BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, KATAKA

DEPARTMENT: HUMANITIES AND SCIENCES

LESSON PLAN

SUBJECT: - APPLIED CHEMISTRY (LAB)

ACADEMIC SESSION:-2026-27

YEAR: - 1ST

SECTION: - A **BRANCH:- AE&IE**

Prepared by

Ms Supritika Sundi

Lect. (S-II) in Chemistry

Lesson Plan

Subject: Applied Chemistry Lab(PR-3)

Discipline: AE&IE Sec:A Group-1 Year: 1st	Name of Faculty : Ms. Supritika Sundi
No. of period per week allotted: 02 (2 Hours) (Wednesday), Total Period:64	Session From Date: 17-08-2026 To date : 17-04-2027

Week	Periods per week	EXPERIMENTS	Activity to be performed
1st	2	**EXPERIMENT- 1 : Preparation of standard solution of oxalic acid or potassium permanganate.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
2nd	2	**EXPERIMENT- 1 : Preparation of standard solution of oxalic acid or potassium permanganate.**	Record writing by the students,Record checking and viva voce of Expt. 1
3rd	2	**EXPERIMENT - 2 : To determine strength of given sodium hydroxide solution by titrating against standard oxalic acid solution using phenolphthalein indicator.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
4th	2	**EXPERIMENT - 2 : To determine strength of given sodium hydroxide solution by titrating against standard oxalic acid solution using phenolphthalein indicator.**	Record writing by the students,Record checking and viva voce of Expt. 2
5th	2	**EXPERIMENT - 3 : Standardization of KMnO4 solution using standard oxalic acid and Determine the percentage of iron present in given Hematite ore by KMnO4 solution.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
6th	2	**EXPERIMENT - 3 : Standardization of KMnO4 solution using standard oxalic acid and Determine the percentage of iron present in given Hematite ore by KMnO4 solution.**	Record writing by the students,Record checking and viva voce of Expt. 3
7th	2	**EXPERIMENT - 4: Iodometric estimation of copper in the copper pyrite ore.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
8th	2	**EXPERIMENT - 4: Iodometric estimation of copper in the copper pyrite ore.**	Record writing by the students,Record checking and viva voce of Expt. 4

9th	2	**EXPERIMENT - 5: Volumetric estimation of total acid number (TAN) of given oil.**	Introduction of the instrument demonstration of Experiment, Experiment performed & Observ taken by students.
10th	2	**EXPERIMENT - 5: Volumetric estimation of total acid number (TAN) of given oil.**	Record writing by the students,Recor checking and viva voce of Expt. 5
11th	2	**EXPERIMENT - 6: Volumetric estimation of total hardness of given water sample using standard EDTA solution.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
12th	2	**EXPERIMENT - 6: Volumetric estimation of total hardness of given water sample using standard EDTA solution.**	Record writing by the students,Record checking and viva voce of Expt. 6
13th	2	**EXPERIMENT - 7:Volumetric estimation of alkalinity of given water sample using 0.01M sulphuric acid**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
14th	2	**EXPERIMENT - 7:Volumetric estimation of alkalinity of given water sample using 0.01M sulphuric acid**	Record writing by the students,Record checking and viva voce of Expt. 7
15th	2	**EXPERIMENT - 8: Proximate analysis of coal** **a) Gravimetric estimation of moisture in given coal sample** **b) Gravimetric estimation of ash in given coal sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
16th	2	**EXPERIMENT - 8: Proximate analysis of coal** **a) Gravimetric estimation of moisture in given coal sample** **b) Gravimetric estimation of ash in given coal sample**	Record writing by the students,Record checking and viva voce of Expt. 8
17th	2	**EXPERIMENT - 9: Determine the conductivity of given water sample.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
18th	2	**EXPERIMENT - 9: Determine the conductivity of given water sample.**	Record writing by the students,Record checking and viva voce of Expt. 9
19th	2	**EXPERIMENT No.-10 :Verification of the first law of electrolysis of copper sulfate using copper electrode**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
20th	2	**EXPERIMENT No.-10 :Verification of the first law of electrolysis of copper sulfate using copper electrode**	Record writing by the students,Record checking and viva voce of Expt. 10

