundamental frequency Overtone and Hot bands	219	A
10	Instrumentation of TGA	217	A+
11	Introduction, classification and characteristics of enzymes and factc	207	A+
12	IR spectroscopy	165	A
13	Microwave and ultrasonic assisted reaction & Green Synthesis of fe	353	A
14	P, Q, R branches	142	A
15	Particle in two dimensional box	169	A
16	Phenomenon of inhibition (competitive, uncompetitive and non-co	72	A+
17	Principle and application of TGA	298	A
18	Rigid rotator model of rotation of diatomic molecules	139	A+
19	Simple Harmonic Oscillator	141	A+
20	Types of thermal methods of analysis		
21	UV-visible spectrometry	110	A+

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Topics of seminars

Seminar Topic for 2nd Semster (II): 2023

II (H)

Department of Chemistry

Sr. No.	Topic	Prof. N.	Roll No	
1	Bond energy, bond dissociation energy and resonance energy	AG		ab
2	Carnot cycle	AG	150	Repeat.
3	Change in thermodynamic functions in mixing of ideal gases	SSB		ab
4	Concept of heat, work and internal energy	AG	35	B
5	Criteria of thermodynamic equilibrium	SSB	183	B
6	Curly arrow rules, formal charges	RT	114	B
7	Dependence of thermodynamic parameters on composition	SSB	167	
8	Designations of stereoisomers: D/L, R/S and E/Z	AN	140	B
9	Electrophiles and Nucleophiles; Nucleophlicity and basicity	RT	43	B
10	Electrophilic additions HBr to alkene (Markownikoff/ Anti Rule)	AN	58	ab
11	Extensive properties and Partial molar quantities	SSB	147	B
12	First law of thermodynamics	AG	161	B
13	Free radical substitutions reaction to alkane	AN	254	ab
14	Geometrical isomerism	AN	264	ab
15	Gibbs-Duhem equation	SSB	287	ab
16	Heat Capacity	AG	247	ab
17	Heat of reactions	AG	106	ab
18	Homolytic and Heterolytic fission with suitable examples	RT	158	B
19	Hyperconjugative effect and their applications	RT	268	B
20	Ideal mixtures and their chemical potential	SSB	173	B
21	Inductive and electromeric effect	RT	179	B
22	Racemic mixture and resolution of enantiomers	AN	278	ab
23	Representation of organic molecules in two & three dimensions	AN	148	145 B
24	Resonance effect	RT	123	B
25	Saytzeff and Hofmann eliminations	AN	138	ab
26	Shape and their relative stability of Carbocations, Carbanions	RT	159	ab
27	Thermodynamic processes	AG	118	ab
28	Types of Equilibrium	SSB	171	B

HOD

Saluse

10/04/2027

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Seminar topics for 4th semester, 10th April 2023

