

*Interdisciplinary Winter Summer School 2023*

# Seminar paper

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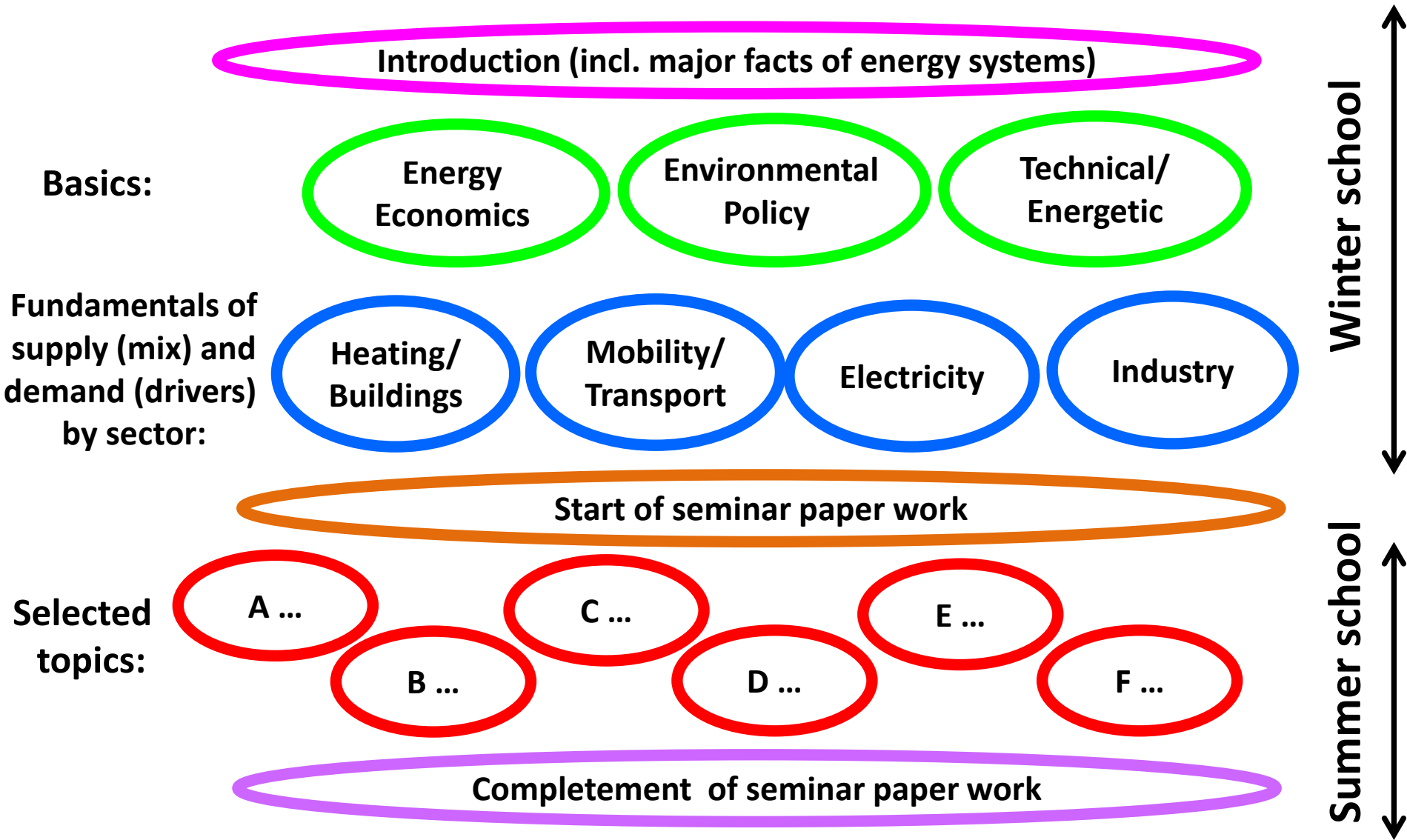
Institute of Energy Systems and Electrical Drives

