

# Master of Science in Economics

Department of Humanities and Social Sciences

## The overall credits structure

Category	PC	PE	OC	Total
Credits	60	9	6	75

### Program Core

HSL511	Microeconomics I	3	1	0	4
HSL512	Macroeconomics I	3	1	0	4
HSL513	Probability and Statistics for Economics	3	0	2	4
HSL516	Mathematical Economics	3	1	0	4
HSL514	Issues in Development	3	0	0	3
HSL611	Microeconomics II	3	1	0	4
HSL612	Macroeconomics II	3	1	0	4
HSL613	Econometrics	3	0	2	4
HSL614	Development Economics	3	0	0	3
HSL515	Indian Economy	3	0	0	3
HSP612	Research Seminar in Economics	1	0	4	3
HSP511	Economics Lab	0	0	8	4
HSP611	Advanced Economics Lab	0	0	8	4
HSP520	Research Project in Economics I	0	0	6	3
HSP620	Research Project in Economics II	0	0	18	9
<b>Total Credits</b>				<b>60</b>	

### Program Electives

#### Microeconomics Track

HSL816	Game Theory	3	0	0	3
HSL815	Theory of Market Design	3	0	0	3
HSL716	Industrial Economics	3	0	0	3
HSL813	Foundations of Decision Theory	3	0	0	3

#### Macroeconomics Track

HSL714	International Economics	3	0	0	3
HSL711	Macro Development Economics	3	0	0	3
HSL812	Advanced International Trade	3	0	0	3
HSL811	Advanced Economic Growth Theory	3	0	0	3

#### Quantitative Economics Track

HSL719	Advanced Econometrics	3	0	0	3
HSL715	Time Series Econometrics and Forecasting	3	0	0	3
MTL625	Principles of Optimization Theory	3	0	0	3

MTL725	Stochastic Processes and its Applications	3	0	0	3
MTL732	Financial Mathematics	3	0	0	3
MTL733	Stochastic of Finance	3	0	0	3
MTL766	Multivariate Statistical Methods	3	0	0	3
MTL843	Mathematical Modeling of Credit Risk	3	0	0	3
MTL505	Computer Programming	3	1	0	4
MTL508	Mathematical Programming	3	1	0	4
COL774	Machine Learning	3	0	2	4
ELL885	Machine Learning for Computational Finance	3	0	0	3
COL671	Principles of Artificial Intelligence	3	0	2	4
<b>Development Economics Track</b>					
HSL818	Labour Economics	3	0	0	3
HSL817	Health Economics	3	0	0	3
HSL814	Research Methods in Economics	1	0	2	2
HSL717	Perspectives on Indian Economy	3	0	0	3
HSL718	Political Economy of Development	3	0	0	3
HSL775	Agrarian Societies and Rural Development	3	0	0	3
HSL874	Civil Society and Democracy in India	3	0	0	3
HSL878	Globalization	3	0	0	3
HSL783	Science, Technology and Society	3	0	0	3
HSL701	Introduction to Science and Technology Policy Studies	1.50	0	1.5	
HSL702	Approaches to Science and Technology Policy Studies	1.50	0	1.5	
HSL703	Perspectives on climate change: Implications for policy	3	0	0	3
HSL704	Inclusive Innovation: Theory and Practice	2	0	4	4
HSL762	Social Issues: Analysis and Policy	3	0	0	3
HSL772	Sociology of India	3	0	0	3
HSL776	Capitalism: Theory and Practice	3	0	0	3
HSL779	Gender and Society	3	0	0	3
HSL782	Perspectives on Development in India	3	0	0	3
HSL801	Law, Technology and Citizenship	3	0	0	3
HSL877	Industry and Society	3	0	0	3

Sem.	Courses (Number, Abbreviated Title, L-T-P, credits)						Lecture courses	Contact h/week				Credits	
	L	T	P	Total	L	T		P	Total				
I	Programme Core						5	15	3	2	20	19	
	HSL511 Microeconomics-1 (3-1-0) 4	HSL512 Macroeconomics-1 (3-1-0) 4	HSL513 Probability and Statistics for Economics (3-0-2) 4	HSL516 Mathematical Economics (3-1-0) 4	HSL514 Issues in Develop- ment* (3-0-0) 3								
II	Programme Core					Programme Elective	5	15	2	10	27	22	
	HSL611 Microeconomics-2 (3-1-0) 4	HSL612 Macroeconomics-2 (3-1-0) 4	HSL613 Econometrics (3-0-2) 4	HSL614 Development Economics (3-0-0) 3	HSP511 Economics Lab (0-0-8) 4	OE-1 (3-0-0) 3							
Summer	Summer Internship/Project (optional and non-credit)												
III	Programme Core				Programme Elective			5	13	0	18	31	22
	HSL515 Indian Economy* (3-0-0) 3	HSP612 Research Seminar (1-0-4) 3	HSP611 Advanced Economics Lab (0-0-8) 4	HSP520 Project I (0-0-6) 3	PE-1 (3-0-0) 3	PE-2 (3-0-0) 3	PE-3 (3-0-0) 3						
IV	Programme Core				Programme Elective			1	3	0	18	21	12
	HSP620 Project II (0-0-18) 9				OE-2 (3-0-0) 3								

\*Issues in Development and India Economy will be offered in alternate years so that both first year and second year students attend one compulsory course together.

**Total = 75**