

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

Professional Development Course on Evaluation of Science and Innovation Policies

15 – 19 May 2023

Course Programme

Course Director:

Kate Barker

Course Lecturers:

Effie Amanatidou, Kate Barker, Jakob Edler

Maria Nedeva, Raquel Ortega-Argilés

External Speakers:

Erik Arnold (Technopolis Group and MIOIR Honorary)

John Rigby (MIOIR Honorary)

David Sweeney (University of Birmingham and MIOIR Honorary)

Mike Thelwall (University of Wolverhampton)

Day 1: 15/05/2023 Monday

Course Room: 3.009

Time	Session Title
09:00-09:30	<i>Registration at AMBS Reception (Holly Crossley) (Tea and coffee available at 3.004 Hive Event Space)</i>
09:30-10:00	Welcome to MIOIR – Elvira Uyarra, Director of MIOIR Introductions – participants, lecturers and the week ahead (Kate Barker)
10:00-11:00	Introduction to science and innovation policy evaluation Some background on science and innovation evaluation and an overview of the course (Kate Barker)
11:00-11:15	<i>Tea and Coffee (3.004 Hive Event Space)</i>
11:15-12:30	The role of evaluation in science and innovation policy The policy cycle and how evaluation and evaluation-based techniques are used in designing and implementing science and innovation policies (Kate Barker and Erik Arnold)
12:30-13:30	<i>Lunch (The Mill Restaurant)</i>
13:30-14:00	Group project organisation, teams and topics Setting up groups for course project (Kate Barker)
14:00-14:30	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 (Kate Barker)
14:30-15:30	Designing an evaluation – Logic Chart Exercise Group work
15:30-15:45	<i>Tea and Coffee (3.004 Hive Event Space)</i>
15:45-17:00	Designing an evaluation – reporting back on the logic charts and starting evaluation design Group work
17:30	<i>Drinks in Hyatt Hotel Bar</i>

Day 2: 16/05/2023 Tuesday

Course Room: 3.009

Time	Session Title
9:00-10:00	Introduction to indicators Introduction to the concept and use of indicators for the evaluation of innovation and science policy (John Rigby)
10:00-11:00	Introduction to bibliometrics Explaining the underpinning assumptions and limitations of bibliometric analysis and how both are used in evaluation and policy. Includes three in depth examples. (John Rigby)
11:00-11:15	<i>Tea and coffee (3.004 Hive Event Space)</i>
11:15-12:45	Evaluation by the numbers – 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, Professor, University of Wolverhampton)
12:45-13:45	<i>Lunch (The Mill Restaurant)</i>
13:45-14:45	Evaluation – some basic qualitative tools Common qualitative approaches to evaluation, and their strengths and weaknesses (Erik Arnold)
14.45-15.45	Evaluation using judgement – peer review The origins and uses of peer review, and how to use peer review in ex ante and ex post evaluation (Erik Arnold)
15:45-16:00	<i>Tea and coffee (3.004 Hive Event Space)</i>
16:00-17:30	Q&A plus project work Questions and answers on the course so far Group project work (Kate Barker and Erik Arnold)

Day 3: 17/05/2023 Wednesday

Course Room: 3.009

Time	Session Title
09:00-10:00	Evaluating Organisations Research funding organisations are under increasing pressure to prove excellent performance. Evaluating research funding organisations presents additional methodological challenges beyond programme evaluation (Erik Arnold)
10:00-11:00	Evaluation in the context of policymaking Title to be announced (David Sweeney)
11:00-11:15	<i>Tea and coffee (3.004 Hive Event Space)</i>
11:15-12:30	Evaluation and societal challenges Science and innovation policy increasingly involves addressing the Societal Challenges and the UN Sustainable Development Goals. This is sometimes referred to as third-generation science and innovation policy and includes policy for systemic innovation through transitions and missions. It broadens the scope of policy well beyond the traditional research and innovation communities to the rest of society. This session introduces third generation policy and sets out the challenges involved in evaluating it. (Erik Arnold)
12:30-13:30	<i>Lunch (The Mill Restaurant)</i>
10:00-11:00	Evaluation of social impact of research Explaining the main challenges, dimensions of social impact and practical examples of different approaches to capturing societal impacts from research (Kate Barker)
14:30-15:30	The steering effects of evaluation Further details to be announced (Maria Nedeva)
15:30-16:45	<i>Tea and coffee (3.004 Hive Event Space)</i>
16:45	Free Time

Day 4: 18/05/2023 Thursday

Course Room: 3.009

Time	Session Title
09:00-11:00	<p>Evaluating networks in research and innovation (Effie Amanatidou)</p> <p>This session explores the evaluation of networks both transnational and multi-level, which are increasingly being used as a policy instrument to address grand challenges or to build up virtual research and innovation communities.</p> <p>Group Work on evaluating networks Using examples from Public-to-Public networks in Europe, this session includes groupwork to develop evaluation frameworks. (Effie Amanatidou)</p>
11:00-11:15	<i>Tea and coffee (3.004 Hive Event Space)</i>
11:15-12:30	Group Work on evaluating networks (continued) (Effie Amanatidou)
12:30-13:30	<i>Lunch (The Mill Restaurant)</i>
13:30-15:30	<p>Group Project Work (Tutors: Kate Barker and Effie Amanatidou)</p>
15:30-15:45	<i>Tea and coffee (3.004 Hive Event Space)</i>
15:45-17:30	tbc
tbc	<p>Meet for Course Dinner (Meet Kate Barker & Deborah Cox in the Foyer at AMBS Reception to walk together to restaurant)</p>

Day 5: 19/05/2023 Friday

Course Room: 3.009

Time	Session Title
09:00-10:30	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)
10:30-11:00	Economic approaches to evaluation (part 1) (Raquel Ortega-Argilés)
11:00-11:15	<i>Tea and Coffee (3.004 Hive Event Space)</i>
11:15-12:45	Economic approaches to evaluation (part 2) (Raquel Ortega-Argilés)
12:45-13:45	<i>Lunch (The Mill Restaurant)</i>
13:45-14:45	Group Project Presentations Project teams will present their group project presentations (each group will have 15 mins). Members of the teaching staff as well as other participant will provide feedback and discussion to presentations. (Kate Barker, Jakob Edler)
14:45-15:30	Conclusion Time to address any final questions. Feedback, wrap up and certificates. (Kate Barker, Jakob Edler)
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 Manchester Business School (MBS) 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 forty 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 MBS 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/