SE Electronics Engineering
Semester III
Syllabus of Laboratory

Subject Code	Subject Name	Teaching Scheme			Credits Assigned			
		Theory	Practical	Tut.	Theory	TW/Pract.	Tut.	Total
EXL301	Electronic Devices Laboratory	--	02	-	--	01	-	01

Sub. Cod	Subject Name	Examination Scheme							
		Theory Marks				TW	Pract and Oral.	Oral	Total
		Internal Assessment			End Semester Exam				
EXL301	Electronic Devices Laboratory	Test 1	Test 2	Average of Test1 & Test2					
		--	--	--	--	25	50	--	75

Syllabus: Same as that of Subject EXC 302 Electronic Devices

Term Work:

At least **10** experiments covering entire syllabus of **EXC 302 (Electronic Devices)** should be set to have well predefined inference and conclusion. Computation/simulation based experiments are encouraged. **Therefore at least 5 simulation experiments to be carried out (out of total 10 Expts.).** The experiments should be students' centric and attempt should be made to make experiments more meaningful, interesting and innovative. Term work assessment must be based on the **overall performance** of the student with **every experiment graded from time to time.** The grades should be converted into marks as per the **Credit and Grading System** manual and should be **added and averaged**. The grading and term work assessment should be done based on this scheme.

The final certification and acceptance of term work ensures satisfactory performance of laboratory work and minimum passing marks in term work. Practical and Oral exam will be based on the entire syllabus.

Guidelines for Simulation Experiments:

1. One SPICE simulations and implementation for junction analysis
2. One SPICE simulation and implementation for BJT characteristics
3. One SPICE simulation and implementation for JFET characteristics
4. One SPICE simulation and implementation for Optical devices
5. One SPICE simulation and implementation for power devices
6. One SPICE simulation for MOSFET characteristics