

OPER-385 Decision and Game Theory

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Course File: https://drive.google.com/drive/folders/1uoGb_yjIFguSV_b5HQ5y-a2mFuYh8nBe?usp=sharing

Course Outline and Tentative Schedule:

Topics	Hours
<i>Introduction to Game theory: Examples and terminology of game theory</i>	3
<i>Two-person zero sum game: Game tree, Pure strategies, mixed strategies, solution to two-person zero game by linear programming.</i>	10
<i>Non-cooperative two-person nonzero sum Games: Equilibrium points, Swastika method.</i>	4
<i>Cooperative two-person nonzero sum games: Maximin bargaining solution, threat bargaining solution, Shapley Nash method.</i>	6
<i>N-Person game: Characteristic function, the core, stable sets, Shapley function values.</i>	5
<i>Elements of Decision theory.</i>	2

مواعيد الامتحانات الفصلية

الوقت	التاريخ	اليوم	الدرجة	الاختبارات
من الساعة 3:00 إلى 1:00	09 رمضان 1447 26 February 2026	الخميس	30	الاختبار الفصلي الأول
من الساعة 3:00 إلى 1:00	13 ذو القعدة 1447 30 April 2026	الخميس	30	الاختبار الفصلي الثاني