

Manchester Institute of Innovation Research
Alliance Manchester Business School
The University of Manchester

Professional Development Course on Evaluation of Science and Innovation Policies

18 – 22 May 2026

Course Programme (DRAFT)

Course Director:

Kate Barker

Course Lecturers:

Kate Barker, Erik Arnold, Effie Amanatidou,

Jakob Edler, Maria Nedeva, Raquel Ortega-Argiles, John Rigby

External Speakers:

James Phipps (Deputy Director, Innovation Growth Lab)

Mike Thelwall (Professor, University of Sheffield)

Cristina Rosemberg Montes (Managing Partner of Technopolis' London office)

Diogo Machado (Head of the Data Science Unit, Technopolis)

Day 1: 18/05/2026 Monday

Course Room: 3.015a AMBS

Time	Session Title
09:00-09:30	<i>Registration at AMBS Reception (Holly Crossley & Wendy Walker)</i> <i>(Tea and coffee available at 3.015a Course Room)</i>
09:30-10:00	Welcome to MIOIR – (Prof Elvira Uyarra, Executive Director of MIOIR) Course Overview and Introductions – (Kate Barker, Course Leader)
10:00-11:00	Introduction to science and innovation policy evaluation Some background on science and innovation policy evaluation (Erik Arnold)
11:00-11:15	<i>Tea and Coffee (3.004 Hive)</i>
11:15-13:00	Theory of change in evaluation Evaluation set-up and logic charts: concept and introduction to use for practical exercise Explaining the set-up of evaluations and the nature and use of logic charts as a practical tool in evaluation and how they can be used in the design of ex-ante and ex-post evaluation Logic Diagram Exercise (Effie Amanatidou and Kate Barker)
13:00-14:00	<i>Lunch (Mill Restaurant, Ground Floor AMBS)</i>
14:00-15:00	Logic Diagram Exercise (Continued) (Effie Amanatidou and Kate Barker)
15:00-15:45	Special Items in Evaluating Networks, Programmes and Organisations Introducing the three approaches in preparation for the in-course group work (similarities and differences, challenges and compromise). (Effie Amanatidou)
15:45-16:15	<i>Tea and Coffee (3.004 Hive)</i>
16:15-17:15	In-course Group Projects – selection and set up (Effie Amanatidou and Kate Barker)
17:15-17:30	Q&A (Erik Arnold, Kate Barker, Effie Amanatidou)
18:00-19:30	Welcome Drink in TBC Location, Manchester

Day 2: 19/05/2026 Tuesday

Course Room: 3.015a AMBS

Time	Session Title
9:00-10:30	Stakeholders' perspectives of evaluation Understanding (through role playing) the different motives, interests and expectations that stakeholders may have of evaluation and its results and how these need to be reconciled in an evaluation exercise. (Effie Amantidou)
10:30-11:00	Quantitative approaches in evaluation: econometrics and statistics Introduction to quantitative approaches, data and methods with examples. (Raquel Ortega-Argiles)
11:00-11:15	<i>Tea and coffee (3.004 Hive)</i>
11:15-13:00	Quantitative approaches in evaluation: econometrics and statistics Continued (Raquel Ortega-Argiles)
13:00-14:00	<i>Lunch (Mill Restaurant, Ground Floor AMBS)</i>
14:00-15:00	Qualitative approaches Use of interviews, surveys, case studies and focus groups in evaluation. (Erik Arnold)
15:00-15:45	Theory Based Techniques for Impact Analysis Logical framework analysis, contribution analysis, impact mapping approaches such as process tracing and outcome mapping (Erik Arnold)
15:45-16:15	<i>Tea and coffee (3.004 Hive)</i>
16:15-17:30	Group Project working time (Kate Barker, Effie Amantidou, Erik Arnold)

Day 3: 20/05/2026 Wednesday

Course Room: 3.015a AMBS

Time	Session Title
09:00-11:00	Introduction to bibliometrics and scientometrics With a focus on tools and examples, this session shows how Bibliometrics and broader Scientometric approaches have developed to support measurement and control of knowledge production. (John Rigby)
11:00-11:15	<i>Tea and coffee (3.004 Hive)</i>
11:15-13:00	Peer Review and Research assessment at the national level Using peer review in ex ante and ex post evaluation. How to run national research assessment exercises and field evaluations, and some of their effects in the research community. (Erik Arnold and Kate Barker)
13:00-14:00	<i>Lunch (Mill Restaurant, Ground Floor AMBS)</i>
14:00-15:00	Steering effects of evaluation A new framework for studying the effects of research governance on scientific fields. (Maria Nedeva)
15:00-16:00	Randomised Control Trials and other Experimental Techniques Some examples from Innovation growth Lab projects. (James Phipps, Innovation Growth Lab)
16:00-16:15	<i>Tea and coffee (3.004 Hive)</i>
16:15-17:30	Group Project working time (Kate Barker, Effie Amantidou, Erik Arnold)

