

Discipline : <b>CIVIL ENGG.</b>	Semester : <b>2<sup>nd</sup></b>	Name of the Teaching Faculty: <b>NIRAKAR SAHOO</b>
Subject: <b>ENGG. CHEMISTRY LAB</b>	No. of days/per week class allotted: <b>04</b>	Semester from date 20.03.2023 to 24.06.2023 No. of Weeks: 15
Week	Class Day	Practical
<b>1<sup>ST</sup></b>	<b>1<sup>ST</sup></b>	Introduction
	<b>2<sup>ND</sup></b>	Preparation and study of physical and chemical properties of CO <sub>2</sub> gas- introduction
	<b>3<sup>RD</sup></b>	Theory
	<b>4<sup>TH</sup></b>	Practical
<b>2<sup>ND</sup></b>	<b>1<sup>ST</sup></b>	Practical
	<b>2<sup>ND</sup></b>	Record checking
	<b>3<sup>RD</sup></b>	Introduction – Preparation and study of physical and chemical properties of NH <sub>3</sub> gas
	<b>4<sup>TH</sup></b>	Theory
<b>3<sup>RD</sup></b>	<b>1<sup>ST</sup></b>	Practical
	<b>2<sup>ND</sup></b>	Practical
	<b>3<sup>RD</sup></b>	Practical, doubt clearing
	<b>4<sup>TH</sup></b>	Record checking
<b>4<sup>TH</sup></b>	<b>1<sup>ST</sup></b>	Introduction- Crystallization of Copper sulphate from copper carbonate.
	<b>2<sup>ND</sup></b>	Theory
	<b>3<sup>RD</sup></b>	Practical
	<b>4<sup>TH</sup></b>	Practical
<b>5<sup>TH</sup></b>	<b>1<sup>ST</sup></b>	Practical
	<b>2<sup>ND</sup></b>	Record checking.
	<b>3<sup>RD</sup></b>	Introduction – Simple acid base titration.
	<b>4<sup>TH</sup></b>	Theory
<b>6<sup>TH</sup></b>	<b>1<sup>ST</sup></b>	Theory – Acidimetry
	<b>2<sup>ND</sup></b>	Theory – Acidimetry
	<b>3<sup>RD</sup></b>	Practical
	<b>4<sup>TH</sup></b>	Practical
<b>7<sup>TH</sup></b>	<b>1<sup>ST</sup></b>	Record checking
	<b>2<sup>ND</sup></b>	doubt clearing
	<b>3<sup>RD</sup></b>	Theory – Alkalimetry
	<b>4<sup>TH</sup></b>	Theory – Alkalimetry
<b>8<sup>TH</sup></b>	<b>1<sup>ST</sup></b>	Practical
	<b>2<sup>ND</sup></b>	Practical
	<b>3<sup>RD</sup></b>	Record checking
	<b>4<sup>TH</sup></b>	doubt clearing
<b>9<sup>TH</sup></b>	<b>1<sup>ST</sup></b>	Introduction- test for acid radicals
	<b>2<sup>ND</sup></b>	Introduction- test for acid radicals

	3 <sup>RD</sup>	Test for carbonate, sulphate
	4 <sup>TH</sup>	Test for chloride, nitrate
10 <sup>TH</sup>	1 <sup>ST</sup>	Test for sulphate
	2 <sup>ND</sup>	doubt clear
	3 <sup>RD</sup>	. Record checking
	4 <sup>TH</sup>	Record checking
11 <sup>TH</sup>	1 <sup>ST</sup>	Introduction – test for basic radicals
	2 <sup>ND</sup>	Introduction – test for basic radicals
	3 <sup>RD</sup>	Test for ammonium ,zinc,
	4 <sup>TH</sup>	Test for magnesium, aluminium
12 <sup>TH</sup>	1 <sup>ST</sup>	Test for calcium, sodium, potassium
	2 <sup>ND</sup>	Doubt clear
	3 <sup>RD</sup>	Record checking
	4 <sup>TH</sup>	Record checking
13 <sup>TH</sup>	1 <sup>ST</sup>	Introduction- test for unknown acid radicals
	2 <sup>ND</sup>	practical
	3 <sup>RD</sup>	practical
	4 <sup>TH</sup>	Practical, record checking
14 <sup>TH</sup>	1 <sup>ST</sup>	Introduction- test for unknown basic radicals
	2 <sup>ND</sup>	practical
	3 <sup>RD</sup>	practical
	4 <sup>TH</sup>	Practical, record checking
15 <sup>TH</sup>	1 <sup>ST</sup>	Introduction- test for unknown salts
	2 <sup>ND</sup>	practical
	3 <sup>RD</sup>	practical
	4 <sup>TH</sup>	Practical, record checking