



NAME OF SCHOOL: SCHOOL OF ECONOMICS

Date of Submission: 16 July 2018

ACADEMIC PROGRAMME: PhD in Economics

Instructor Name : Atsushi KAJII
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SECTION A - COURSE APPROVAL

COURSE CODE: ECON732

COURSE TITLE: ADVANCED MATHEMATICAL ECONOMICS

COURSE DESCRIPTION:

The course covers 6 topics in mathematical economics, utilizing the separation theorem of convex sets and some techniques in differential topology. The topics include the minimax theorem, aggregation theorems, the core of cooperative games, the fundamental theorem of welfare economics, and the theory of regular economies.

COURSE AREA

Advanced Research Topic (ART)

PRE-REQUISITE/CO-REQUISITE/MUTUALLY EXCLUSIVE COURSE(S)

ECON601 Microeconomics I
ECON602 Microeconomics II

GRADING BASIS

Graded

COURSE UNIT

0.5CU

FIRST OFFERING TERM

Academic Year: AY2016-17
Academic Term: Term 1



SECTION B - COURSE OUTLINE/ASSESSMENT

ASSESSMENT METHODS

Class Participation	: 10%
Problem sets	: 30%
Term Paper	: 60%
Total	: 100%

CLASS TIMINGS

Students are required to attend 6 sessions of lecture over a period of six weeks. Each lecture lasts for three hours.

6 lessons * 3 hours = 18 hours in total.

RECOMMENDED TEXT AND READINGS (OPTIONAL)