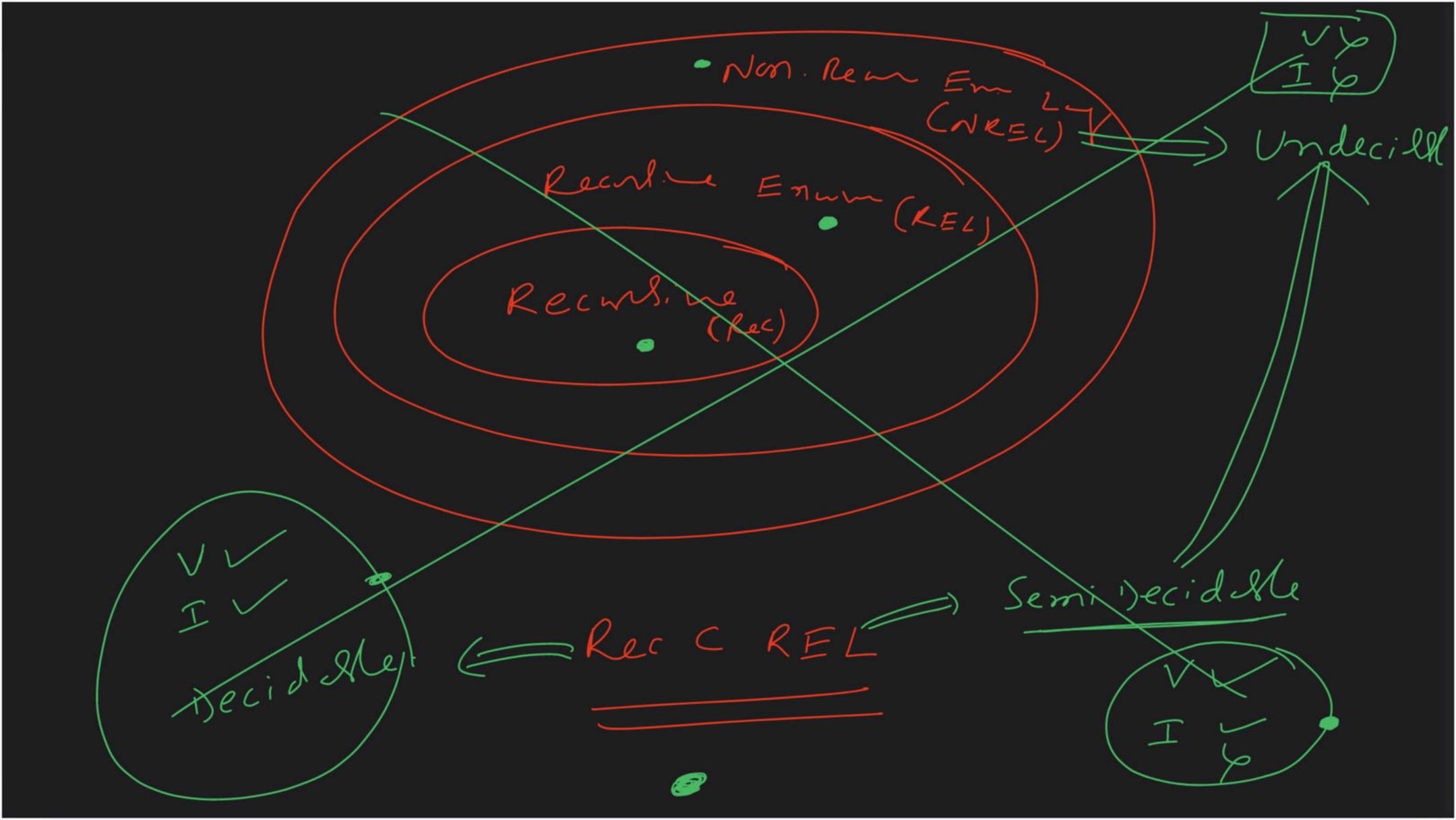


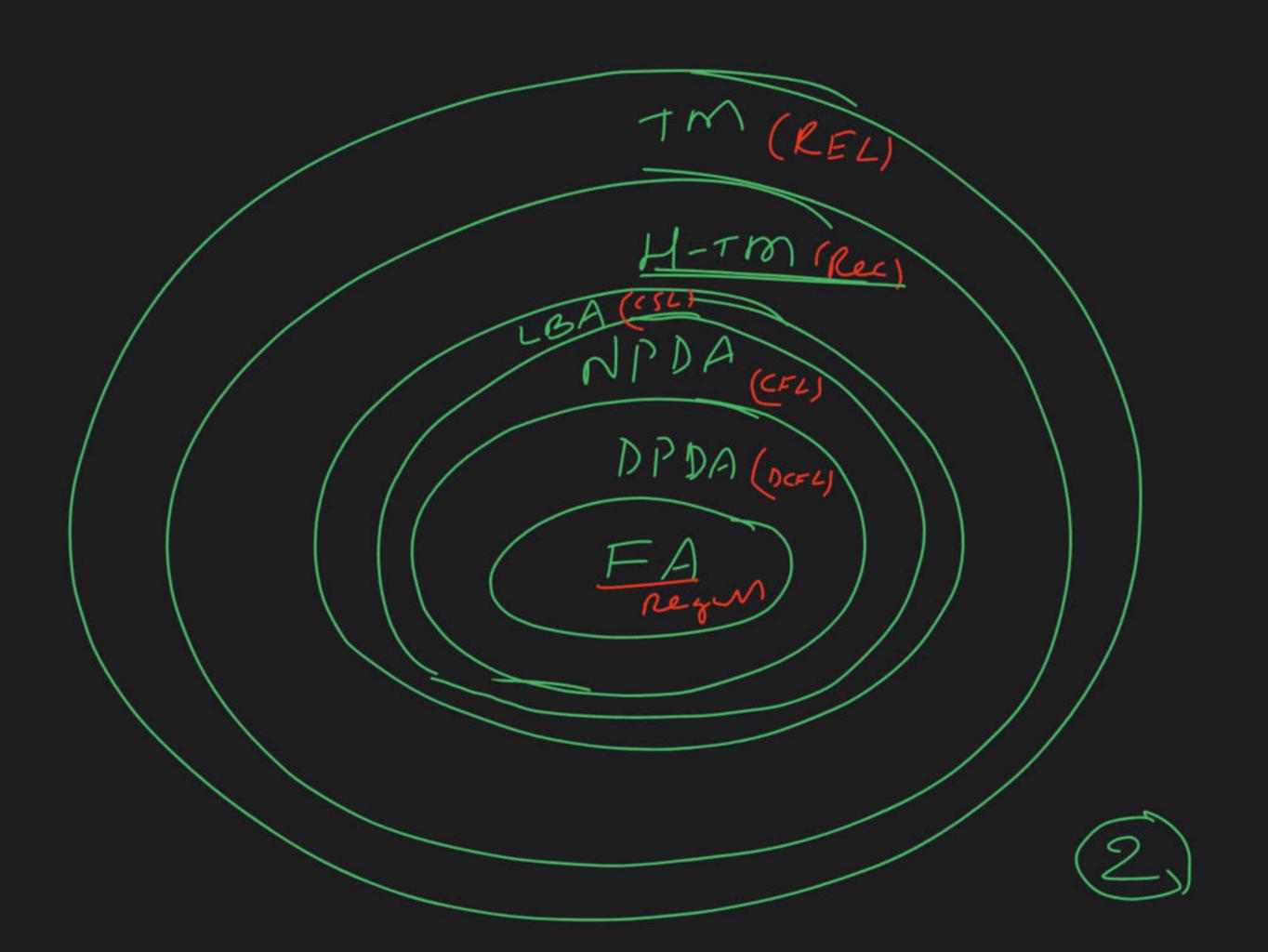
Complete Course on Theory of Computation



Langungel Recordine Lagrel YWEL => +M - Hall - Final HWGL => +m- Halt-Non-Find Hally-Ton Hally-Ton Halgo broham.

Reinsine Eonmande Lagres HWEL => TM-HM-Final HWGL => TON-HMH-NonFin +M-may gobo inhinite lupp.





Clhone moperal

Rec

Recu Rec = Recv

Rec - Rec

Regul CFL By

REL

RELUREL = REL

RELAREL = RELV

O RECORFL O RELOREL - REL

2) RELUREL = REL

Conclination

REL V

need not be Rec = Rec Complement time Complementition

Lis Decidable

- (1) HWEL TON- HAM. Final HWAL TOM- HAM. WON- = inal
- 2) H-4-10 PSS:86e
- 3) Al 20 PM: 86.
 - (4) L- H-TM

Lis semi-decideble (Lis REL) (1) Lhas Tm but L'has no-Tm (2) Lis REL but L'is non-REL (3) HWEL has lugic HW4L no-logic 4) L has program (TMV)

Lis non-REL

(1) L has no- Too

2) HWEL no-logic

7

Laguers Non-REL Un-decidence Rec non-Rec Decidable Semi-Decidelle

1.96 Lis Rec then L'allo Rec. 2. 9 Lis REL 92 L'also REL then L should be Rec.

3. If LIJ REL & L' is non-REL then

Lin not Rec.

(9)

· Lis non-rec

but REL

LC = non-rec

Lis Rel L'is allo Rel Lis Rec.

10)

Ogt Lis rec then L'also rec Re - nec 2) of Lis Rel Item L non-Rel then I is non-rel (3) 9/ Lis Rel but not rec

