Module	Submodule	Unit	Trajectory					Research cycle						Title	Description
			General	Phi personal	Phi	Meth	Meteo	Theory	Hypothesis	Exp.	Analysis	Conclusion	Synthesis		
0			-	-	-	-	-	-	-	-	-	-	-	Introduction to the course	
0	0.1		.	.	.	.	.	.	.	.	.	.	.	Introduction to the course	
1			-	-	-	-	-	-	-	-	-	-	-	Know they tools	
1	1.1		.	.	.	.	.	.	.	.	.	.	.	Program	
1	1.1	1.1.1	x		x	x	x								Introduction + learning objectives
1	1.2		.	.	.	.	.	.	.	.	.	.	.	Context and theory	
1	1.2	1.2.2			x			x							Rationalism, empiricism, logical positivism
1	1.3		.	.	.	.	.	.	.	.	.	.	.	Hypothesis	
1	1.3	1.3.2			x				x						Logical positivism, research question and hypothesis
1	1.3	1.3.2			x				x						Deductive and inductive reasoning
1	1.4		.	.	.	.	.	.	.	.	.	.	.	Experiment and analysis	
1	1.5		.	.	.	.	.	.	.	.	.	.	.	Conclusion	
1	1.6		.	.	.	.	.	.	.	.	.	.	.	Synthesis	
2			-	-	-	-	-	-	-	-	-	-	-	Everything has a cause	
2	2.1		.	.	.	.	.	.	.	.	.	.	.	Program	
2	2.1	2.1.1	x		x	x	x								Introduction + learning objectives
2	2.2	2.2.2			x			x							Logical positivsm, empirical cycle
2	2.2	2.2.2			x			x							Criticism to logical positivism: theory-ladenness of observations
2	2.2	2.2.2			x			x							Criticism to logical positivism: logical soundness of verification
2	2.2	2.2.2			x			x							Criticism to logical positivism: observability of variables
2	2.3		.	.	.	.	.	.	.	.	.	.	.	Hypothesis	
2	2.3	2.3.2			x				x						The problem of induction: no guarantee that A always causes B
2	2.4		.	.	.	.	.	.	.	.	.	.	.	Experiment analysis	
2	2.4	2.4.2			x					x					The relation between theory, model and simulation
2	2.5		.	.	.	.	.	.	.	.	.	.	.	Conclusions	
2	2.6		.	.	.	.	.	.	.	.	.	.	.	Synthesis	
3			-	-	-	-	-	-	-	-	-	-	-	Trust, verify, falsify	
3	3.1		.	.	.	.	.	.	.	.	.	.	.	Program	
3	3.1	3.1.1	x		x	x	x								Program and learning objectives
3	3.2		.	.	.	.	.	.	.	.	.	.	.	Theory	
3	3.2	3.2.2			x			x							Popper and critical rationalism

3	3.3		.	.	.	.	.	.	.	.	.	.	.	.		Hypothesis
3	3.4		.	.	.	.	.	.	.	.	.	.	.	.		Experimental and Analysis
3	3.4	3.4.2			x					x						Aspects of uncertainty in simulations
3	3.5		.	.	.	.	.	.	.	.	.	.	.	.		Conclusions
3	3.6		.	.	.	.	.	.	.	.	.	.	.	.		Synthesis
4			-	-	-	-	-	-	-	-	-	-	-	-		Scientific Progress is all about Asking Questions
4	4.1		.	.	.	.	.	.	.	.	.	.	.	.		Program
4	4.1	4.1.1	x		x	x	x									Program and learning objectives
4	4.2		.	.	.	.	.	.	.	.	.	.	.	.		Theory
4	4.2	4.2.2			x			x								Succession of paradigms, resarch programs, research traditions
4	4.3		.	.	.	.	.	.	.	.	.	.	.	.		Hypothesis
4	4.4		.	.	.	.	.	.	.	.	.	.	.	.		Experiments and analysis
4	4.5		.	.	.	.	.	.	.	.	.	.	.	.		Conclusions
4	4.6		.	.	.	.	.	.	.	.	.	.	.	.		Synthesis
5			-	-	-	-	-	-	-	-	-	-	-	-		To plan or not to plan
5	5.1		.	.	.	.	.	.	.	.	.	.	.	.		Program
5	5.2		.	.	.	.	.	.	.	.	.	.	.	.		Writing your proposal
5	5.3		.	.	.	.	.	.	.	.	.	.	.	.		Receiving feedback
6			-	-	-	-	-	-	-	-	-	-	-	-		The proof of the puddin
6	6.1		.	.	.	.	.	.	.	.	.	.	.	.		Program
6	6.2		.	.	.	.	.	.	.	.	.	.	.	.		Performing your research
6	6.2	6.2.1			x	x		x	x	x	x	x	x			Reflect on questions regarding your methodology
6	6.2	6.2.2		x	x	x	x	x	x	x	x	x	x			Perform your research project
6	6.3		.	.	.	.	.	.	.	.	.	.	.	.		Receiving feedback
6	6.3	6.3.2		x	x	x	x	x	x	x	x	x	x			Finalize your report, including appendices on methodology and your checklist; and hand it in