

*Interdisciplinary Winter Summer School 2024*

# Seminar paper

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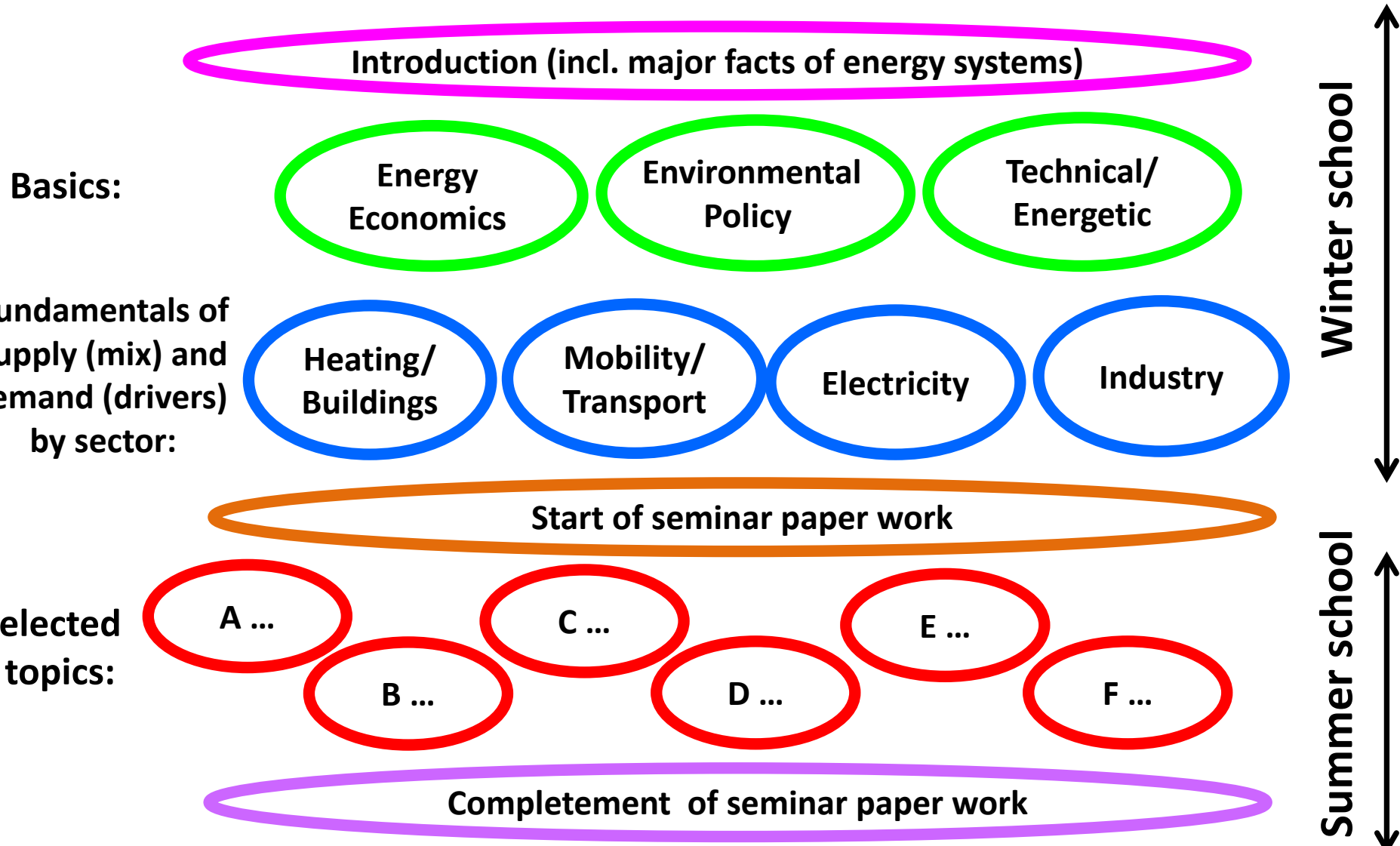
Institute of Energy Systems and Electrical Drives

