

**Figure 3: Linear Program**

$$\begin{aligned}
 \text{Max} \quad & 4.3x_{11} + 3.6x_{16} + 3x_{18} + 3.8x_{21} + 3.7x_{24} + 3.2x_{27} + 3.5x_{31} + 3.5x_{32} + 3.5x_{38} + 3x_{45} + 3.5x_{51} + \\
 & 3.9x_{66} + 4.6x_{71} + 3.7x_{75} + 4.4x_{83} + 3.5x_{84} + 2.7x_{91} + 3.3x_{92} + 3.4x_{97} + 3.1x_{10,3} \\
 \text{subject to} \quad & \\
 \text{(Time Slot 1)} \quad & x_{11} + x_{16} + x_{18} \leq 1 \\
 \text{(Time Slot 2)} \quad & x_{21} + x_{24} + x_{27} \leq 1 \\
 \text{(Time Slot 3)} \quad & x_{31} + x_{32} + x_{38} \leq 1 \\
 \text{(Time Slot 4)} \quad & x_{45} \leq 1 \\
 \text{(Time Slot 5)} \quad & x_{51} \leq 1 \\
 \text{(Time Slot 6)} \quad & x_{66} \leq 1 \\
 \text{(Time Slot 7)} \quad & x_{71} + x_{75} \leq 1 \\
 \text{(Time Slot 8)} \quad & x_{83} + x_{84} \leq 1 \\
 \text{(Time Slot 9)} \quad & x_{91} + x_{92} + x_{97} \leq 1 \\
 \text{(Time Slot 10)} \quad & x_{10,3} \leq 1 \\
 \text{(Time Slot 6, 7)} \quad & x_{66} + x_{71} + x_{75} \leq 1 \\
 \text{(Time Slot 7, 8)} \quad & x_{71} + x_{75} + x_{83} + x_{84} \leq 1 \\
 \text{(Course 1)} \quad & x_{11} + x_{21} + x_{31} + x_{51} + x_{71} + x_{91} = 1 \\
 \text{(Course 2)} \quad & x_{32} + x_{92} = 1 \\
 \text{(Course 3)} \quad & x_{83} + x_{10,3} \leq 1 \\
 \text{(Course 4)} \quad & x_{24} + x_{84} \leq 1 \\
 \text{(Course 5)} \quad & x_{45} + x_{75} \leq 1 \\
 \text{(Course 6)} \quad & x_{16} + x_{66} \leq 1 \\
 \text{(Course 7)} \quad & x_{27} + x_{97} \leq 1 \\
 \text{(Course 8)} \quad & x_{18} + x_{38} \leq 1 \\
 \text{(Course 3, 4)} \quad & x_{24} + x_{83} + x_{84} + x_{10,3} = 1 \\
 \text{(Course 5, 6, 7, 8)} \quad & x_{16} + x_{18} + x_{27} + x_{38} + x_{45} + x_{66} + x_{75} + x_{97} = 2 \\
 \text{(All)} \quad & x_{11} + x_{16} + x_{18} + x_{21} + x_{24} + x_{27} + x_{31} + x_{32} + x_{38} + x_{45} + x_{51} + x_{66} + x_{71} + x_{75} + x_{83} + \\
 & x_{84} + x_{91} + x_{92} + x_{97} + x_{10,3} = 5 \\
 & x_{ij} \geq 0 \quad i = 1, 2, \dots, 10; j = 1, 2, \dots, 8
 \end{aligned}$$

**Table 3: Optimal Schedule**

Period	M	T	W	Th	F
1:25-2:20	FIN 352	FIN 356	FIN 352	FIN 356	
2:30-3:15	FIN 352	FIN 356	CIS 102T		
3:30-4:25			CIS 102T		
4:30-5:25			CIS 102T		
Eve	MGT 490		FIN 358		