

ESC201 2025-26 Semester-I

Lab Evaluation, Lab Experiments and Weekly Lab Schedule

Lab Evaluation:

Total 11 labs are scheduled along with two make-up labs. Best 10 labs will be considered for grading. Weekly evaluation based on lab performance and record keeping: **10 labs × 2% each = 20% in total.** Final lab examination will be **only one written final lab quiz** which will carry **5% in total.**

Lab Experiments:

Lab	Topic of Experiments
L0.	Familiarization of Lab Instruments: Function Generator and Oscilloscope
L1.	DC and AC Sources, Active Probing, I-V Characteristic, Power Dissipation
L2.	Network Theorems: Thevenin Equivalent and Superposition Principle
L3.	Time and Frequency Domain Analysis of First Order RC & RL Circuits
L4.	Frequency Response of Second Order RLC Circuits, Resonance, Power Transfer
L5.	Normal Diodes and Zener Diodes: I-V Characteristics and Applications
L6.	Transfer Characteristics of Transistor Circuits and Amplification
L7.	Operational Amplifier: Applications in Negative Feedback
L8.	Operational Amplifier: Applications in Open Loop and Positive Feedback
L9.	Digital Electronics: Logic Gate Design using Transistors
L10.	Digital Electronics: Combinational Circuit Design using Logic Gates

Weekly Lab Schedule: Monday to Friday (+Saturday Shift): 2:00 pm – 5:00 pm

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01: J28 – A02				Class starts	None	None
02: A04 – A09	L0	L0	L0	L0	L0	#None
03: A11 – A16	L1	L1	L1	L1	Holiday	Long Weekend
04: A18 – A23	L2	L2	L2	L2	L1	#Friday L2
05: A25 – A30	L3	L3	L3	L3	L3	*Friday L4
06: S01 – S06	L4	L4	L4	L4	Holiday	Long Weekend
07: S08 – S13	L5	L5	L5	L5	L5	*Makeup-1 M
08: S15 – S20	No Activity	Mid-Sem Exam: 16 September – 22 September				
09: S22 – S27	Mid-Sem	Makeup-1 Tu	Makeup-1 W	Makeup-1 Th	Makeup-1 F	Long Weekend
10: S29 – O04	Mid-Sem Recess					
11: O06 – O11	L6	L6	L6	L6	L6	None
12: O13 – O18	L7	L7	L7	L7	Antaragni	Antaragni
13: O20 – O25	Holiday	L8	L8	L8	L7	*Wednesday L9
14: O27 – N01	L8	L9	L10	L9	L8	#Monday L9
15: N03 – N08	L10	L10	Holiday	L10	L9	#Friday L10
16: N10 – N15	Makeup-2 M	Makeup-2 Tu	Makeup-2 W	Makeup-2 Th	Makeup-2 F	No Activity
17: N17 – N22	End-Sem Exam: 17 November – 26 November					

1. Labs marked # on Saturdays are scheduled according to the academic calendar 2025 shared by the DOAA.
2. Lab marked * on Saturdays are scheduled as compensatory labs on Saturday from 2 pm to 5 pm.
3. **The final lab quiz will be held with the end semester examination.**