Vienna University of Technology

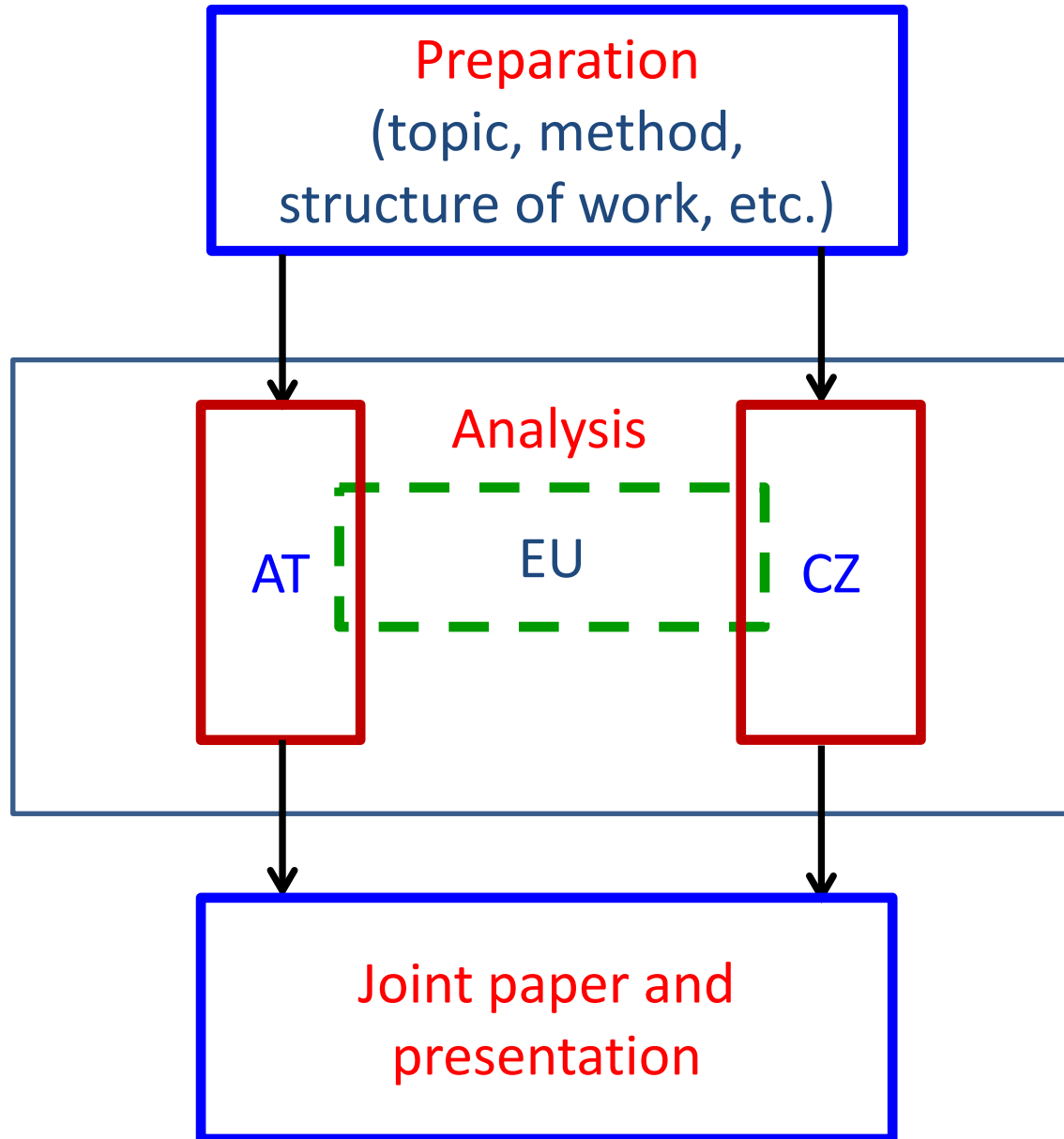
Web: <http://eeg.tuwien.ac.at>

# ENERGY SYSTEMS

*Basic structure of CZ-AT Winter and Summer School on „Energy Systems in Austria and the Czech Republic “*



