The final certification and acceptance of TW ensures the satisfactory performance of laboratory work and minimum passing in the TW.

Course Code	Course Name	Teaching Scheme (Contact Hours)				Credits Assigned			
		Theory Pract.		act.	Tut.	Theory	Tut.	Pract.	Total
FEL202	Engineering Chemistry-II	-		1	-	-	-	0.5	0.5
Course Code	Course Name	Examination Scheme							
		Theory							
		Internal Assessment			End	nd Exam.	Term	Pract.	Total
		Test1	Test 2	Avg.	Sem. Exam.	Duration (in Hrs)	Work	/oral	Total
FEL202	Engineering Chemistry-II						25		25

Outcomes: Learner will be able to...

- 1. Determine moisture and ash content of coal
- 2. Analyze flue gas
- 3. Determine saponification and acid value of oil
- 4. Determine flash point of a lubricating oil
- 5. Synthesize a drug and a biofuel.
- 6. Determine na/k and emf of cu-zn system

## **Suggested Experiments**

- 1. Determination of Moisture content of coal.
- 2. Determination of Ash content of coal.
- 3. Flue gas analysis using Orsat's apparatus.
- 4. Saponification value of oil
- 5. Acid value of oil
- 6. Determination of Na/K by Flame photometry.
- 7. Preparation of Biodiesel from edible oil.
- 8. To estimate the emf of Cu-Zn system by Potentiometry.
- 9. Synthesis of Aspirin.
- 10. Determination of Flash point of a lubricant using Abel's apparatus

## Term work:

Term Work shall consist of minimum five experiments.

The distribution of marks for term work shall be as follows:

Laboratory work (Experiments and Journal): 10 marks
Assignments and Viva on practicals: 10 marks
Attendance (Theory and Practical): 05 marks

The final certification and acceptance of TW ensures the satisfactory performance of laboratory work and minimum passing in the TW.