



**SNJB'S Late Sau K B Jain College of Engineering, Chandwad**  
**Department of Electronics & Telecommunication Engineering**

Academic Year: 2022-23	Class: SE
Semester: I	Date: 1/8/2023

**Title of Innovation method/activity:** Virtual Lab

**Name of Faculty:** Prof. Thakare S.S.

**Subject:** Digital Circuits.

**Objective:** To provide a complete Learning digital simulation around the Virtual Labs where the students/ teachers can avail the various tools for learning, including assignments, video-lectures, animated demonstrations and self-evaluation.

**Topic Covered through Activity:** Water level Control Using Basic Gates.

**Benefits:** Virtual laboratories that help students to learn the empirical and practical aspects of their studies to enable a complete understanding of their topics. The virtual laboratories are flexible by nature and they help to explore a wide range of experimental conditions more easily and quickly.

**The method:**

- Students go through Virtual lab.
- Demonstrate the Simulation with given assignment.
- Test given through virtual lab.

**Assessment Tools & Rubrics:**

- 1 Mark for each correct answer.

**Evaluation Sheet:**

<b>Sr. No.</b>	<b>Candidate Name</b>	<b>Marks</b>
1	Jadhav Chetan Balu	4
2	Tellewar Yash Omkar	3
3	Gulve Sanika Rajendra	4
4	Vadaje Rahul Prabhakar	4
5	Nikam Aarti Shravan	5
6	Deore Priyanka Kiran	5
7	Aher Aman Anil	2
8	Sonawane Chaitanya S.	2
9	Kothawade Tejas Rajendra	4
10	Borse Harshda Umesh	AB
11	Patil Bhagyashri Vijaysing	4
12	Bhandare Aditya Pramod	AB
13	Waghchoure Sagar Anil	5
14	Patel Mrunal Narottam	AB
15	Shaikh Kaif Javeed	AB
16	Davande Vaibhav Namdev	3
17	Shinde Mauli Vishwanath	5
18	Patil Jay Ravindra	2

19	Patil Yash Govind	3
20	Ghangale Vishakha Pramod	4
21	Pawar Rutuja Suresh	4
22	Mahajan Vaishnavi Suhas	4
23	Suryawanshi Janhvi P.	5
24	Bhamare Pratik Sachin	5
25	Surve Pranjal Devidas	4

### Impact Analysis (Show the impact of the activity in SPPU examination)

- It's very helpful for Project based learning & Mini Project Work.

Sr.No.	Seat Number	Name of Student	Practical Marks in SPPU Exam
1	S190413001	AHER AMAN ANIL	33
2	S190413002	BAGDANE RANI SUDHAKAR	40
3	S190413003	BHAMARE PRATIK SACHIN	43
4	S190413004	BHANDARE ADITYA PRAMOD	32
5	S190413005	BORSE HARSHDA UMESH	38
6	S190413006	CHAITANYA SHANTARAM SONAWANE	36
7	S190413007	CHAVAN NILAM KAILAS	37
8	S190413008	DAVANDE VAIBHAV NAMDEV	34
9	S190413009	DEORE PRIYANKA KIRAN	39
10	S190413010	DESALE SAVITA VASANT	40
11	S190413011	GANGURDE RUPALI WAMAN	41
12	S190413012	GHANGALE VISHAKHA PRAMOD	40
13	S190413013	GULVE SANIKA RAJENDRA	42
14	S190413014	GUNJAL PAYAL PRASHANT	40
15	S190413015	JADHAV CHETAN BALU	41
16	S190413016	JADHAV DHANASHREE BHAUSAHEB	36
17	S190413017	KAIF JAVEED SHAIKH	40
18	S190413018	KOTHAWADE TEJAS RAJENDRA	40
19	S190413019	MAHAJAN VAISHNAVI SUHAS	41
20	S190413020	MAHEKAR PRERNA RAVINDRA	40
21	S190413021	NIKAM ARTI SHRAVAN	40

22	S190413022	PATEL MRUNAL NAROTTAM	34
23	S190413023	PATIL BHAGYASHRI VIJAYSING	36
24	S190413024	PATIL JAY RAVINDRA	37
25	S190413025	PATIL YASH GOVIND	38
26	S190413026	PAWAR RUTUJA SURESH	40
27	S190413027	RAHUL PRABHAKAR VADAJE	35
28	S190413028	SHINDE MAULI VISHWANATH	42
29	S190413029	SONAWANE HARSHADA RAJARAM	41
30	S190413030	SURVE PRANJAL DEVIDAS	41
31	S190413031	SURYAWANSHI JANHAVI PRABHAKAR	40
32	S190413032	TELLEWAR YASH OMKARRESHWAR	34
33	S190413033	WAGHCHOURE SAGAR ANIL	43

- **Activity Picture (Add picture of the activity if possible)**

Virtual  
Labs

An MoE Govt of India Initiative

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Electronics and Communication Engineering > Digital Applications > Experiments

- Aim
- Theory
- Pretest
- Procedure
- Simulation
- Posttest
- References
- Feedback

### Water level control using basic AND & NOT gates

The Boolean expression for the circuit shown below is:

a:  $Y = A' B'$   
 b:  $Y = (A + B)$   
 c:  $Y = (A.B)'$   
 d:  $(A + B)'$

The circuit given below behaves as a

**For review and critique contact: e-mail address of faculty and HOD**

[thakare.sscoc@snjb.org](mailto:thakare.sscoc@snjb.org) or [hodentccoc@snjb.org](mailto:hodentccoc@snjb.org)

**Subject In charge**

**Prof. Thakare S.S.**

**Module Coordinator**

**Prof. Baste S.B.**

**HoD**

**Prof. Dr. Agrawal R K**