Seminar Topic for 4th Semster (II): 2023

S.N.	Topic	F.N.	Roll No.
1	Heterocyclic Compound Pyrrole	AN	
2	Application of EMF measurements in determining equilibrium	SSB	100
3	Application of relativistic effects on transion metals	PS	315
4	Application of transion metals in catalysis	PS	326
5	Aromaticity and substitution reaction 5-numbered and 6 membered	AN	92
6	Arrhenius theory of electrolytic dissociation	AG	288
7	Carbylamine reaction	RT	107
8	CFSE in weak and strong fields	PB	191
9	Colour of transion metals	PS	167
10	Conductivity	AG	102
11	Crystal field theory	PB	85
12	Debye-Hückel Theory	AG	334
13	Distinction between 1°, 2° and 3° amines with hinsberg reagent	RT	320
14	Distinction between 1°, 2° and 3° amines with nitrous acid	RT	264
15	Effect of substituent and solvent on basicity	RT	72
16	Electrolysis in metallurgy and industry	SSB	143
17	EMF measurements in determining free energy, enthalpy and	SSB	84
18	Equivalent and molar conductivity at infinite dilution	AG	304
19	Factors effecting CFSE	PB	336
20	Faraday's laws of electrolysis ~~and Concentration cells with and~~	~~SSB~~ AG	99
21	Glass and SbO/Sb2O3 electrodes	SSB	21
22	Heterocyclic Compound pyridine	AN	327
23	Heterocyclic Compound quinoline	AN	23
24	Heterocyclic Compound thiophene	AN	323
25	Hydrogen and quinone-hydroquinone Electrodes	SSB	112
26	Isomerism in coordination compounds	PB	5
27	Jahn-Teller theorem	PB	131
28	Kohlrausch law	AG	50
29	Lanthenoid contraction	PS	159
30	Magnetic Properties of Transition metals	PS	30
31	Mannich reaction	RT	166
32	Octahedral vs. tetrahedral coordination	PB	
33	Polynuclear hydrocarbons : Anthracene	AN	
34	Polynuclear hydrocarbons : Naphthalene	AN	330
35	Preparation of diazonium salt and their synthetic applications	RT	165
36	reversible and irreversible cells with examples and Cell reaction	SSB	
37	Specific, equivalent and molar conductance	AG	
38	Stereochemistry of complexes with 4 and 6 coordination	PB	161
39	Trace and ultra trace elements	PS	
40	Valance bond theory (inner and outer orbital complexes)	PB	306
41	Werner's theory	PB	
42	Wien effect, Debye-Falkenhagen effect and Walden's rule	AG	

Absent

Absent

Absent

10/04/2023

10/04/2023

10/4/23

BOD

α - A+

β+ - A

β - B+

γ = B

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Topics of seminars

Seminar Topic for 6th Semster (H); 2023
Department of Chemistry

Date = 11/4/23

Sr. N.	Topic	Prof. N.	Roll No	
1	18 electron rule	PS	70	β
2	Basic principles of Proton Magnetic Resonance	AN	219	α
3	Bonding in Meral alkene conplexes	PS	189	β
4	Bonding of metal carbonyl	PS	165	α
5	Catalysis; basic principles; homogeneous and heterogeneous catalysis	PB	110	α
6	Chemical shift and factors influencing on it	AN	257	α
7	Classical and non clasical metal hydride and metal nytrosyl compounds	PS	266	α
8	Components of battery and their role	SSB	298	α
9	Introduction and classifications of polymer	RT	169	α
10	Metal metal bonding in organometallic compounds	PS	292	α
11	Natural and synthetic rubbers	RT	220	α
12	Natural dyes	AN	72	β
13	Oxidative addition and reductive elimination; migratory insertion; β-hydride elimination	PB		
14	Polymerisation reactions	RT	142	β+
15	Primary and secondary batteries	SSB	207	α
16	Synthesis gas by metal carbonyl complexes	PB		
17	Synthetic Gasoline (Fisher-Tropsch reaction)	PB	217	α
18	Thermodynamic and kinetic stability	PB	141	α
19	Thermosetting and thermosoftening plastic	RT	353	β
20	Trans effect; theories of trans-effect	PB	4	α
21	Types of Batteries and their characteristics	SSB	139	α
22	Types of fertilizer	PS	275	β

