No	Information on subject (2019-2020)	
1	Unit name	Non ferrous and ferrous metallurgy I
2	Code	Met-51016
3	Classification	Engineering subject
4	Credit value	2.5
5	Semester/Year offered	1/5
6	Pre-requisite	Engineering chemistry
7	Mode of delivery	Lecture, Tutorial and Assignment
8	Assessment system and breakdown of marks	
	Test	30%
	Mid-term/ final examination	70%
9	Academic staff teaching unit	
10	Course outcome of unit; In this course, students will be able a. to explain the types of ores, occurrence and extraction methods of these materials b. to understand the mechanism of different types of metallurgical furnaces c. to select the extraction method depending on the type of mineral and concentrate d. to solve the non ferrous metal extraction problems	
11	Synopsis of unit; The course covers about the non ferrous metal. This course contains the extraction method of gold, copper, zinc, lead, tin and silver and the extraction problems concerned with cyanidation and distillation.	
12	Topic 1 Gold 2 Copper 3 Zinc 4 Lead 5 Tin 6 Silver -Problems [cyanidation and distillation]	

13	Main reference; W.H.Dennis: Metallurgy of the non ferrous metals Tarkel Rosenqvist; Principles of extractive metallurgy Allison Butts; Metallurgical problems
14	Addition Reading Material;