

UKMOD Training course

15-17 November 2022

Teaching team: Daria Popova, Matteo Richiardi and Justin Van De Ven

UKMOD Model and Data

- Register for the model and the data, following the instructions here: <https://www.microsimulation.ac.uk/ukmod/access/>. Pay attention to providing evidence of access to the 2019 FRS data (instructions at the link above), and requesting the 2019 UKMOD input data. You can also request previous input datasets if you wish, as long as you provide evidence of access to the underlying FRS data in your registration form. In the training we will use the 2019 data only.
- Download model version A3.23+ and 2019 data from Redmine (NB: use the link, username and password that you will be provided upon registration).

Join the meeting via Zoom

- Click on the Zoom links (see below in the programme).
- If you have problems, please email iser-ukmod@essex.ac.uk and we will try to help.
- Course timetable is in GMT (**UK time**).

During the course

- You will be muted upon joining the meeting.
- Feel free to unmute yourself when you want to speak/ask a question, raise a hand or write in the chat.
- The course is organised as a mixture of lectures and hands-on exercises. We will be showing you a step-by-step solution for each exercise.
- Each session includes time for questions as well as a dedicated Q&A session.
- We would welcome your feedback on what went/did not go well and on how we can improve!

Pre-course Technical Session

Setting up the model, data & software – 9am (UK time) 14 Nov 2022

<https://essex-university.zoom.us/j/99900667076>

(UK Time)	Topic
09:00 – 10:00	Session on: • Downloading the UKMOD model • Installing the EUROMOD software • Linking the model and software

Course Programme

Day 1 – Tuesday, 15 Nov 2022

<https://essex-university.zoom.us/j/99900667076>

(UK Time)	Topic
9.00 – 10.00	Session 1 • Introduction: static tax-benefit models, distributional analysis and the UKMOD project • How UKMOD works • Exercise 1: Running the model and using the <i>Statistics Presenter</i> for analysis
10.00 – 10.10	Break
10.10 – 11.10	Session 2 • EUROMOD tax-benefit microsimulation language • Exercise 2: Implementing a reform to the UK model and using the <i>Statistics Presenter</i> for analysis
11.10 – 11.40	Break
11.40 – 13.00	Session 3 • The Policy Spine • The Policy functions <i>Elig</i> & <i>ArithOp</i> and the parameters <i>amounts</i>, <i>formula</i>, <i>queries</i> • (5min break) • Q&A
13.00	End of Day 1

Day 2 – Wednesday, 16 Nov 2022

<https://essex-university.zoom.us/j/99900667076>

(UK Time)	Topic
9.00 – 10.00	Session 4 • Re-cap of Day 1 • Exercise 3: Implementing a reform to the Child Benefit, using Elig & ArithOp • Handling errors
10.00 – 10.10	Break
10.10 – 11.10	Session 5 • Types of function • The Policy function <i>BenCalc</i> • Exercise 4: Implementing a reform to the Child Benefit, using BenCalc
11.10 – 11.40	Break
11.40 – 13.00	Session 6 • The policy function <i>SchedCalc</i> • (5min break) • Q&A
13.00	End of Day 2

Day 3 –Thursday, 17 Nov 2022

<https://essex-university.zoom.us/j/99900667076>

(UK Time)	Topic
9.00 – 10.00	Session 7 • Re-cap of Day 2 • The system functions <i>DefConst</i> & <i>DefIL</i> • Exercise 5: Modifying the income tax in the UK, using SchedCalc and DefConst
10.00 – 10.10	Break
10.10 – 11.10	Session 8 • (Extra Exercise 6): Modifying the benefit cap in the UK, using DefIL) • The Policy function <i>Allocate</i> • Assessment units and the system function <i>DefTU</i> • Exercise 7: Modifying the benefit unit in the UK, using DefTU
11.10 – 11.40	Break
11.40 – 13.00	Session 9 • Upating indices and the system function <i>Uprate</i> • Variable types and system function <i>DefVar</i> • (5min break) • Q&A
13.00	End of Day 3