



## YOUTUBE VIDEOS LECTURES LIST

Following video lectures are very useful for the students of 12<sup>th</sup> standard electronics. Watch every lecture and understand the topics given in our notes.

If you don't have the notes of Vidyasagar Academy, you can place online order at following link:

<https://www.instamojo.com/vsastore/12th-standard-electronics-complete-notes-set/>

### APPLIED ELECTRONICS (PAPER-1)

1. Working of IC 555 using block diagram: <https://www.youtube.com/watch?v=T1jnHC9Qgvc>
2. Working of IC 555 as pulse position modulator: <https://www.youtube.com/watch?v=xV4gKq2ENzw>
3. IC 555 burglar alarm: <https://www.youtube.com/watch?v=oEghKKn7-gw>
4. IC 555 soft touch door lock: <https://www.youtube.com/watch?v=m7xA2oNEaQ8>
5. IC 555 infrared burglar alarm: <https://www.youtube.com/watch?v=pepGmMx08II>
6. IC 555 simple burglar alarm: <https://www.youtube.com/watch?v=s6xogvotl4o>
7. IC 555 head or tail project: <https://www.youtube.com/watch?v=fva47xli7Rg>
8. IC 555 adjustable duty cycle: <https://www.youtube.com/watch?v=ICBuvrrPjHY>
9. Working of Tank Circuit: <https://www.youtube.com/watch?v=JJw2OLuZISE>
10. Opamp as inverting amplifier, Lecutre-1: <https://www.youtube.com/watch?v=tqJesMBDADY>
11. Opamp as inverting amplifier, practical demo: <https://www.youtube.com/watch?v=DGAuySkR6gM>
12. AC mains operated fuse indicator cum pilot lamp: <https://www.youtube.com/watch?v=zsND5sFyFQ8>
13. Animated working of half wave rectifier: <https://www.youtube.com/watch?v=Kow5x10hiGY>
14. Animated working of full wave rectifier: [https://www.youtube.com/watch?v=Hw\\_vUOQCfzU](https://www.youtube.com/watch?v=Hw_vUOQCfzU)
15. Animated working of bridge rectifier: <https://www.youtube.com/watch?v=p4usPFfIHpc>
16. Fundamental concepts in basic electronics: <https://www.youtube.com/watch?v=yVDDE-sWHos>
17. Study of components: <https://www.youtube.com/watch?v=b6DWOx43eyQ>
18. Semiconductors and diodes: <https://www.youtube.com/watch?v=aInwMkeDyw8>
19. Unipolar & bipolar transistors: <https://www.youtube.com/watch?v=aInwMkeDyw8>
20. Fundamentals of differential amplifier: <https://www.youtube.com/watch?v=jZU0U5aaVdk>
21. How to check components using DMM: <https://www.youtube.com/watch?v=H-no7nxJstc>

### DIGITAL ELECTRONICS (PAPER-2)

1. NAND gate as NOT gate: <https://www.youtube.com/watch?v=ukeiOI9Ioc8>
2. Understanding full adder: <https://www.youtube.com/watch?v=7NqUpsQru8o>
3. RS FF using NAND & NOR gates: <https://www.youtube.com/watch?v=OyEYA8kNFZM>
4. Combinational logic circuits Lecture #1: <https://www.youtube.com/watch?v=RsMv0iVspLc>
5. Working of decoder using IC 7447/48: <https://www.youtube.com/watch?v=EXZ7Wv0fRMY>
6. Simple explanation of 4:1 line multiplexer: <https://www.youtube.com/watch?v=SFkORQXrJ9A>
7. Simple explanation of 1:4 line de-multiplexer: [https://www.youtube.com/watch?v=3ow6-\\_6FgLQ](https://www.youtube.com/watch?v=3ow6-_6FgLQ)
8. Understanding De Morgan's theorems: <https://www.youtube.com/watch?v=qvJqqPSPz54>
9. Understanding full adder: <https://www.youtube.com/watch?v=rnJVANIDvnm>
10. Understanding full adder-2: <https://www.youtube.com/watch?v=7NqUpsQru8o>
11. Working of IC 7483, 4 bit binary adder: <https://www.youtube.com/watch?v=nZEh1Nn2Ujw>
12. Decoder using IC 7447: [https://www.youtube.com/watch?v=tKD4IX\\_YmDo](https://www.youtube.com/watch?v=tKD4IX_YmDo)
13. Binary Number System (Part-1): <https://www.youtube.com/watch?v=OQhwZg8-ugE>