

Assignment 10

Class-SEIV

POIL NO - 21430

Batch - F4

DOS-14/01/2021

Title: Realization of MOD-N counter using (Decade counter IC 74.90)

objectives -

To verify IC 7490.

ii) To design and implement MOD-20.

ii) To design and implement MOD-96

Apparatus: Digital trainer kit, Ic 7490, patch cords, +5v power supply.

Theory -:

To 7490 is a TTL MST decade counter that

counts ten digits and it resets for every new

clock inputs. As it can go through 10 unique

combination of output if is also called as

Decade Counter. A BCD counter can count

0000,0001,0010,1000,1001,1010,1011,1110,

1111,000 and 0001 and so on There are

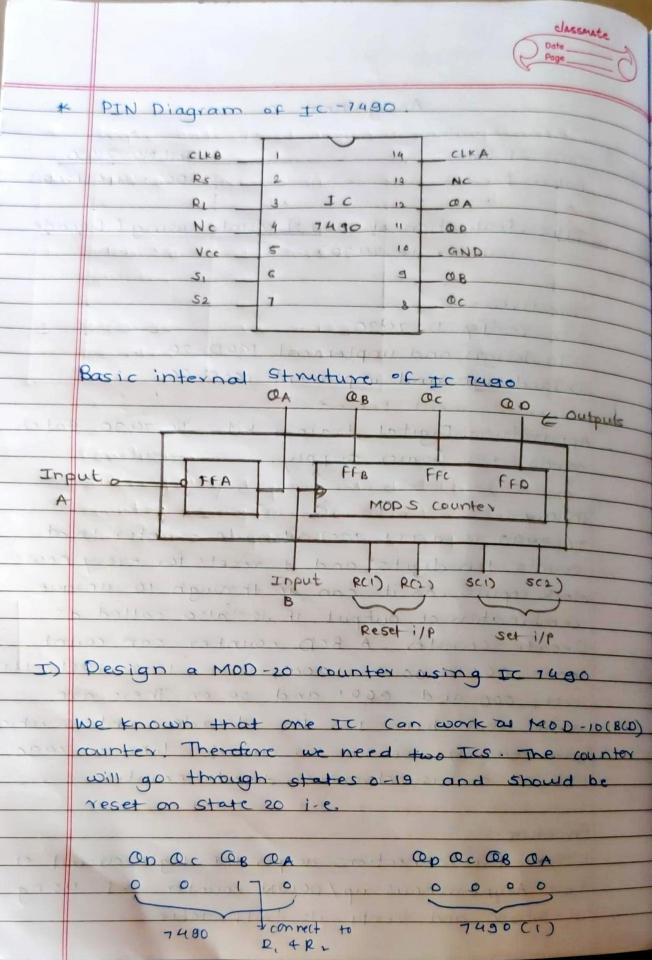
some available TCS for decade counters which

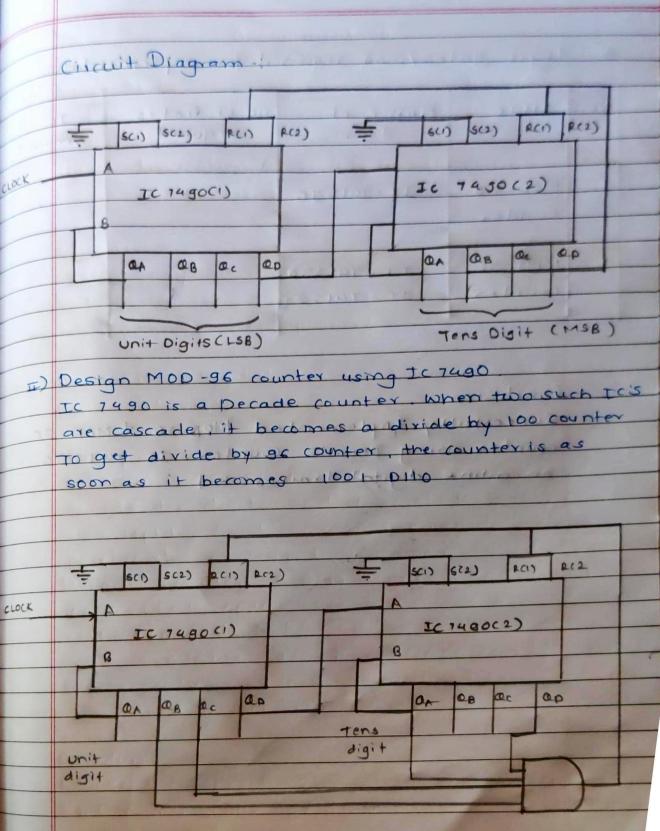
can readily use in our circuits like to 7490.

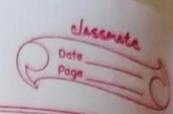
This an asynchronous decade counter.

Procedure -

1. Make the connections as per the togic circuit of 3 bit Asynchronous up/pown counter at using IC-741590 and verify its truth table







*	logic gates/MSI required for implementation			
No.	Title	Name of	no. of Gates required.	Te
1.	Mop-20 Counter	IC-741590	10032101	
2.	counter	IC-741521	1 13 82 15	
324	2 112 11		(All shed man	

Conclusion:

Successfully Implemented MoD-20 & MOD-96

counter using Decade Counter. IC-741590 on
an online digital trainer kit

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