α: A+
β+ = A
β = B+
γ = B

E. Sample photographs of students' seminars

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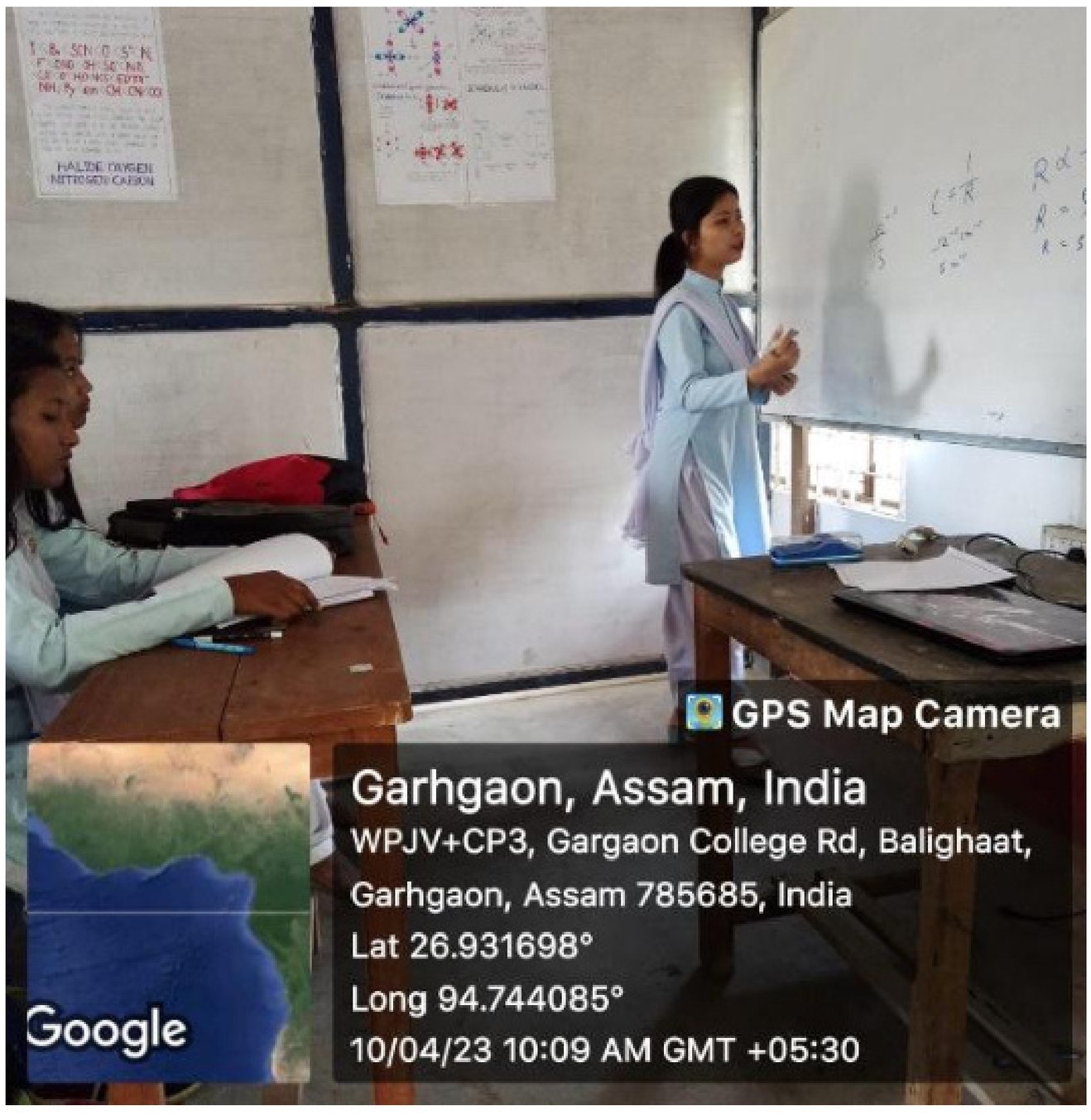


