

# LESSON PLAN

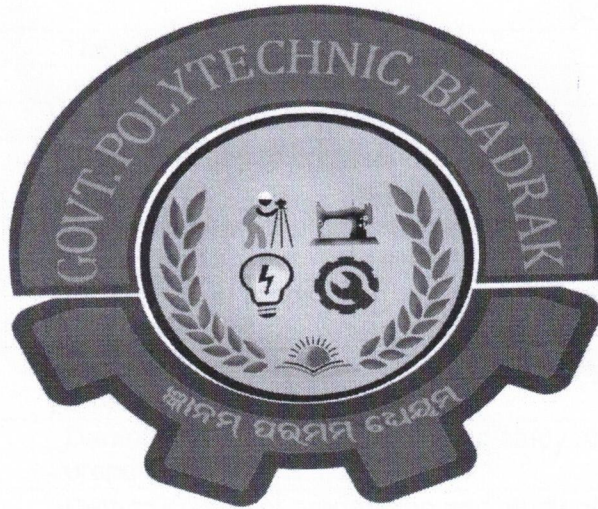
SUB: ENGINEERING CHEMISTRY(PRACTICAL)

BRANCH:- ELECTRICAL ENGG. & COMPUTER SCIENCE ENGG.

SEMESTER:1<sup>ST</sup>

NAME OF FACULTY: SATYAJIT DHAL (Sr. Lecturer Math & Science)

AJIT KU. PALLEI (Lab. Assistant)



**GOVERNMENT POLYTECHNIC,  
BHADRAK**

Hod, Math&Sc

Academic Co-ordinator

Principal  
Govt. Polytechnic, Bhadrak

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**LESSON PLAN FOR WINTER SEMESTER – 2023**

**Dept. of Math & Science, Govt. Polytechnic, Bhadrak**

Course Code: PR 2(B)  
Theory: ENGG. CHEM PRACTICAL  
Total Periods : 60  
Examination: WINTER 2023  
Sem: FIRST SEMESTER

Sessional:50  
End Sem. Exam: 50  
Total Mark :100  
Class Start :16.08.2023

<b>Discipline:</b> <i>Electricals Comp. Science</i>	<b>Semester: 1<sup>st</sup></b>	<b>Name of the Teaching Faculty : Satyajit Dhal, Sr. Lecturer Ajit kumar Pallei, Junior Lab Assitant</b>
<b>Subject:</b> Chemistry Lab	<b>No. of Days/per week class allotted: 04</b>	<b>Semester from date: 16.08.2023 To Date:11.12.2023</b>  <b>No. of Weeks: 16</b>
<b>Week</b>	<b>Class Day</b>	<b>Theory/ Practical Topics</b>
1 <sup>st</sup>	1 <sup>st</sup>	Introduction(Group-B1,D)
	2 <sup>nd</sup>	Introduction(Group-B2)
	3 <sup>rd</sup>	Demonstration of preparation and study of physical and chemical properties CO <sub>2</sub> gas. (Group-B1,D)
	4 <sup>th</sup>	Demonstration of preparation and study of physical and chemical properties CO <sub>2</sub> gas. (Group-B2)
2 <sup>nd</sup>	1 <sup>st</sup>	Lab Practice of preparation and study of physical and chemical properties CO <sub>2</sub> gas. (Group-B1,D)
	2 <sup>nd</sup>	Lab Practice of preparation and study of physical and chemical properties CO <sub>2</sub> gas. (Group-B2)
	3 <sup>rd</sup>	Demonstration of preparation and study of physical and chemical properties NH <sub>3</sub> gas. (Group-B1,D)
	4 <sup>th</sup>	Demonstration of preparation and study of physical and chemical properties NH <sub>3</sub> gas. (Group-B2)
3 <sup>rd</sup>	1 <sup>st</sup>	Lab practice of preparation and study of physical and chemical properties NH <sub>3</sub> gas. (Group-B1,D)
	2 <sup>nd</sup>	Lab practice of preparation and study of physical and chemical properties NH <sub>3</sub> gas. (Group-B2)
	3 <sup>rd</sup>	Demonstration of crystallization of Copper sulphate from copper carbonate.(Group-B1,D)
	4 <sup>th</sup>	Demonstration of Crystallization of Copper sulphate from copper carbonate.(Group-B2)
4 <sup>th</sup>	1 <sup>st</sup>	Lab practice of crystallization of Copper sulphate from copper carbonate.(Group-B1,D)
	2 <sup>nd</sup>	Lab practice of crystallization of Copper sulphate from copper carbonate.(Group-B2)
	3 <sup>rd</sup>	Demonstration of simple acid-base titrations acidimetry. (Group-B1,D)
	4 <sup>th</sup>	Demonstration of simple acid-base titrations acidimetry. (Group-B2)
5 <sup>th</sup>	1 <sup>st</sup>	Lab practice of simple acid-base titrations acidimetry. (Group-B1,D)
	2 <sup>nd</sup>	Lab practice of simple acid-base titrations acidimetry. (Group-B2)
	3 <sup>rd</sup>	Demonstration of simple acid-base titrations alkalimetry. (Group-

