Scheduling Green house Goes Mitigation. By T Time Periods. R Resources IR C R Inventory Resources. Projects. D'Agest Depardences and available resource to 161 top

and available resource to 161 top

and invertory for ross.

O for resources which comment be

stored cost of project pop & million

of alimbo in the arms of million dur p direction in time parols of project COZMG Co, mitgeted (millions of tomes) get popular popular competion resource ron regured of project pop in time puried to compete compete competed lin million of Project Departures.

Budget our planning horizon.

Departures.

Depart

2021 Poper Theory (withinself) Assuming you don't have to do A projects but each project an only be dose onehat invertory amount for resource rOMA in percel for hat invertory amount for resource 15th in middle \$67

at \$6\{0}\{\} p - 0\{\} ext p \text{ for shorts in kine period}

if proped pt \text{ for it project p6P hishes in kine period}

both for accentasseppor

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\text{Zpt \$6\{0}\{\}\} \] / it project p6P hishes in kine period

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\text{ constation man \$2 \text{ Co2m6 } \text{ yp6}

\text{ an complete possible Completed at suration after starting

YP, (t+dup)

1-1 Z off the y is on before y is on Zpt. Sypt. HEET UpGP.

Budget Limit.

E & zept cost p & B. Resource requirements. Assume O starting inventory

Also assume if a resource becomes available

in a kne period that it can be used

in that time period as well as after if it

ean be stored

VII/2007 2027 Renormal (continued)

Constraints (continued).

Starting Frankry is o for all

Trentony hours dutined for CIR Assuming the project At In all time periods often the first resources

in invertory equal to previous period

invertory— used to produced to made audio

in previous pertion in companion into

hot = k, to - Ewptiges (pt.) Great. HEET (To). on completion of per tapt respet of after completion of a completion of a completion Set w. -) On when project is being completed.  $\omega_{pt} \geq \sum_{\xi' \in T} (y_{p\xi'} - x_{p\xi'}). \qquad \forall_{p \in P}. \ \forall t \in T$   $\xi' > \xi$ resource minimum of 9. inventory.

h > 10 Up GIR 4657.

h t = M Up GIR 4657.

Non stored ressources des com t be negative ( fart - Σωρτ·resrept. ≥ O treR IR.

per

+ Σ (ypt·respare + 2pt·respt)

This is then known which

projects can be showly 2021 Province (continued).
Project Rependencés.
B can't start before A. WAS UNSO ORANI Z 1 X depilot t'st depilot B count start until A ends  $x \in \mathcal{E} \text{ y(dep: E)}$   $x \in \mathcal{E} \text{ y(dep: E)}$   $x \in \mathcal{E} \text{ y(dep: E)}$   $x \in \mathcal{E} \text{ y(dep: E)}$ B and A in-composition.  $\sum_{t \in T} \left( \pi_{depicit} + \pi_{depicit} \right) \leq 1$ . With  $\left| n \cdot t \right| = 1$ . B must be done immediately after A ends y depiart = 1 = 20 depib, t \tilde{ET | de to the log that the log of the l ViED | nation = 1 HEET. Since log 77 ... = [ /69 ....

Gueskon 2 & 3 ge for prac. 2/11/2013 Question 6. Stochastiz. Cost Cast Muertein new. Question Corelated Data: Extra Variable TREB IF project p [ 5 p 7] + [F" (0.95) T = r = B