

Human factors

C6

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Sven Hoffmann

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| Aim | <p>Employees have to deal with a large variety of working demands and work-related exposures. Furthermore, technical systems and human-machine interfaces and interaction are subject to constant and sometimes rapid change. To keep people healthy and safe at work, human factors have to be assessed and managed.</p> <p>Upon completion of the course, students will be able to:</p> <ul style="list-style-type: none"> • Perform ergonomic risk assessments • Evaluate individual balances of work demands and resources • Understand and apply concepts of human reliability and human error • Assess human-related risk factors at work |
| Contents | <ul style="list-style-type: none"> • Ergonomic risk assessment on complex systems • Ergonomic workplace interventions • Human-machine interaction • Basics of human reliability and human error • Concepts of risk perception and risk behavior • Introduction to Indoor Air |
| Methods | Lectures; Group work; Discussion round; Site visit |
| ECTS credits | 2 ECTS credits = approx. 60 hours of workload including 31 hours of on-campus lectures and 15 hours of pre-assignment and exam |
| Target audience | <ul style="list-style-type: none"> • Students in the DAS Work+Health program • Future and current work and health specialists • Healthcare providers and other persons interested in work and health |
| Module manager | Sven Hoffmann; University of Zurich, Epidemiology, Biostatistics and Prevention Institute |
| Administration | Andrea Frederick; andrea.frederick@uzh.ch |
| Dates and location | 26–29 September 2022 in Zurich |
| Fee | CHF 2720.– |
| Registration deadline | 25 August 2022 |