Birla Institute of Technology & Science, Pilani
Hyderabad Campus

SECOND SEMESTER 2018-2019
Course Handout (Part II)

Date: 07.01.2019

This portion gives specific details regarding the course.

Course Number	**CHEM F341**
Course Title	**Chemical Experimentation II**
Instructor-in-charge	**Dr. Subit Kumar Saha**
Team of Instructors	**Dr. Subit Kumar Saha, Dr. Balaji Gopalan, Dr. Amit Ashok Vernekar, Ms. Karuna Anna Sajeevan, Ms. Sruthi Peesapati, Ms. Swapna C.**

1. Course Description: This course is based on the exposure to laboratory experiments in different fields of chemistry. The course is normally available to students of third year onward or higher level.

2. **Scope and Objective:** The main objective of this course is to educate the students with different aspects of Chemistry Experiments in advanced level. The students will carry out set of experiments that will expose them and make them to learn to various experimental techniques in Inorganic, Physical and Analytical Chemistry. Inorganic chemistry experiments will mainly involve group analysis of cations and anions. Some quantitative inorganic volumetric analysis will also be performed. Analytical chemistry experiments will cover specialized quantitative analysis of different samples. Experiments in physical chemistry will include determination of partition coefficient, phase diagram determination, kinetics etc.

3. Text Book(s):
The procedure for all the experiments will be made available
a. Qualitative inorganic analysis by A. I. Vogel.
b. Quantitative inorganic analysis by A. I. Vogel.
c. Qualitative organic analysis (2nd Indian Edition) by A. I. Vogel. CBS Publishers and Distributors.

4. Reference Book: Reference sources for each experiment will be specified as necessary.

5. Course Plan: The students will perform a number of experiments in Inorganic, Physical and Analytical Chemistry areas with an emphasis on individual planning and execution of the experiments.

Broad Classification	No. of classes
Inorganic Qualitative Analysis	5
Analytical Chemistry Experiments	10
Physical Chemistry Experiments	5

6. Evaluation:

Component	Duration	Weightage (%)	Date& Time	Venue of Lab
LABQUIZ-1*	-	10	Will be announced	
LABQUIZ-2	-	10	Will be announced	B-124/126
Laboratory Work, Reports	-	60	Continuous	
Comprehensive Lab Exam	3 hrs	20	Will be announced by IC	

i.Quiz will be conducted twice in the entire course, once in the month of February and another in late March/ early April, during lab class hours and will be based on experiments covered until the date of the quiz. **Make-up will not be granted for quiz.**

ii. **The students should assemble at labs by 1.55 PM strictly and should have printed Lab Manuals for the concerned experiment. This is mandatory and no exceptions would be tolerated.**

iii. Laboratory Conduct and Record maintenance will be given due importance in the evaluation.

7. Laboratory safety: It is MANDATORY to wear personal protective equipment (PPE) in the laboratory, such as Lab-coat, Covered shoes, and Safety goggles (as applicable).

8. Make-up policy: Make up will be granted for genuine cases only. Make-up will not be granted for quiz.

9. Notice: All notices concerning the course will be displayed on the Chemistry Department Notice Board and CMS.

10. Final grading will be done on the basis of the overall performance of a student in each of the components as listed in item no. 6.

11. Academic Honesty and Integrity Policy: Academic honesty and integrity are to be maintained by all the students throughout the semester and no type of academic dishonesty is acceptable.

For mid-semester grading, progress made by a student up to that point of time would be evaluated.

STUDENTS WON'T BE ALLOWED TO PERFORM ANY EXPERIMENT WITHOUT PPE.

Subit Kumar Saha

Instructor-in-charge
CHEM F341