Alliance Manchester Business School

PGR Course unit outline 2022/23

Unit code:	**BMAN 80920**
Title:	Research and Policy Seminar in Science, Technology and Innovation Policy
Credit value:	15
Semester:	Semester 1 and Semester 2 (both)
Course Coordinator contact details:	Philip Shapira AMBS 9.004; 5x7376; pshapira@manchester.ac.uk Office Hours: Tue 09h-11h or by appointment Cornelia Lawson AMBS 8.022; x5-7253; Email: cornelia.lawson@manchester.ac.uk Office Hours: by appointment
Other staff involved contact details:	N/A
Pre-requisites **Co-requisites** **Dependent course units** **Restrictions**	Pre-requisite: BMAN 80810 (or equivalent)

Course unit overview

Further examination of research topics in science, technology and innovation policy

Aims

This module unit provides opportunities for post-graduate students to further engage with advanced research topics in science, technology, and innovation policy, present and discuss their research, receive feedback, and interact with research and policy leaders. The module is targeted to 2nd Year doctoral students in science, technology and innovation policy. It is also appropriate for other doctoral students with interests in this domain.

Objectives (Learning outcomes)

On completion of this unit successful students will:

- Benefit from opportunities to critically discuss and test arguments about theories and practices on leading-edge topics in science, technology and innovation policy
- Further extend their knowledge and awareness of research in science, technology and innovation policy through structured reading and discussion.
- Enhance capabilities to critically assess ideas and research arguments in science, technology and innovation policy, and connect these capabilities to enhancing and enriching their own individual doctoral research projects.

The module will further strengthen key skills in analysing scholarly and policy materials, critiquing research designs and literature, formulating independent perspectives, and presenting narratives and arguments in accessible formats.

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Syllabus content

The module further engages researchers in science, technology and innovation policy; domains of science, technology and innovation policy are examined; with attention to the evolution of theory and literature and relationships with policy from an interdisciplinary perspective.

The seminars will each focus on a particular topic in science, technology, and innovation policy, with prior targeted reading, and with review and discussion. Key authors and experts will be invited to present at these seminars. Examples of topics to be discussed include: The aims of science policy; technology, sustainability, and inclusive development; assessing innovation policy impacts; the new revolution in production; and policies for emerging technologies. Individual readings will be assigned ahead of each course session, with the expectation that students will have read and be prepared to discuss these readings.

In addition to the seminars, individual tutorial meetings will be arranged with each registered student in each semester to discuss their own research, linkages with seminar topics and methods, readings and assignments.

The capstone discussion will review debates and learning. Students will present and discuss their own perspectives on self-identified topics (typically related to their research project) in science, technology, and innovation policy, focusing on a policy-oriented presentation based on their research topic that links theory with policy analysis and options.

All course readings and other materials will be available online.

Methods of delivery

Lectures	--
Seminar/Tutorial/Workshop/Lab Hours	30 hours
Independent Study	120 hours
Total Study Hours	150 hours

Reading List

Pre Reading:
- Owen, R., Macnaghten, P., & Stilgoe, J., Responsible research and innovation: From science in society to science for society, with society, Science and Public Policy, 39, 6, 751–760, https://doi.org/10.1093/scipol/scs093
- Flanagan, Kieron, and Elvira Uyarra. 2016. Four dangers in innovation policy studies – and how to avoid them, Industry and Innovation, 23:2, 177-188, https://doi.org/10.1080/13662716.2016.1146126
- Geels, F. 2002. Technological transitions as evolutionary reconfiguration processes: a multi-level perspective and a case-study. Research Policy, 31, 8-9, 1257-1274. https://doi.org/10.1016/S0048-7333(02)00062-8

Core Text: Individual readings will be assigned ahead of each course session.

Supplementary Text: Multiple readings from prior seminars are available at this link

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Assessment

Mode of Assessment	Length required	Weighting within unit
Science, technology, and innovation policy brief – initial outline – focused on the student's own doctoral research project. (Due 20 January 2023, 10h00 UK)	300 words	Formative
Science, technology, and innovation policy brief – discussion and review document, focused on the student's own doctoral research project. Submitted as a paper. Alternatively, can be written and posted as a blog. Paper or blog options need to be submitted through Blackboard. (Due 12 May 2023, 10h00 UK time).	1200-1500 words	80%
Individual presentation of topic at capstone meeting (15 May 2023).		20%
Resits: Will by assessed by satisfactory completion of coursework.		

Feedback methods

Students will receive feedback through a series of methods, comprising:

• Written and/or verbal comments on non-assessed (formative) and assessed coursework.
• Informal advice and discussion during course meetings and following presentations.
• Responses to student emails and questions.
• Individual feedback in meetings with instructors (e.g. in office hours or by appointment).
• Specific course related feedback discussion in course sessions.

Feedback for all assessed coursework and formative assessment will be provided within 15 working days of the submission deadline. A working day is defined as Monday to Friday, not including bank holidays and excluding student vacation periods and University examination periods. For submission dates, see section on Assessment.

In addition to the course unit evaluation questionnaire, students are encouraged to give feedback through emails and conversations at any time, and using the online questionnaire near the end of the semester

Social Responsibility

AMBS aims for our graduates to develop not only academic and professional skills, but also a sense of social, ethical and environmental responsibility towards the societies of which they are part. Please give details of how social responsibility is addressed in your course unit by highlighting any knowledge or skills that support students' social and ethical understanding and conduct.

Awareness of the concepts and policy practices gained through this course will help students in assessing how science, technology and innovation addresses, and can better address, societal, human, environmental, and economic needs.

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Please indicate by ticking the box(es) below, which specific aspect of SR your module is linked to:

X	A UN SDGs*		Environmental Sustainability

	Other (please specify)

SDG 9 Industry, Innovation and Infrastructure
SDG 8 Decent Work and Economic Growth
SDG 12 Responsible Production and Consumption
SDG 10 Reduced Inequalities

* If a UN SDG, please note which one by reviewing the list here

For additional support on how embed SR into your module, please review the resources here:
https://documents.manchester.ac.uk/DocuInfo.aspx?DocID=51837
https://documents.manchester.ac.uk/DocuInfo.aspx?DocID=47017