

Dynamic Methods and Applications

MA ECON AM FIE DYNAMAPP



Content and learning outcome

Content	The course introduces the dynamic programming approach in discrete time, covering its mathematical underpinnings as well as applications to problems in microeconomics, macroeconomics and finance.
Learning outcome	Students get acquainted with one of the most important techniques for forward-looking decision making, the method of dynamic programming, and with its manifold applications in economics.

Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Dynamic Methods and Applications	English	30	4 hours	60
Self-study					165

Prerequisites

obligatory	none
recommended	Knowledge of the contents of the module "Mathematics for Economists"

Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Economics (M.Sc.)/ Financial Economics, Macroeconomics and Public Economics, Management and Applied Microeconomics, Microeconomic Theory, Economic Research /332121011/332021011	elective	2 nd
Export */tba/332021011		

Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
Prerequisites for participation	none	7,5 CP
Types of Assessment Examination language	Written or oral exam or term paper (graded, 100%) English	

Course Cycle	Workload	Duration
Winter term <input type="checkbox"/> Winter and Summer term <input checked="" type="checkbox"/> Summer term <input type="checkbox"/>	225 h	1 Term

Module coordination

Teaching person	See https://basis.uni-bonn.de
Module coordinator	Prof. Dr. Hendrik Hakenes
Institute/Department	Department of Economics

Further Information

Literature	The recommended literature will be announced at the beginning of the course.
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* export into other study programs is only possible if contract between faculties exists