



23 - 25 October 2024
Hall in Tirol, Austria

3-DAY CERTIFIED UNIVERSITY COURSE

Registration Fee

- **Course fee academic/public** Euro 1,450
Early booking fee until 15 September 2024 Euro 950
- **Course fee commercial** Euro 2,950
Early booking fee until 15 September 2024 Euro 2,450

▪ Discounts

Group Registrations – Save 15%

Register with three or more colleagues and save!

Alumni – Save 20%

UMIT TIROL Alumni or if you have previously participated in a Continuing Education Program Course on HTADS, you are eligible for a discount on this course.

Course fee includes course materials, course certificate, snacks and lunch, but not travelling and accommodation. Certificates will be provided to all participants. You can earn 5 ECTS credits if you successfully complete an assignment and actively participate during the attendance period of the course.

Registration for this course can be made online.
Payment details and cancellation policy are available on www.umat-tirol.at/htads

Contact & Course Location

**Continuing Education Program on
HTA & Decision Sciences (HTADS)**

**Institute of Public Health, Medical Decision
Making and HTA**

**UMIT TIROL – University for Health Sciences
and Technology**

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HTADS Newsletter:
www.umat-tirol.at/htads-news

Introduction to Statistics with R – An Applied 3-Day Hands-On Workshop



What is the Continuing Education Program on Health Technology Assessment & Decision Sciences (HTADS)?

Prof. Uwe Siebert, MD, MPH, MSc, ScD
HTADS Program Director

Health Technology Assessment (HTA)

has been defined by the International Network of Agencies for HTA (INAHTA) as “a multidisciplinary field of policy analysis studying the medical, economic, social, and ethical implications of development, diffusion and use of health technologies (e. g., drugs, devices, surgical procedures, prevention techniques)”. In conducting HTA, the discipline of decision sciences has become increasingly relevant.

Decision Science (DS)

is the application of explicit and quantitative methods to analyze decisions under conditions of uncertainty (e. g., meta-analysis, decision-analytic modeling, cost-effectiveness analysis). In recent years, HTA and DS have become very important to health care policymakers. In order to keep pace with these developments, the UMIT TIROL – HTADS Program was designed to provide excellent quality education and comprehensive training in the key issues of HTA and DS for anyone involved in the health sector. The course faculty is drawn from leading international experts from universities, industry, HTA agencies and representatives from other relevant areas who are committed to provide independent teaching of state-of-the-art principles.

Course Faculty

Dr. Jan Stratil, BSc, PhD

Senior Scientist, Dept. of Public Health, Health Services Research and HTA, UMIT TIROL – University for Health Sciences and Technology, Hall in Tirol, Austria

Veronika Papon, MSc

Junior Scientist, Dept. of Public Health, Health Services Research and HTA, UMIT TIROL – University for Health Sciences and Technology, Hall in Tirol, Austria



What is R?

The success of the open-source statistical software R has made a significant impact on the teaching and research of statistics in the last decade. R is a free software environment for statistical computing and graphics. As opposed to some other statistical software programs it "speaks statistics" and allows flexible approaches to data visualization and analyses. Those who are equipped with basic computing knowledge in R are rewarded with flexible approaches to data visualization and analyses, simple implementation of Monte-Carlo simulations and the possibility to easily automate analysis procedures.

Target Audience

The 3-day course is aimed at attendees with a basic knowledge of introductory statistics and prior exposure to statistical software. The course is suitable for PhD, medical and master students.

Course Description

This interactive course gives an introduction on how to use the statistical software R. It is a “hands-on” workshop and contains both lectures and practical exercises. Participants learn about the structure of the language R, the creation of professional graphs and how to do basic introductory statistics. To overcome common challenges, a lot of practical advice are given.

By the end of the course, participants:

- understand how R thinks and operates - both in Base R and the tidyverse language
- Can upload data in and download data from R
- Can examine, clean, manipulate, and summarize data in R
- Can produce a visualize data through a variety of graphs in the ggplot graphics language package
- Can create data reports using R Markdown
- Are able to implement and work with basic statistical methods, such as (selected) hypothesis tests and regression
- Understand and implement basic loop-structures; including the basic idea of Monte-Carlo simulations

Course language is English. Both native and non-native English speakers are welcome.

Further HTADS Courses

Scientific Reporting and Writing

3-Day Certified University Course, 05-07 December 2024

Introduction to Health Technology Assessment and Health Economics – ONLINE

3-Day Certified University Course, 27-29 January 2025

Winter School in Clinical Epidemiology

5-Day Certified University Course, 10-14 February 2025

Introduction to Systematic Reviews and Meta Analysis – ONLINE

3-Day Certified University Course, 20-22 March 2025

Modeling Approaches for HTA

A Practical Hands-on Workshop,

3-Day Certified University Course, 02-05 April 2025

Causal Inference for Assessing Effectiveness in Real World Data and Clinical Trials

A Practical Hands-on Workshop,

5-Day Certified University Course, 19-23 May 2025

Scientific Reporting and Writing – ONLINE

3-Day Certified University Course, TBD May 2025

Advanced Systematic Reviews and Meta Analysis – ONLINE

3-Day Certified University Course, 12-14 June 2025