	(1)
Week 3- Negative feedbarde	
Main points:  - the basic pringer of negative	
- the basic pricipil of negative	,
feedback	
- Neg feedback tends to lead	
10 Stabely	
Cos = instabilist	
- Stabilis w/out controls	
- Relays in feedbach loops	
todaes	
Stable à unstable equilibrai: Most ints to neg teelebact controls	
· That I'ms is neg reelabact controls	
Stable equibria « s Unstabelle	
L O V	
JOK A	
JOKA MARAN	
« Slable = down to a point	
· unstable= can be balanced by force we	1
Change point. Hard to help	@ pul

- Standing up straight is an example

of an unstable equib

An upright object we no stabilis

will habitally fall

ive use negative geodback to

adjust a control our upright

bodus

Nogatrie feedback (ontrol

Controlled system often regioned to as the Plant

Output of sys = controlled variable

Cefence right Described Plant output

Nes feedbas control = Error pared Cont

e convoins c

Plant

O - oupt

Ter - A

Error

Consort

o Actual ocupant of Plant is fed back to the controller sometime on the error

· error : Des between prenied & actual

	)
.0.0	4

Sensors often have delays ar imperged las of feedback syrrens - Prones x fluid agonics - A fleery vechicis - unit gen On paper example: ( -> 0 -> e -> c -> 0 (=10 k=0.1 t=0 0=0 each step the following call takes place: 0 = 0 + CE over the the output = the 10 0.9 input = 10 8.1

n 10 0