# *Joint seminar work*



# How to Write a Paper

# Seminar paper

1. Select **topic**



2. Create **bilateral group** (AT-CZ)



# ***Making an Outline***

## **Begin your research**

- ✓ ***Data:** journal articles, books, academic databases, Web pages, etc.*

## **Make an Outline** (ca. 2-3 pages) - **15.03.24**

- ✓ *Introduction*
- ✓ *Core objective*
- ✓ *Method & major data/literature*
- ✓ *Work structure*
- ✓ *Discuss your outline with your supervisor*

## **Write your paper**

# *Structure of a Seminar Paper*

## 1. Title

- ✓ select an informative title

## 2. Abstract

- ✓ summary of your work
- ✓ ca. 300 words
- ✓ Incl. the rationale behind the study, method of approach, major results and conclusions

# *Structure of a Seminar Paper*

## 3. Introduction

- ✓ Motivation
- ✓ Hypothesis, objective
- ✓ Literature
- ✓ Structure of the work

## 4. Methodology

- ✓ Describe data used
- ✓ Describe methodology, formal framework (equations, models, etc. )



# *Structure of a Seminar Paper*

## 5. Results

- ✓ Goal: to present and illustrate your findings
- ✓ Summarize your findings in text and illustrate them (figure, tables)
- ✓ Describe each of your results
- ✓ Analyse your data
- ✓ Support every statement you make with evidence!

## 6. Conclusion

- ✓ Briefly summarize your findings
- ✓ Recommendations, lesson learned

# ***Structure of a Research Paper***

## **7. References**

- ✓ List all literature cited in your paper

### **Examples:**

#### ***Reference to a journal publication:***

[1] Van der Geer, J., Hanraads, J.A.J., Lupton, R.A., 2010. The art of writing a scientific article. *J. Sci. Commun.* 163, 51–59.

#### ***Reference to a book:***

[2] Strunk Jr., W., White, E.B., 2000. *The Elements of Style*, fourth ed. Longman, New York.

