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| **Timetable**  **Module 1**  (PMIM102J)  **2021** | | | | | |
| **Date** | **Time** | | **Subject** | **Lecturers** | **Room** |
| Mon  18th Jan  2021 | 09:00 | 09:30 | Welcome, Introduction, Options. | Pete Arnold | Zoom |
| 09:30 | 10:30 | What is data science? | Dan Thayer | Zoom |
| 10:30 | 11:00 | Introduction to the tools used in the course. | Dan Thayer | Zoom |
| 11:00 | 12:00 | **Lab**: Computer setup   1. Check your installation and setup of R, R-Studio, Jupyter & git. 2. Introduction to git version control. | Dan Thayer  Pete Arnold | Zoom |
| 12:00 | 13:00 | **Interactive**: Getting started with R  Getting started with the tools.  R-Studio / Jupyter notebooks / git | Pete Arnold | Zoom |
| 13:00 | 14:00 | Lunch | | |
| 14:00 | 15:30 | **Interactive**: Introduction to R  Basic concepts in R.  Exercises in programming, git and R.  R-Studio / Jupyter notebooks / git | Pete Arnold | Zoom |
| 15:30 | 16:00 | Coffee break | | |
| 16:00 | 17:00 | **Interactive**: Introduction to R (ctd)  Basic concepts in R with examples from github.  R-Studio / Jupyter notebooks / git | Dan Thayer  Pete Arnold | Zoom |
| **Date** | **Time** | | **Subject** | **Lecturers** | **Room** |
| Tue  19th Jan 2021 | 09:00 | 09:15 | Introduction, feedback and questions from previous day. | Pete Arnold | Zoom |
| 09:15 | 12:00 | **Interactive**: R: wrangling + stats.  Introducing the tidyverse & statistics in R.  R-Studio / Jupyter notebooks / git | Pete Arnold | Zoom |
| 12:00 | 13:00 | Lunch | | |
| 13:00 | 15:00 | Statistics I | Alan Watkins | Zoom |
| 15:00 | 15:30 | Coffee break | | |
| 15:30 | 17:00 | **Interactive**: Using statistics in R.  R-Studio / Jupyter notebooks / git | Pete Arnold  Alan Watkins | Zoom |
| **Date** | **Time** | | **Subject** | **Lecturers** | **Room** |
| Wed  20th Jan 2021 | 09:00 | 09:15 | Introduction, feedback, and questions from previous day | Pete Arnold  Dan Thayer | Zoom |
| 09:15 | 10:00 | Health Data 2 | Dan Thayer | Zoom |
| 10:00 | 11:30 | Library Skills | Erika Gavillet | Zoom |
| 11:30 | 13:30 | Introduction to SQL | Dan Thayer | Zoom |
| 13:30 | 14:30 | Lunch | | |
| 14:30 | 15:30 | **Lab**: SQL  PostgreSQL | Dan Thayer | Zoom |
| 15:30 | 16:00 | Coffee break | | |
| 16:00 | 17:00 | Working with both SQL & R  PostgreSQL / R-Studio | Dan Thayer | Zoom |
| **Date** | **Time** | | **Subject** | **Lecturers** | **Room** |
| Thu  21st Jan 2021 | 09:00 | 10:00 | Health Data 3 | Dan Thayer | Zoom |
| 10:00 | 11:00 | Database design | Dan Thayer | Zoom |
| 11:00 | 12:30 | Software development principles: Using functions and modules in R.  R-Studio / git | Marcos del pozo Baños | Zoom |
| 12:30 | 13:30 | Lunch | | |
| 13:30 | 15:00 | **Lab**: Functions in R  R-Studio | Marcos del pozo Banos | Zoom |
| 15:00 | 15:30 | Coffee break | | |
| 15:30 | 17:00 | **Interactive**: Further R.  More R and Tidyverse for statistics.  R-Studio / Jupyter notebooks / git | Pete Arnold | Zoom |
| **Date** | **Time** | | **Subject** | **Lecturers** | **Room** |
| Fri  22nd Jan 2021 | 09:00 | 10:30 | Software project management + **Lab** session  R-Studio | Dan Thayer | Zoom |
| 10:30 | 11:30 | Health data user Q&A | David Tucker | Zoom |
| 11:30 | 12:30 | Academic Integrity Training | Warren Perkins | Zoom |
| 12:30 | 13:30 | Lunch | | |
| 13:30 | 15:30 | Advanced SQL: joins, aggregate functions  PostgreSQL / R-Studio | Dan Thayer | Zoom |
| 15:30 | 16:00 | Coffee break | | |
| 16:00 | 16:30 | Course evaluation | Pete Arnold | Zoom |
| 16:30 | 17:00 | Assignment discussion  **Lab** session / surgery | Dan Thayer | Zoom |