## Week 9

4/4/2024 11:46 am

General Integer model

Binary Variable model

Send more materials bo Emma

Integer Optimisation

The par of a hole is the number of Strokes a golfer theold use to more the ball from the to cup

, between 70 to 70 nears two mathematical Equations

Where to find the file A 55 Ass 3 Decision

Word limit for the high report is 1500



5 model are the minimum

HO TC

Action Plan Decision vaniables SP5 SP3 DPS SPY

Objective function Marc Enjoyment index 25/25 + 1.5 0/25 + 1.5 3/24 + 2 DP4 + 1.75 LP3 + 2-25 5/23

Constraints Cost Budget = 1 million Sps + 1.5m DPS + 0.75m Sp4 + 09m DP4 +0.6m LP3 + 0.65m Sp3

£72

Min Acreage: 3 sp5 + 3.5 DP5 + 2 SP4 + 2.5 DP4 + 1 LP3 + 0.75 SP3 >36 Max 11 :

Min Straight Pa 5: SP5 21

Mn Dogley Pa 5: DP5 21

Min Straight Pa 4: SP4 > 2

II Dogley Pa 4: DP4 > 2

Min Longley Pa 3: LP3 > 1

Min Short pa 3: SP3 ≥ 1

DPY

Max bobal Par

Max 3P5: SP5+DP5 & 4 Max Pa 4s : 3104+ DP4 = 14 Max Par 35 : LP3 + SP3 ≤ 20 Min lotal Par :5SP5+5DP5+4SP4+4DP4+3LP3+3SP3 >76

Total number of holes: SP5+ DP5+ SP4+ DP4+ LP3+ SP3 = 18 Non negativity: SP5, DP5, SP4; DP4, LP3, SP3 > 0 Integer: SP5, DP5, SP4, DP4, LP3, SP3 = Integer

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