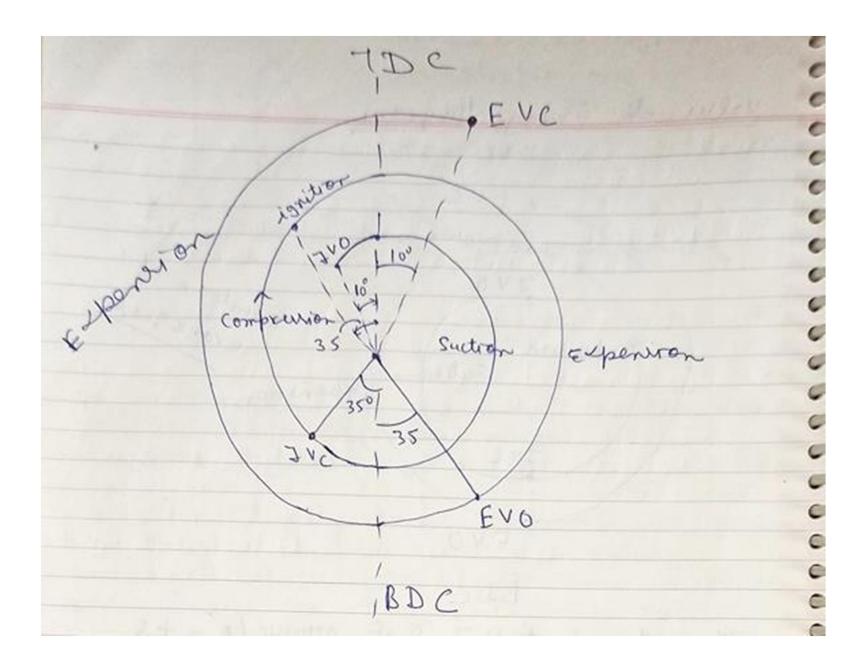
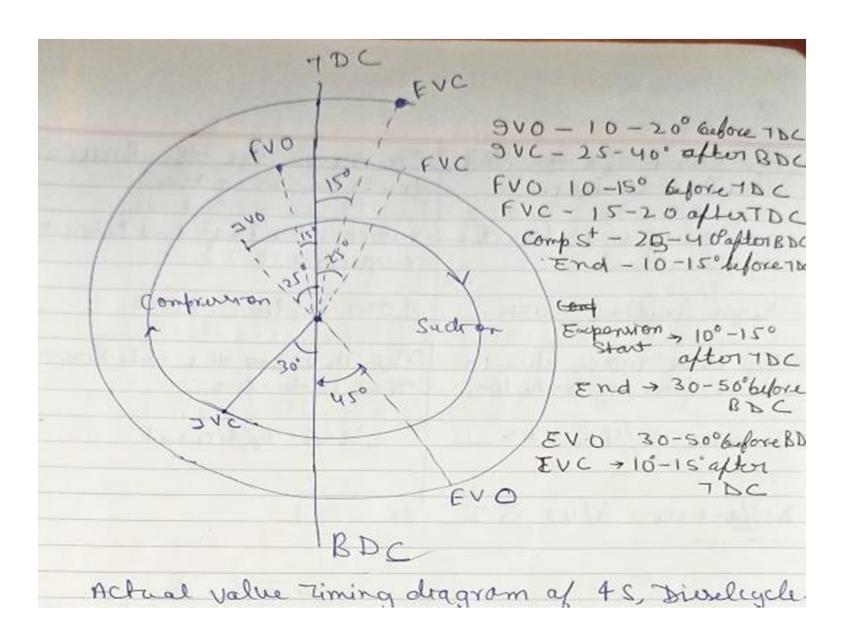


Asst. Prof. Yastuti Rao Guatam Mechanical Engineering Department UIET, CSJM Univ. Kanpur 2222222222222 Value di Timing diagram EVC dignition Totatron of crank mall DVE compression Suction TVC 3 EVO 0 BDC 3 Theoxetical di V.T. Dof Otto cycle - 45

EVC o. Fue injector JVO Eachaust Compression Suction 149 毛VO



machual cycle Practice it is difficult to apen and classed the value instantaneously. So as to get beter performance of Engine the Value dimings are modified. before IVO -110°-20° TDC, IVC > 30-40° after BDC Compression Start - at 30-400 after BDC, Compression End - 20-30 before TDC grition take Place - 20-30° before & TDC Expension Start 20-30° before TDC Expension End at 30-50' before BDC



Difference 6/W - 2 Stroke and four stroke Engine Four strokes of Pistoner two stroke of Piston two stroke of Piston of two sevalution of Shaft. or one revolution afterents be cause of town shoke the as turning moment is Turning moment is not uniform smaller Elywhile larger fly wheel is wed is wed. I has Ports. it has valley

for same size the Power For same size the Power develope is more. Less cooling and Lubrication more coaling and Lubrication requirment. high initial cost Low initial cost. * My is be more due to more time of modultron My is lisson due to liver the Time induction. more Efficient less Efficient.

Difference 6/W SI & SI (1) It is bard on otto cycle it is bared on Devil cycle 2) Ful has high Self Low self ignition comp ignition comp 3) Carbwrater is used for Ful is injected with the homogenious Air Fuel vatro help of Ful injector in the Engine Cylinder 4) ignition occurs with ignition occurs due to spark elug high Compression) loga compousion vatro Compression rates in In Range of 6-10 the range of 16-20 righ speed due to Smaller Low speed as the wet. Engine are Bulcky Low Efficiency due to smaller high n due to large compression ratto compaision rato Lighter

Reference

- Text Books
- V Ganeshan IC Engine, Sharma & Mathur IC Engine
- R.K. Rajput-Power Plant Engineering