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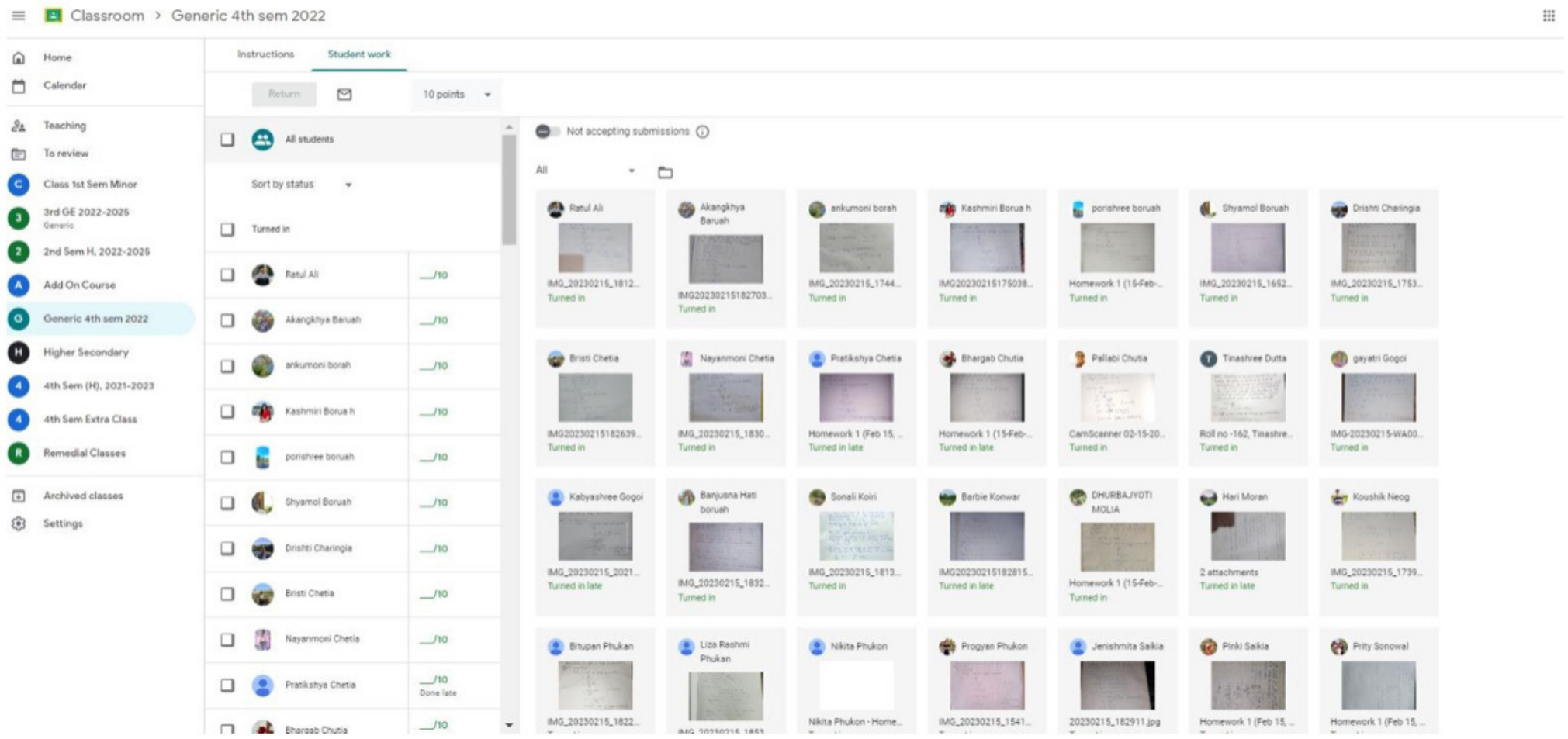