#### ***Reference to a chapter in an edited book:***

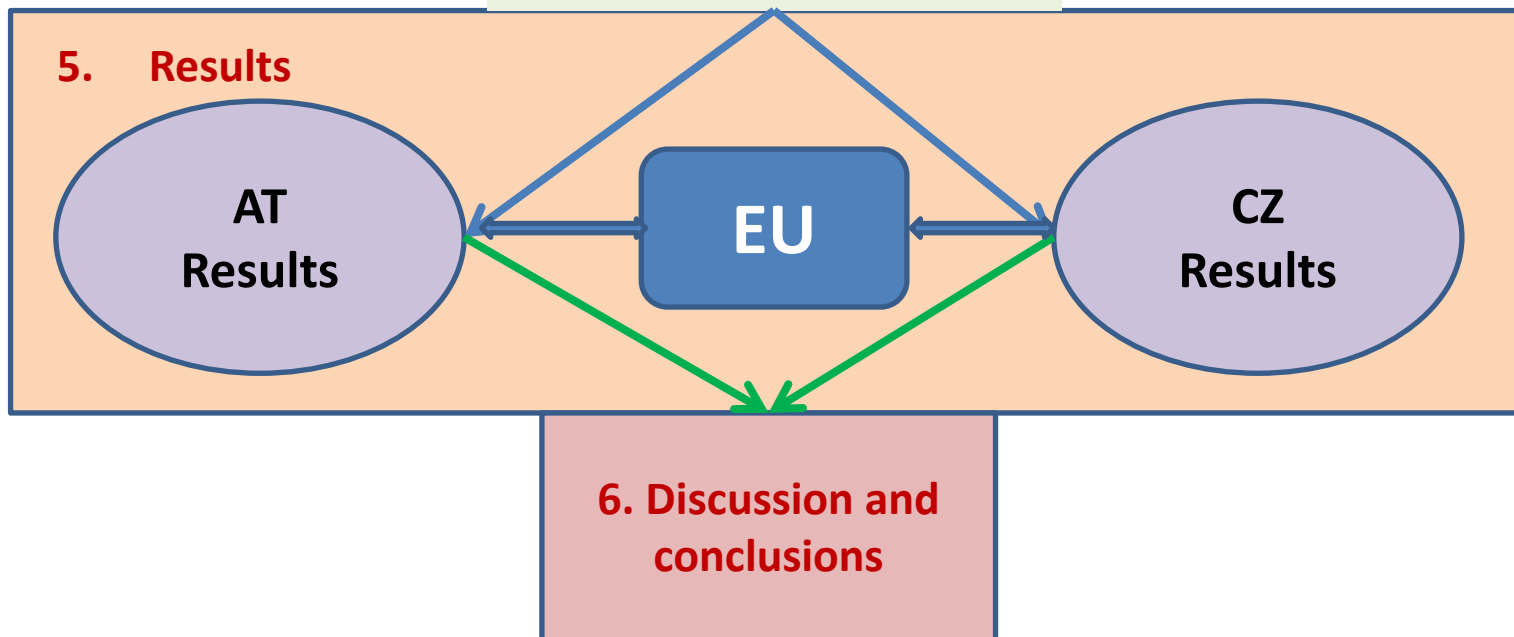
[3] Mettam, G.R., Adams, L.B., 2009. How to prepare an electronic version of your article, in: Jones, B.S., Smith, R.Z. (Eds.), *Introduction to the Electronic Age*. E-Publishing Inc., New York, pp. 281–304.

# *Your Paper*

1. Title
2. Abstract
3. Introduction
4. Methodology

**01.05.2024**

**13-17.05.2024**



# *Seminar Work*

**MOST IMPORTANT:**  
**ALL TOPICS OF SEMINAR WORK FOCUS**  
**ON COMPARISONS BETWEEN**  
**CZECH REPUBLIC,**  
**AUSTRIA, AND THE EU**  
**IN GENERAL!**

# **TOPICS FOR SEMINAR WORK (RH)**

- 1. THE RELEVANCE AND COSTS OF SHORT VS LONG-TERM STORAGE**
- 2. DEMAND SIDE MANAGEMENT: ECONOMIC EVALUATION AND COMPARISON**
- 3. WHOLESALE ELECTRICITY MARKETS: Differences in price, developments, structure...**
- 4. PROMOTING RENEWABLE ELECTRICITY: TARGETS; STRATEGIES, BY TECHNOLOGY**

# TOPICS FOR SEMINAR WORK (AA)

5. BIOFUELS: POLICIES, FEEDSTOCKS, COSTS

6. E-MOBILITY IN URBAN AREAS – Different transport modes, stock, policies

7. ELECTRIC VS GASOLINE VEHICLES: Total Costs of Ownership (TCO), emissions

8. TRANSPORT POLICIES: NATIONAL AND EU POLICIES

9. CITY BUSES: DIESEL-, CNG-, BATTERY- AND HYDROGEN BUSES

# **TOPICS FOR SEMINAR WORK (JK)**

**10. INTENTIONAL GROWN BIOMASS FOR ENERGY PURPOSES AND SOLID BIOFUELS**

**11. INTERNATIONAL ELECTRICITY EXCHANGE IN EUROPE: PROBLEMS AND CHALLENGES**

**12. NECP: comparing CZ and AT and new challenges resulting from Green Deal**

**13. ENERGY SAVING**

**14. BIOMASS POTENTIALS AND BIOMASS COMPETITIVENESS**



# Summer School in Vienna

13- 17 May 2024

