Discipline: Math & Science	Semester: 2nd Semester-2020- 21	Name of the Teaching Faculty: Sushreeta Behera (LECT)/ Nigamananda Nayak (Lab Instructor)
Subject:	No. of Days/week	Semester from date: 19/04/2021 to date: 10/07/20201
Engineering	Class Allotted: 60	No of weeks: 18
Chemistry		
Practical		
week	Class Day	Practical Topics
<b>1</b> st	1 <sup>st</sup>	Safety instructions to the students.
	2 <sup>nd</sup>	Precautions to be taken during practical classes.
2 <sup>nd</sup>	<b>1</b> st	Acquaintance of the students with the laboratory apparatus.
	2 <sup>nd</sup>	Acquaintance of the students with the laboratory chemicals.
3 <sup>rd</sup>	1 <sup>st</sup>	Bunsen burner (Different parts and their functions)
	2 <sup>nd</sup>	Luminous and non-luminous flame
4 <sup>th</sup>	1 <sup>st</sup>	Preparation of CO₂ gas and study its properties. (Theory)
	2 <sup>nd</sup>	Preparation of CO <sub>2</sub> gas and study its properties. (Practical)
5 <sup>th</sup>	<b>1</b> st	Preparation of NH₃ gas and study its properties. (Theory)
	2 <sup>nd</sup>	Preparation of NH₃ gas and study its properties. (Practical)
6 <sup>th</sup>	<b>1</b> st	Types of solutions. General process of crystallization
	<b>2</b> <sup>nd</sup>	Crystallization of Copper sulphate from copper carbonate.(Theory)
7 <sup>th</sup>	<b>1</b> st	Crystallization of Copper sulphate from copper carbonate.(Practical)
	<b>2</b> <sup>nd</sup>	Volumetric Analysis, Acid- Base indicators
8 <sup>th</sup>	1 <sup>st</sup>	Procedure of acid-base titrations ( Acidimetry)
	2 <sup>nd</sup>	Acid-base titrations ( Acidimetry)- Practical
9 <sup>th</sup>	1 <sup>st</sup>	Procedure of acid-base titrations ( Alkalimetry)
	2 <sup>nd</sup>	Acid-base titrations ( Alkalimetry)-Practical
	<b>1</b> st	Systematic Qualitative analysis ( theory)
10 <sup>th</sup>	2 <sup>nd</sup>	Systematic Qualitative analysis ( theory)
<b>11</b> <sup>th</sup>	1 <sup>st</sup>	Tests for acid radicals (Known): (i) Carbonate, (ii) Sulphide,
	2 <sup>nd</sup>	Tests for acid radicals (Known):  (iii) Chloride,  (iv) Nitrate and  (v) Sulphate.
12 <sup>th</sup>	1 <sup>st</sup>	Tests for basic radicals (Known) (i)Aluminium (ii)Zinc
	2 <sup>nd</sup>	Test for basic radicals (known) (i) Calcium ion (ii) sodium ion (iii) potassium ion
13 <sup>th</sup>	1 <sup>st</sup>	Test for unknown acid radical
	2 <sup>nd</sup>	Test for unknown basic radical
<b>14</b> <sup>th</sup>	1 <sup>st</sup>	Test for unknown salt (composed of one basic radical and one acid radical)
	2 <sup>nd</sup>	Test for unknown salt (composed of one basic radical and one acid radical)