# Visual Analytics in Health Care

Winter

(in German: Visual Analytics in Health Care )

**Module-ID: FIN-INF-120476**

| Abbreviation | Credit Points | Semester | Term | Duration | Language | Level |
|---|---|---|---|---|---|---|
| VAHC | 3 | Winter | starting at 1. | 1 Semester | english | Master |

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|---|---|
| **Link:** | LSF |
| **Limited accessability:** | |
| **Responsibility:** | Bernhard Preim |
| **Lecturer:** | Bernhard Preim |
| **Classes:** | '- Seminar *Visual Analytics in Health Care* |
| **Applicability in curriculum:** | - M.Sc. INGINF: Informatik<br>- M.Sc. WIF: Informatik<br>- M.Sc. DKE: Applied Data Science<br>- M.Sc. DE: Methoden der Informatik<br>- M.Sc. DE: Fachliche Spezialisierung<br>- M.Sc. VC: Visual Computing |

**Intended learning outcomes:**
The students ...

- know specific visual analytics solutions that are used in public healthcare applications
- can interpret and evaluate public healthcare data
- present and explain visual analytics solutions in healthcare scenarios

**Content:**

- Overview: Potential and applications of Visual Analytics in Healthcare
- Visual Analytics in Public Health
- Visual Analytics in Clinical Medicine
- Visual Analytics for Detecting Adverse Drug Effects
- Visual Analytics in Epidemiology

**Workload:**
3 credit points = 90 h (28 h attendance time + 62 h independent work), grading scale according to examination regulations

| Pre-examination requirements: | Type of examination: | Teaching method / lecture hours per week (SWS): |
|---|---|---|
| | Examinations: student talk, seminar paper (10 pages) | Seminar (3 SWS) |

| Prerequisites according to examination regulations: | Recommended prerequisites: |
|---|---|
| none | Visualization, Data Mining, Visual Analytics or Information Visualization |

| Media: | Literature: |
|---|---|
| PowerPoint presentation, use of whiteboard, videos | Workshop volumes of the IEEE Workshop Visual Analytics in Healthcare (since 2010), selected publications of other conferences / magazines in the fields of data analysis and visualization |

**Comments:**
Auch anrechenbar für Studierende des Masterstudiengangs "Medical Systems Engineering".

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