

CE598 & CE 698 & IWR598 RESEARCH SEMINAR

Fall 2025-2026

Instructors:

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Lectures: Class will take place on Tuesdays **13:30-15:15**

Outline: Methods to improve and develop research skills and prepare students for professional careers at the graduate level. Includes principles of scientific research, ethics, writing skills, methods for compiling scientific literature, identification of research questions and specific hypotheses, presentation of research results, writing research papers, preparation of grant proposals, thesis and dissertation.

Course Content:

The topics to be covered are listed below:

Week	Topics		
1	Introduction: Scientific methods and research techniques, Analysis of scientific findings	SE	07.10.2025
2	Literature search, using databases	BÖ	14.10.2025
3	How to write technical papers, Technical publication process	SE	21.10.2025
4	Writing part of a technical paper ,Ethical issues in peer review and publication, Conflict of interest in scientific research	SE	04.11.2025
4	Case study (Assignment I) -Writing part of a technical paper	SE	11.11.2025
5	How to read a paper?	BÖ	18.11.2025
7	Case study (Assignment II) - Review of a technical paper	BÖ	25.11.2025
8	Planning the research project	BÖ	02.12.2025
9	How to write research proposals?	BÖ	09.12.2025
10	Case study (Assignment III) -Writing research proposals	BÖ	16.12.2025
11	How to give a good presentation?	SE	23.12.2025
12	Seminars (Assignment IV)	SE-BÖ	23.12.2025

13	Seminars	SE-BÖ	30.12.2025
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P.S.: Successful completion of assignments are required to pass the class. It is also mandatory to attend the 'Case study' workshops.

References:

1. Paul D., Leedy and Jeanne Ellis Ormrod "Practical Research, Planning and Design", 11th edition
2. C.R. Kothari. "Research Methodology - Methods and Techniques", 2nd Edition, New Delhi, New Age International (P) Limited, 2003.
3. W. Strunk, and E.B. White. "The Elements of Style"
4. Swales, J. M. and Feak, C. B., "Academic Writing for Graduate Students: Essential Tasks and Skills", Second Edition, Michigan Series in English for Academic & Professional Purposes, The University of Michigan Press, Ann Arbor, 2004.