

Module 9:

1. Compute L_p - metric values of alternatives and corresponding ranking pattern for the payoff matrix presented in Table 1 using Compromise Programming method for $p = 1, 2, \infty$. Assume equal weights for each criterion.

Table 1. Payoff Matrix

Crit. Alt.	C ₁	C ₂	C ₃	C ₄	C ₅
A ₁	-20	-60	2000	35	230
A ₂	-15	-75	1500	45	260
A ₃	-18	-80	1600	23	450
A ₄	-22	-65	1700	16	260
A ₅	-28	-67	1800	18	270
A ₆	-32	-69	1900	19	180
A ₇	-16	-58	2100	20	190
A ₈	-19	-70	2300	21	210

2. Compute priority of alternatives for the payoff matrix presented in Table 1 using Weighted Average method. Assume weights for each criterion are 0.12, 0.14, 0.18, 0.23, 0.33. Use normalization method 4 for analysis.