	2	**EXPERIMENT No.-11 : Construction and measurement of emf of elector chemical cell (Daniel cell)**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
22nd	2	**EXPERIMENT No.-11 : Construction and measurement of emf of elector chemical cell (Daniel cell)**	Record writing by the students,Record checking and viva voce of Expt. 11
23rd	2	**EXPERIMENT No.-12 : Determination of Viscosity of Lubricating Oil using Redwood viscometer**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
24th	2	**EXPERIMENT No.-12 : Determination of Viscosity of Lubricating Oil using Redwood viscometer**	Record writing by the students,Record checking and viva voce of Expt. 12
25th	2	**EXPERIMENT No.-13 : Determination of amount of dissolved oxygen present in a water sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
26th	2	**EXPERIMENT No.-13 : Determination of amount of dissolved oxygen present in a water sample**	Record writing by the students,Record checking and viva voce of Expt. 13
27th	2	**EXPERIMENT No.-14: Determination of amount of BOD present in a water sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
28th	2	**EXPERIMENT No.-14: Determination of amount of BOD present in a water sample**	Record writing by the students,Record checking and viva voce of Expt. 14
29th	2	**EXPERIMENT No.-15: Determination of amount of dissolved chlorine present in a water sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
30th	2	**EXPERIMENT No.-15: Determination of amount of dissolved chlorine present in a water sample**	Record writing by the students,Record checking and viva voce of Expt. 15
31st	2	**Final Record Assessment and Allocation of Sessional Mark**	Record checking and viva voce along with final record evaluation and allocation of sessional marks.
32nd	2	**Final Record Assessment and Allocation of Sessional Mark**	Record checking and viva voce along with final record evaluation and allocation of sessional marks.

Total periods=64

BOOK REFERNCE:

Applied Chemistry by Anju Rawlley & Devdatta Vinayakrao Saraf

31/07/26

Concerned faculty
Ms Supritika Sundi

Dept. of Humanities & Sc.
BOSE, Kataka

BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, KATAKA

DEPARTMENT: HUMANITIES AND SCIENCES

LESSON PLAN

SUBJECT: - APPLIED CHEMISTRY (LAB)

ACADEMIC SESSION:-2026-27

YEAR: - 1ST

SECTION: - D2, BRANCH:- CIVIL

Prepared by

Ms Supritika Sundi

Lect. (S-II) in Chemistry

Lesson Plan
Subject: Applied Chemistry Lab(PR-3)

ine: Civil Sec : D2 Group-1	Name of Faculty : Ms. Supritika Sundi
No. of period per week allotted: 02 (2 Hours) (Tuesday), Total Period:64	Session From Date: 17-08-2026 To date : 17-04-2027

Week	Periods per week	EXPERIMENTS	Activity to be performed
1st	2	**EXPERIMENT- 1 : Preparation of standard solution of oxalic acid or potassium permanganate.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
2nd	2	**EXPERIMENT- 1 : Preparation of standard solution of oxalic acid or potassium permanganate.**	Record writing by the students,Record checking and viva voce of Expt. 1
3rd	2	**EXPERIMENT - 2 : To determine strength of given sodium hydroxide solution by titrating against standard oxalic acid solution using phenolphthalein indicator.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
4th	2	**EXPERIMENT - 2 : To determine strength of given sodium hydroxide solution by titrating against standard oxalic acid solution using phenolphthalein indicator.**	Record writing by the students,Record checking and viva voce of Expt. 2
5th	2	**EXPERIMENT - 3 : Standardization of KMnO4 solution using standard oxalic acid and Determine the percentage of iron present in given Hematite ore by KMnO4 solution.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
6th	2	**EXPERIMENT - 3 : Standardization of KMnO4 solution using standard oxalic acid and Determine the percentage of iron present in given Hematite ore by KMnO4 solution.**	Record writing by the students,Record checking and viva voce of Expt. 3
7th	2	**EXPERIMENT - 4: Iodometric estimation of copper in the copper pyrite ore.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.

8th	2	**EXPERIMENT - 4: Iodometric estimation of copper in the copper pyrite ore.**	Record writing by the students,Record checking and viva voce of Expt. 4
9th	2	**EXPERIMENT - 5: Volumetric estimation of total acid number (TAN) of given oil.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
10th	2	**EXPERIMENT - 5: Volumetric estimation of total acid number (TAN) of given oil.**	Record writing by the students,Record checking and viva voce of Expt. 5
11th	2	**EXPERIMENT - 6: Volumetric estimation of total hardness of given water sample using standard EDTA solution.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
12th	2	**EXPERIMENT - 6: Volumetric estimation of total hardness of given water sample using standard EDTA solution.**	Record writing by the students,Record checking and viva voce of Expt. 6
13th	2	**EXPERIMENT - 7:Volumetric estimation of alkalinity of given water sample using 0.01M sulphuric acid**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
14th	2	**EXPERIMENT - 7:Volumetric estimation of alkalinity of given water sample using 0.01M sulphuric acid**	Record writing by the students,Record checking and viva voce of Expt. 7
15th	2	**EXPERIMENT - 8: Proximate analysis of coal** **a) Gravimetric estimation of moisture in given coal sample** **b) Gravimetric estimation of ash in given coal sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
16th	2	**EXPERIMENT - 8: Proximate analysis of coal** **a) Gravimetric estimation of moisture in given coal sample** **b) Gravimetric estimation of ash in given coal sample**	Record writing by the students,Record checking and viva voce of Expt. 8

