

EL-227 Digital Logic Design- Spring 2021

Mini Projects

Date: 24th March-21

Important Note:

- Besides below mentioned projects the students **self-proposed ideas would be equally appreciated**, provided they are in accordance with the course content.
The group should consist of 2 to 4 members depending upon the scope of the project.
- The proposal should be submitted in hard copy only and must be in the template discussed below.
- No hand written and emailed proposal will be accepted
- The students are advice to start working on the project soon after the proposal approval.
- The project assignment will be on first come first serve basis.
- Exact one month will be given to complete the project.
- Date for viva and submission of project along with report will be announced later.



Deadline for Proposal Submission is Sunday, 28th March, 2021

Proposal Submit in Soft Copy on Google Class Room Only

Proposal Pattern:

The proposal should be written in the following format

- 1- Group member's names & Roll numbers*
- 2- Project's objective (Two- line)*
- 3- Components used (list of important components and ICs used in the Project)*
- 4- Circuit Diagram*
- 5- Abstract, including brief description of your project along with the areas/topics/concepts the project is going to cover. (At least two to three lines and at most one paragraph.*

Some Project Ideas:

<i>S. No.</i>	<i>Project Title</i>	<i>Maximum Number of Group Members</i>
1	Buzzer Game	3-4
2	4-way Traffic Control Signal	2-3
3	8-way Traffic Control Signal	3-4
4	Electronic Combination Lock	depends on the design
5	Digital Clock	3
6	Digital Clock with Alarm	4
7	Stop Watch	3
8	Temperature Sensor	3
9	Water Level Detector	depends on the design
10	Frequency Counter	4
12	TIC TAC TOE Game	4
13	Electronic Score Board	3-4
14	ASCII Character Display	4
16	Remote Application Controller	depends on the design
17	Arithmetic & Logic Unit	4
18	Error Detection & Correction System	depends on the design
19	Code Converter	depends on the design
21	Billing System	4
22	Color Organ	3-4
23	Programmable Logic Array	depends on the design
24	Automatic Teller Counter	4
25	Elevator Control System	4
26	PC Based Home Automation System	4
27	IC Tester	4
28	16-bit RAM	4

Any new idea will be highly appreciated.

Useful Links:

<http://nevonprojects.com/microcontroller-based-projects/>