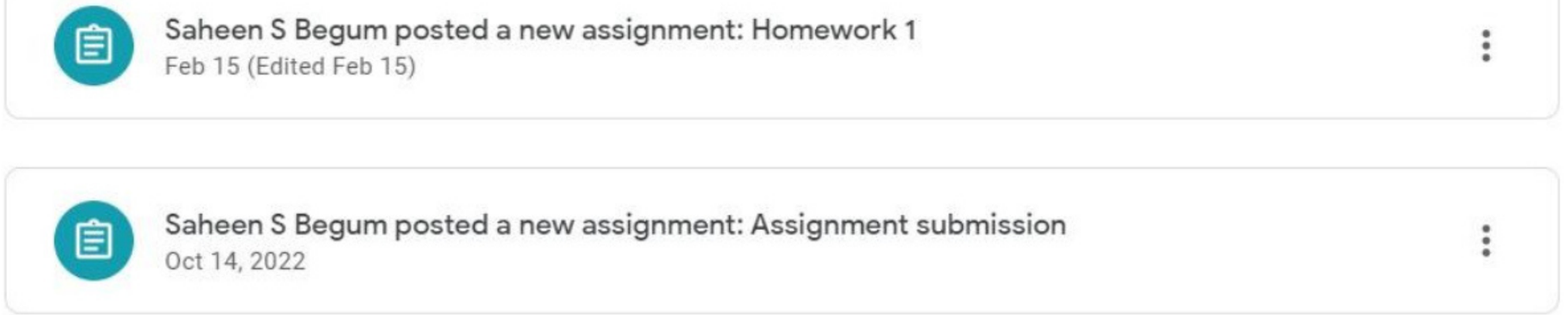
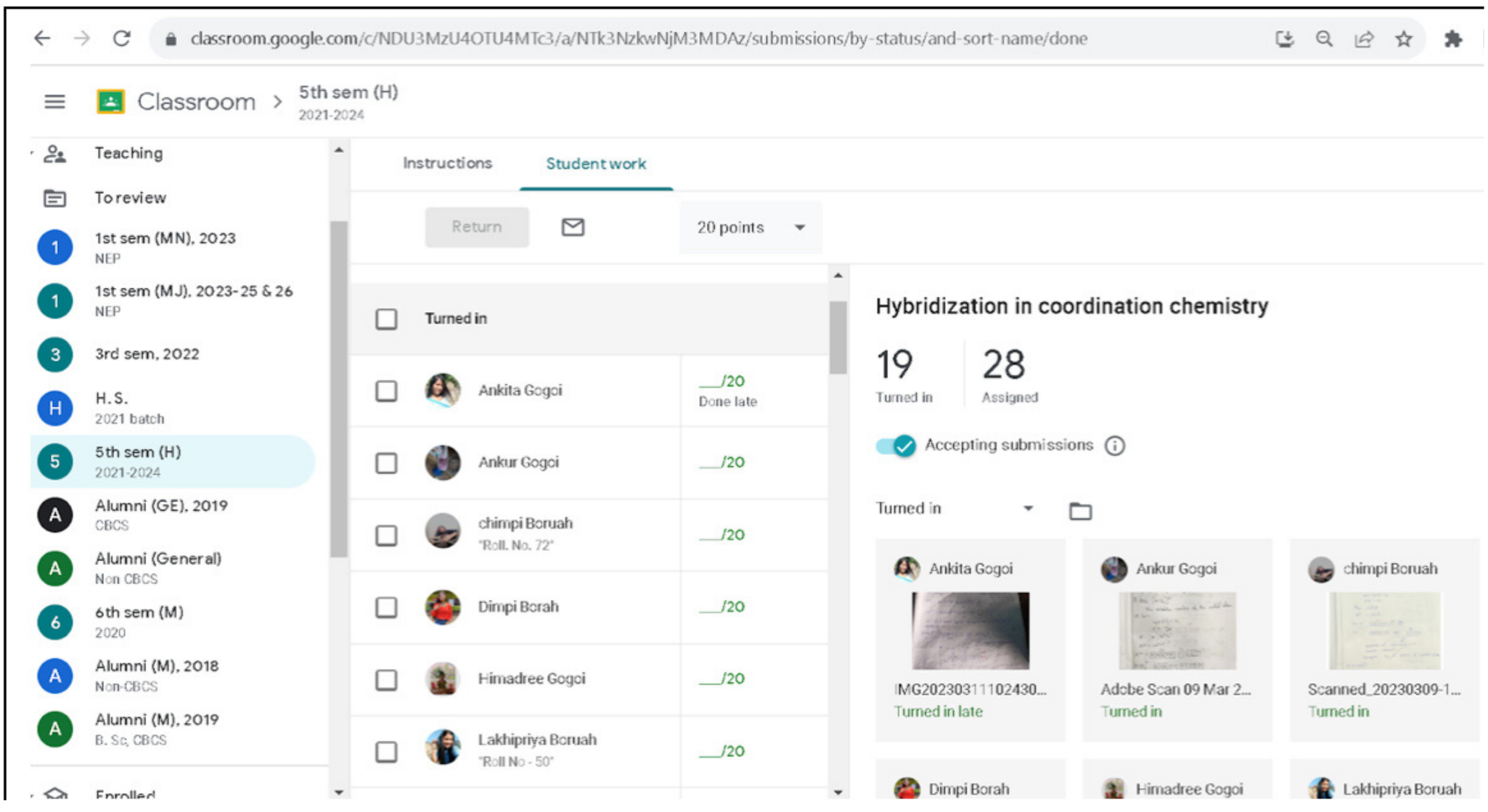
F. Display of Sessional Marks on Notice Board