	2	**EXPERIMENT - 9: Determine the conductivity of given water sample.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
18th	2	**EXPERIMENT - 9: Determine the conductivity of given water sample.**	Record writing by the students,Record checking and viva voce of Expt. 9
19th	2	**EXPERIMENT No.-10 :Verification of the first law of electrolysis of copper sulfate using copper electrode**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
20th	2	**EXPERIMENT No.-10 :Verification of the first law of electrolysis of copper sulfate using copper electrode**	Record writing by the students,Record checking and viva voce of Expt. 10
21st	2	**EXPERIMENT No.-11 : Construction and measurement of emf of elector chemical cell (Daniel cell)**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
22nd	2	**EXPERIMENT No.-11 : Construction and measurement of emf of elector chemical cell (Daniel cell)**	Record writing by the students,Record checking and viva voce of Expt. 11
23rd	2	**EXPERIMENT No.-12 : Determination of Viscosity of Lubricating Oil using Redwood viscometer**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
24th	2	**EXPERIMENT No.-12 : Determination of Viscosity of Lubricating Oil using Redwood viscometer**	Record writing by the students,Record checking and viva voce of Expt. 12
25th	2	**EXPERIMENT No.-13 : Determination of amount of dissolved oxygen present in a water sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.

26th	2	**EXPERIMENT No.-13 : Determination of amount of dissolved oxygen present in a water sample**	Record writing by the students,Record checking and viva voce of Expt. 13
27th	2	**EXPERIMENT No.-14: Determination of amount of BOD present in a water sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
28th	2	**EXPERIMENT No.-14: Determination of amount of BOD present in a water sample**	Record writing by the students,Record checking and viva voce of Expt. 14
29th	2	**EXPERIMENT No.-15: Determination of amount of dissolved chlorine present in a water sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
30th	2	**EXPERIMENT No.-15: Determination of amount of dissolved chlorine present in a water sample**	Record writing by the students,Record checking and viva voce of Expt. 15
31st	2	**Final Record Assessment and Allocation of Sessional Mark**	Record checking and viva voce along with final record evaluation and allocation of sessional marks.
32nd	2	**Final Record Assessment and Allocation of Sessional Mark**	Record checking and viva voce along with final record evaluation and allocation of sessional marks.
	Total periods=64		

BOOK REFERNCE:

Applied Chemistry by Anju Rawlley & Devdatta Vinayakrao Saraf

31/07/26

Concerned faculty
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31/07/2026

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BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, KATAKA

DEPARTMENT: HUMANITIES AND SCIENCES

LESSON PLAN

SUBJECT: - APPLIED CHEMISTRY (LAB)

ACADEMIC SESSION:-2026-27

YEAR: - 1ST

SECTION: - G 2 BRANCH:- ELECTRICAL

Prepared by

Ms Supritika Sundi

Lect. (S-II) in Chemistry

Lesson Plan

Subject: Applied Chemistry Lab(PR-3)

Line: Electrical Sec:G2 Group-1 Year: 1st	Name of Faculty : Ms. Supritika Sundi
No. of period per week allotted: 02 (2 Hours) (Thursday), Total Period:62	Session From Date: 17-08-2026 To date : 17-04-2027

Week	Periods per week	EXPERIMENTS	Activity to be performed
1st	2	**EXPERIMENT- 1 : Preparation of standard solution of oxalic acid or potassium permanganate.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
2nd	2	**EXPERIMENT- 1 : Preparation of standard solution of oxalic acid or potassium permanganate.**	Record writing by the students,Record checking and viva voce of Expt. 1
3rd	2	**EXPERIMENT - 2 : To determine strength of given sodium hydroxide solution by titrating against standard oxalic acid solution using phenolphthalein indicator.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
4th	2	**EXPERIMENT - 2 : To determine strength of given sodium hydroxide solution by titrating against standard oxalic acid solution using phenolphthalein indicator.**	Record writing by the students,Record checking and viva voce of Expt. 2
5th	2	**EXPERIMENT - 3 : Standardization of KMnO4 solution using standard oxalic acid and Determine the percentage of iron present in given Hematite ore by KMnO4 solution.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
6th	2	**EXPERIMENT - 3 : Standardization of KMnO4 solution using standard oxalic acid and Determine the percentage of iron present in given Hematite ore by KMnO4 solution.**	Record writing by the students,Record checking and viva voce of Expt. 3
7th	2	**EXPERIMENT - 4: Iodometric estimation of copper in the copper pyrite ore.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.