Day 4: 21/05/2026 Thursday

Course Room: 3.015a AMBS

Time	Session Title
09:00-10:30	3rd generation Evaluation Designing and evaluating programmes to tackle societal challenges and missions requires a radical rethink – refocusing from funding science to solving problems. We finish with an exercise to build a challenge-orientated theory of change. (Erik Arnold)
10.30-11:00	Policy Level Evaluation: Demand based innovation policy In recent years, policies to utilise and support demand for innovation as an innovation policy tool have become more prominent in the OECD world again. However, their design, implementation and evaluation are still poorly understood. This session introduces the rationale and instruments for demand side policies and discusses the specific challenges and approaches for evaluation. (Jakob Edler)
11:00-11:15	<i>Tea and coffee (3.004 Hive)</i>
11:15-12:00	Policy Level Evaluation: Demand based innovation policy (Continued) (Jakob Edler)
12:00-13:00	Introduction to Altmetrics This talk will describe a range of web-based alternative metrics that can be used as impact indicators in various contexts. The talk will also give examples of using alternative metrics to support evaluations. (Mike Thelwall, University of Sheffield)
13:00-14:00	<i>Lunch (Mill Restaurant, Ground Floor AMBS)</i>
14:00-15:00	AI in Science and Science Policy Will AI make scientific discovery and science policy more efficient? What are the prospects, and how do we mitigate the risks? (Diogo Machado)
15:00-16:00	Evaluation STI organisations How to evaluate research funders and performers, with examples from Finland and Luxembourg. (Erik Arnold)
16.00-16:15	<i>Tea and coffee (3.004 Hive)</i>
16:15-17:30	Group Project working time (Kate Barker and Erik Arnold)
19:30	Course Dinner — Evening meal at 19:30 Address: TBC Location in Manchester City Centre Optional meet up in the Hotel lobby at 19:00 to walk together.

Day 5: 22/05/2026 Friday

Course Room: 3.015a AMBS

Time	Session Title
09:00-10:00	Advanced econometric/statistical approaches and examples Exploration of advanced econometric/statistical approaches (including regression analysis, propensity score matching, difference in difference, synthetic control groups) via concrete examples. (Cristina Rosemberg)
10:00-11:00	Advanced econometric/statistical approaches, group exercise A group exercise to explore the use of advanced econometric/statistical approaches in practice and formulate questions for the researchers/evaluators. (Cristina Rosemberg)
11:00-11:15	<i>Tea and Coffee (3.004 Hive)</i>
11:15-12:00	Group Project Presentations Project teams will present their group project presentations. Members of the teaching staff as well as other participant will provide feedback and discussion to presentations. (Jakob Edler, Kate Barker, Erik Arnold)
12:00-13:00	Evaluation User – Manchester Region (to be confirmed)
13:00-14:00	<i>Lunch (Mill Restaurant, Ground Floor AMBS)</i>
14.00-15:00	Group Project Presentations (continued) Project teams will present their group project presentations. Members of the teaching staff as well as other participant will provide feedback and discussion to presentations. (Jakob Edler, Kate Barker, Erik Arnold)
15:00-15:30	Conclusion Time to address any final questions. Feedback, wrap up and certificates. (Jakob Edler, Kate Barker, Erik Arnold)
15:30	<i>End of the Course</i>

Manchester Institute of Innovation Research

The Manchester Institute of Innovation Research (MIOIR) is the research centre of excellence in the Alliance Manchester Business School (AMBS) and The University of Manchester in the field of innovation and science studies. With more than 50 full members and a range of associated academics from across the University, MIOIR is Europe's largest and one of the World's leading research centres in this field.

The Institute's key strengths lie in the linkage and cross-fertilisation of economics, management and policy around innovation and science. Building on fifty years of tradition in innovation and science studies, the Institute's philosophy is to combine academic rigour with concrete practical relevance for policy and management. This includes broad engagement with and research for policy makers and societal and industrial stakeholders in the Manchester City Region, across the UK and internationally. MIOIR is also firmly committed to a range of teaching activities within and beyond AMBS and integrates a strong and successful PhD programme into its research activities. The Institute has a visitor programme for academics and management and policy practitioners and provides a range of popular and high-level executive education courses on evaluation, foresight and S&T Policy.

For more information, please visit www.mioir.manchester.ac.uk/