G. Home Assignment through ICT







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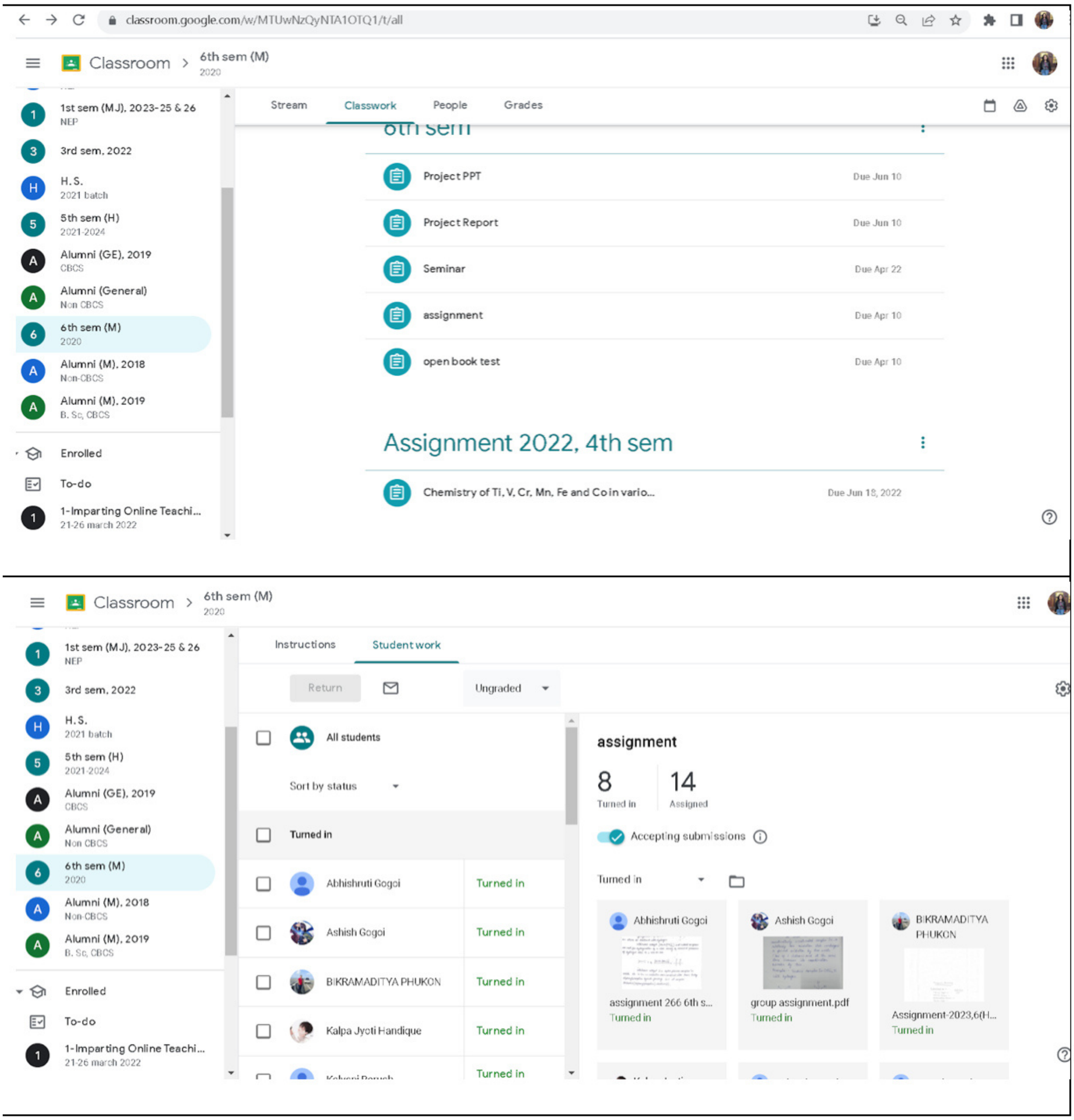

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H.Greviance Redressal Report

Mechanism to deal with internal examination related grievances is transparent, time- bound and efficient

- The department of chemistry has a well-organized mechanism for Redressal of examination related grievances.
- The student can approach the subject teachers or HOD to redress the examination related grievance.
- If a student is not able to appear for examination due to medical or any genuine reason, he/she can give the examination later as per norms of the department, provided that he/she submits application with proper documents.
- The student performance is displayed on the notice board and the same is informed to the parents to maintain transparency.

