

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

This course outline template acts as a guide for writing your course outline. As every course is different, please feel free to amend the template/ format to suit your requirements.

COURSE OUTLINE			
Course Title & Code	Process Metallurgy Laboratory & MTLR10		
Programme & Semester	B.Tech & III	No. of Credits	01
Department	MME	Faculty	Mrs. G. Kavitha
Pre - requisites	MTPC14		
Course Code			
Course Coordinator(s) (if, applicable)	Dr. S. Kumaran		
Other Course			
Teacher(s)/Tutor(s)	<u>kavi@nitt.edu</u>	Telephone No.	9952884059
E-mail			
Course Type	<input type="checkbox"/> ELR		
COURSE OVERVIEW			
This laboratory course presents the clear picture of experiments about the extraction conditions and technologies involved in the ore dressing and mineral processing.			
COURSE OBJECTIVES			
To learn about the properties of minerals; to become familiar with equipment used in mineral processing, by means of experiments / demonstration of laboratory scale equipment			
COURSE OUTCOMES (CO)			
Course Outcomes	Aligned Programme Outcomes (PO)		
1. To obtain the skills for physical observation of minerals / ores	1, 2		
2. To obtain the ability to perform sieve analysis	2		
3. To obtain the ability to observe comminution and to perform related calculations	1, 2, 5		
4. To become familiar with mineral beneficiation operations	2, 8, 10, 11		

COURSE TEACHING AND LEARNING ACTIVITIES				
S.No.	Week	Topic	Mode of Delivery	
1	1 st Week	Sieve analysis	Chalk and Talk and Experiment	
2	2 nd Week	Sedimentation and decantation		
3	3 rd Week	Determination of size distribution in sample		
4	4 th Week	Jaw crusher		
5	5 th Week	Bomb Colorimeter		
6	6 th Week	Viscosity Measurement		
7	7 th Week	Heavy medium separations		
8	8 th Week	Froth floatation		
9	9 th Week	Observations of mineral samples		
10	10 th Week	Observations of furnaces		
S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Assessment I (Record, Observation and lab Experiment))	1st to 10th Week	3 Hrs	75%
2	Assessment II (Final Experiment Written test and Viva)	11 th Week	3 Hrs	25%

COURSE EXIT SURVEY (mention the ways in which the feedback about the course is assessed and indicate the attainment also)

1. The exit survey will be assessed based on the questionnaire prepared by the Institute/class teacher and the expected attainment to be greater 75%. The feedback collected from students by the Institute is to be informed to the teacher to improve the course in future semesters.
2. Students can meet the faculty at any stage in the course duration in case he/she find difficulty in understanding the concepts

COURSE POLICY (including plagiarism, academic honesty, attendance, etc.)

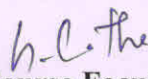
1.Examination

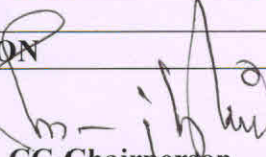
- a) The students are expected to attend all the classes except for medical reasons. Minimum attendance of 75% (including the concession for on-duty and medical reasons) is required for writing the semester examination.
- b) The relative grading policy will be followed and the passing minimum marks will be fixed based on Institute guidelines.

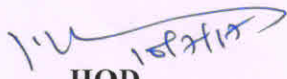
ADDITIONAL COURSE INFORMATION

Nil

FOR SENATE'S CONSIDERATION


Course Faculty
G. Kavitha


CC-Chairperson
Dr. S. Kumaran


HOD
Dr. S. P. Kumaresh Babu