		B1,D)
	4 <sup>th</sup>	Demonstration of simple acid-base titrations alkalimetry. (Group-B2)
6 <sup>th</sup>	1 <sup>st</sup>	Lab practice of simple acid-base titrations alkalimetry. (Group-B1,D)
	2 <sup>nd</sup>	Lab practice of simple acid-base titrations alkalimetry. (Group-B2).
	3 <sup>rd</sup>	Tests for acid radicals known Carbonate, Sulphide(Group-B1,D)
7 <sup>th</sup>	4 <sup>th</sup>	Tests for acid radicals known Carbonate, Sulphide(Group-B2)
	1 <sup>st</sup>	Tests for acid radicals known Chloride, Nitrate and Sulphate(Group-B1,D)
	2 <sup>nd</sup>	Tests for acid radicals known Chloride, Nitrate and Sulphate(Group-B2)
	3 <sup>rd</sup>	Lab practice of acid radicals known Carbonate, Sulphide(Group-B1,D)
8 <sup>th</sup>	4 <sup>th</sup>	Lab practice of acid radicals known Carbonate, Sulphide(Group-B2)
	1 <sup>st</sup>	Lab practice of acid radicals known Chloride, Nitrate and Sulphate (Group-B1,D)
	2 <sup>nd</sup>	Lab practice of acid radicals known Chloride, Nitrate and Sulphate (Group-B2)
	3 <sup>rd</sup>	Tests for basic radicals known Ammonium, Zinc (Group-B1,D)
9 <sup>th</sup>	4 <sup>th</sup>	Tests for basic radicals known Ammonium, Zinc (Group-B2)
	1 <sup>st</sup>	Tests for basic radicals known Magnesium, Aluminium (Group-B1,D)
	2 <sup>nd</sup>	Tests for basic radicals known Magnesium, Aluminium (Group-B2)
10 <sup>th</sup>	3 <sup>rd</sup>	Tests for basic radicals known Calcium, Sodium and Potassium (Group-B1,D)
	4 <sup>th</sup>	Tests for basic radicals known Calcium, Sodium and Potassium (Group-B2)
	1 <sup>st</sup>	Lab practice of basic radicals known Ammonium, Zinc (Group-B1,D)
11 <sup>th</sup>	2 <sup>nd</sup>	Lab practice of basic radicals known Ammonium, Zinc (Group-B2)
	3 <sup>rd</sup>	Lab practice of basic radicals known Magnesium, Aluminium (Group-B1,D)
	4 <sup>th</sup>	Lab practice of Tests for basic radicals known Magnesium, Aluminium (Group-B2)
	1 <sup>st</sup>	Lab practice of basic radicals known Calcium, Sodium and Potassium (Group-B1,D)
12 <sup>th</sup>	2 <sup>nd</sup>	Lab practice of basic radicals known Calcium, Sodium and Potassium (Group-B2)
	3 <sup>rd</sup>	Demonstration of unknown Acid radicals(Group-B1,D)
	4 <sup>th</sup>	Demonstration of unknown Acid radicals(Group-B2)
	1 <sup>st</sup>	Lab practice of unknown Acid radicals(Group-B1,D)
13 <sup>th</sup>	2 <sup>nd</sup>	Lab practice of unknown Acid radicals(Group-B2)
	3 <sup>rd</sup>	Demonstration of unknown Basic radicals(Group-B1,D)
	4 <sup>th</sup>	Demonstration of unknown Basic radicals(Group-B2)
	1 <sup>st</sup>	Lab practice of unknown Basic radicals(Group-B1,D)
14 <sup>th</sup>	2 <sup>nd</sup>	Lab practice of unknown Basic radicals(Group-B2)
	3 <sup>rd</sup>	Demonstration of unknown salt (composed of one basic radical and one acid radical) (Group-B1,D)
	4 <sup>th</sup>	Demonstration of unknown salt (composed of one basic radical and one acid radical) (Group-B2)
	1 <sup>st</sup>	Lab practice of unknown salt (composed of one basic radical and one acid radical) (Group-B1,D)

	2 <sup>nd</sup>	Lab practice of unknown salt (composed of one basic radical and one acid radical) (Group-B2)
	3 <sup>rd</sup>	Record Check(Group-B1,D)
	4 <sup>th</sup>	Record Check(Group-B2)
15 <sup>th</sup>	1 <sup>st</sup>	Lab practice of all the experiment(Group-B1,D)
	2 <sup>nd</sup>	Lab practice of all the experiment(Group-B2)
	3 <sup>rd</sup>	Lab practice and record Check of all the experiment(Group-B1,D)
	4 <sup>th</sup>	Lab practice and record check of all the experiment(Group-B2)
16 <sup>th</sup>	1 <sup>st</sup>	Lab practice of all the experiment
	2 <sup>nd</sup>	Lab practice of all the experiment
	3 <sup>rd</sup>	Lab practice of all the experiment
	4 <sup>th</sup>	Lab practice of all the experiment

Signature of Faculty

*Abulkeri*  
12/08/2023

Signature of Sr. Lecturer/ HOD(I/C)

*[Signature]*  
12/8/23

Signature of Academic Co-ordinator

*[Signature]*  
12/8/23  
**Academic Co-ordinator**

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