Mechanism to deal with internal examination related grievances:

- The grievance may be there due to error in question, incomplete question or question being out of syllabus. If any such grievance is reported at the department, then appropriate action is taken by the HOD and other faculty members.
- The grievance is at first verified and necessary action is taken.

Mechanism to deal with marks related grievances:

- The faculty evaluates the papers within 15 days after the test.
- The evaluated answer sheets are shown to students in class.
- Any grievance related to marks by the student can apply for revaluation.
- For this the students need to apply within 3 days.
- The paper is then reevaluated and the result is published within the next 7 days.
- After these the mid semester marks are displayed on the notice board.

During the session 2022-23, we have received two internal examination related grievances. Their problem has been resolved within the stipulated time period.

Serial No.	Name of the student	Date	Semester	Grievance	Remarks
1	Miss Suman Chetia	06.03.2023	3rd	To review answer script	Resolved
2	Miss Himadree Gogoi	06.03.2023	3rd	To review answer script	Resolved

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Sample of Redressal Form

APPLICATION FORM

Grievances Redressal Form for Sessional Examination

To

The Head
Department of Chemistry
Gargaon College

1. Name (in CAPITAL letters) MISS SUMAN CHETIA
2. Class B.Sc 3rd semesten
3. (A) Mobile no 8822019478 (B) Mail ID sumanchetia2003@gmail.com
4. Examination Details (A) Examination 20 22
   (B) Semester 3rd semesten
   (C) Subject/Speciality Inorganic Chemistry
   (D) Paper Inorganic Chemistry Paper Code C-301
   (E) Roll no : 185202216
   (F) Date of declaration of results: 06-03-23
5. Whether paper is applied for review (Yes/No): Yes

Yours faithfully
Suman Chetia
(Signature of the applicant)

For Office Use Only

1. Date of receiving the form: 06/04/2023
2. Details of redressal of grievances:

Suman Chetia, a student of 3rd semester, have a query on her sessional marks and want to review her answer scripts She is duly allowed to check her copy. ~~She~~ After review, we find that she has not given examples after each explanation of answers. She is further send for mentoring on that particular matter.

Date: 08/04/2023

Signature of Examiner *Signature of In-charge of Internal Semester* *Signature of HOD*

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APPLICATION FORM

Grievances Redressal Form for Sessional Examination

To

The Head
Department of ...Chemistry.....
Gargaon College

1. Name (in CAPITAL letters) ...MISS HIMADREE GOGOI.....
2. Class .....B.Sc. 2nd Semester.....
3. (A) Mobile no.....7637928416..... (B) Mail ID.....himadree.gogoi87@gmail.com
4. Examination Details (A).....Examination 2022
   (B) Semester.....3rd semester.....
   (C) Subject/Speciality.....Physical Chemistry.....
   (D) Paper.....Physical Chemistry.....Paper Code C-302
   (E) Roll no : ..185201541.....
   (F) Date of declaration of results: ..06-03-23.....
5. Whether paper is applied for review (Yes/No): ...Yes.....

Yours faithfully
....H.Himadree Gogoi.
(Signature of the applicant)

For Office Use Only

1. Date of receiving the form: 31/03/2023
2. Details of redressal of grievances:

The Student secured 04 marks in the sessional exam therefore, She wanted to review her answer paper. She's allowed to go through the copy. She finally got to know that her answer are incomplete and proper meaing of the answers are not implied.

Date: 02-04-2023

Signature of Examiner *Signature of In-charge of Internal Semester* 02/04/2023 *Signature of HOD*

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