8th	2	**EXPERIMENT - 4: Iodometric estimation of copper in the copper pyrite ore.**	Record writing by the studen checking and viva voce of Expt.
9th	2	**EXPERIMENT - 5: Volumetric estimation of total acid number (TAN) of given oil.**	Introduction of the instrument a demonstration of Experiment, Experiment performed & Observati taken by students.
10th	2	**EXPERIMENT - 5: Volumetric estimation of total acid number (TAN) of given oil.**	Record writing by the students,Record checking and viva voce of Expt. 5
11th	2	**EXPERIMENT - 6: Volumetric estimation of total hardness of given water sample using standard EDTA solution.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
12th	2	**EXPERIMENT - 6: Volumetric estimation of total hardness of given water sample using standard EDTA solution.**	Record writing by the students,Record checking and viva voce of Expt. 6
13th	2	**EXPERIMENT - 7:Volumetric estimation of alkalinity of given water sample using 0.01M sulphuric acid**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
14th	2	**EXPERIMENT - 7:Volumetric estimation of alkalinity of given water sample using 0.01M sulphuric acid**	Record writing by the students,Record checking and viva voce of Expt. 7
15th	2	**EXPERIMENT - 8: Proximate analysis of coal** **a) Gravimetric estimation of moisture in given coal sample** **b) Gravimetric estimation of ash in given coal sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
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17th	2	**EXPERIMENT - 9: Determine the conductivity of given water sample.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
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19th	2	**EXPERIMENT No.-10 :Verification of the first law of electrolysis of copper sulfate using copper electrode**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.

	2	**EXPERIMENT No.-10 :Verification of the first law of electrolysis of copper sulfate using copper electrode**	Record writing by the students,Record checking and viva voce of Expt. 10
21st	2	**EXPERIMENT No.-11 : Construction and measurement of emf of elector chemical cell (Daniel cell)**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
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23rd	2	**EXPERIMENT No.-12 : Determination of Viscosity of Lubricating Oil using Redwood viscometer**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
24th	2	**EXPERIMENT No.-12 : Determination of Viscosity of Lubricating Oil using Redwood viscometer**	Record writing by the students,Record checking and viva voce of Expt. 12
25th	2	**EXPERIMENT No.-13 : Determination of amount of dissolved oxygen present in a water sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
26th	2	**EXPERIMENT No.-13 : Determination of amount of dissolved oxygen present in a water sample**	Record writing by the students,Record checking and viva voce of Expt. 13
27th	2	**EXPERIMENT No.-14: Determination of amount of BOD present in a water sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
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29th	2	**EXPERIMENT No.-15: Determination of amount of dissolved chlorine present in a water sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
30th	2	**EXPERIMENT No.-15: Determination of amount of dissolved chlorine present in a water sample**	Record writing by the students,Record checking and viva voce of Expt. 15
31st	2	**Final Record Assessment and Allocation of Sessional Mark**	Record checking and viva voce along with final record evaluation and allocation of sessional marks.

32nd	2	**Final Record Assessment and Allocation of Sessional Mark**	Record checking and viva voce along with final record evaluation and allocation of sessional marks.

Total periods=64

BOOK REFERNCE:

Applied Chemistry by Anju Rawlley & Devdatta Vinayakrao Saraf

31/07/26

Concerned faculty
Ms Supritika Sundi

31/07/2026

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BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, KATAKA

DEPARTMENT: HUMANITIES AND SCIENCES

LESSON PLAN

SUBJECT: - APPLIED CHEMISTRY (LAB)

ACADEMIC SESSION:-2026-27

YEAR: - 1ST

SECTION: - G 3 BRANCH:- ELECTRICAL

Prepared by

Ms Supritika Sundi

Lect. (S-II) in Chemistry

Lesson Plan
Subject: Applied Chemistry Lab(PR-3)

Discipline: Electrical Sec G3 Group-1 Year: 1st	Name of Faculty : Ms. Supritika Sundi
No. of period per week Class allotted: 02 (2 Hours) (Friday), Total Period:64	Session From Date: 17-08-2026 To date : 17-04-2027

Week	Periods per week	EXPERIMENTS	Activity to be performed
1st	2	**EXPERIMENT- 1 : Preparation of standard solution of oxalic acid or potassium permanganate.**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
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29th	2	**EXPERIMENT No.-15: Determination of amount of dissolved chlorine present in a water sample**	Introduction of the instrument and demonstration of Experiment, Experiment performed & Observations taken by students.
30th	2	**EXPERIMENT No.-15: Determination of amount of dissolved chlorine present in a water sample**	Record writing by the students,Record checking and viva voce of Expt. 15
31st	2	**Final Record Assessment and Allocation of Sessional Mark**	Record checking and viva voce along with final record evaluation and allocation of sessional marks.

32nd	2	**Final Record Assessment and Allocation of Sessional Mark**	Record checking and viva voce along with final record evaluation and allocation of sessional marks.

Total periods=64

BOOK REFERNCE:

Applied Chemistry by Anju Rawlley & Devdatta Vinayakrao Saraf

31/07/2016

Concerned faculty
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