Vienna University of Technology

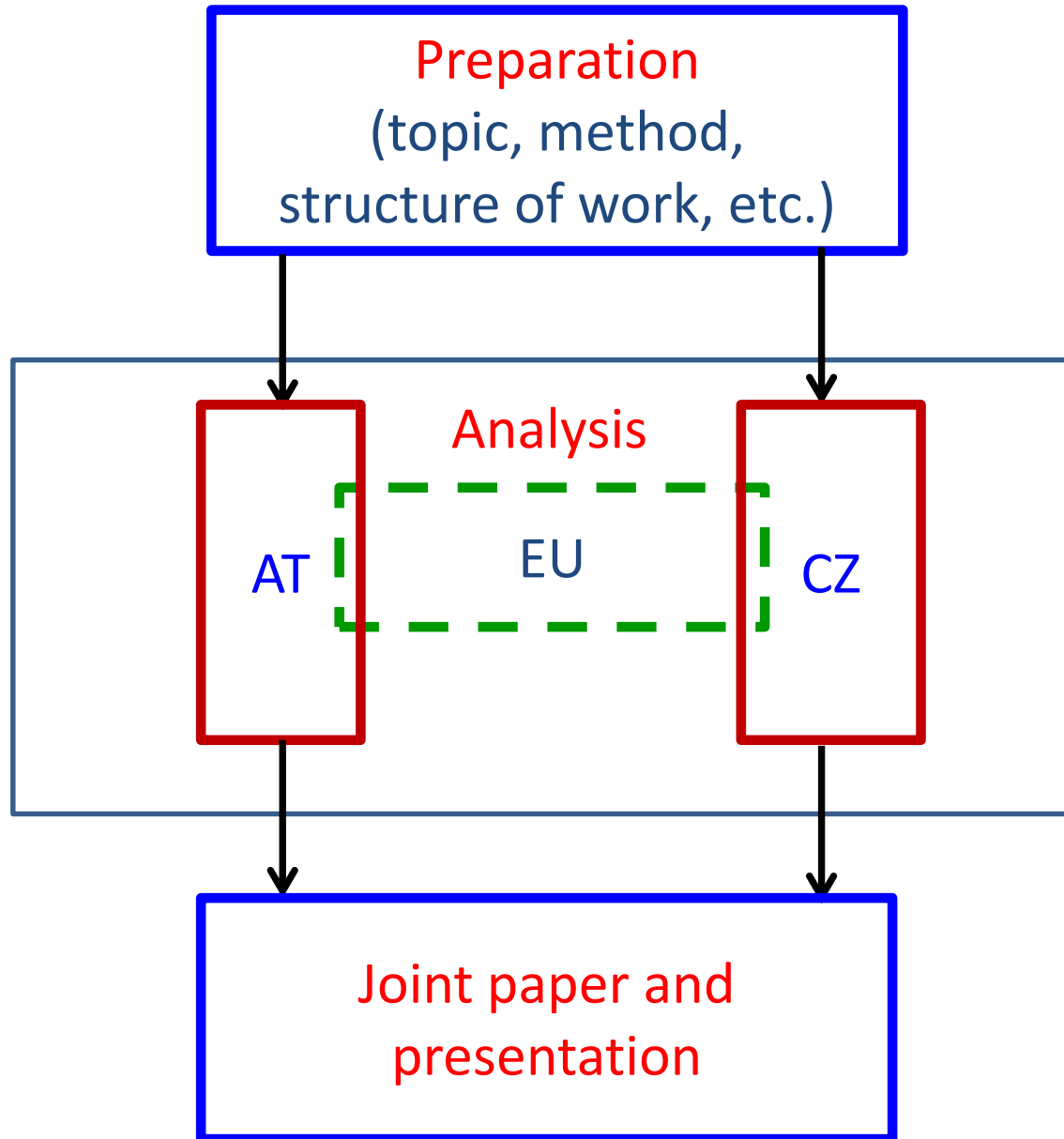
Web: <http://eeg.tuwien.ac.at>

# 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) - 15.03.23**

- ✓ *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
- ✓ Core 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:***

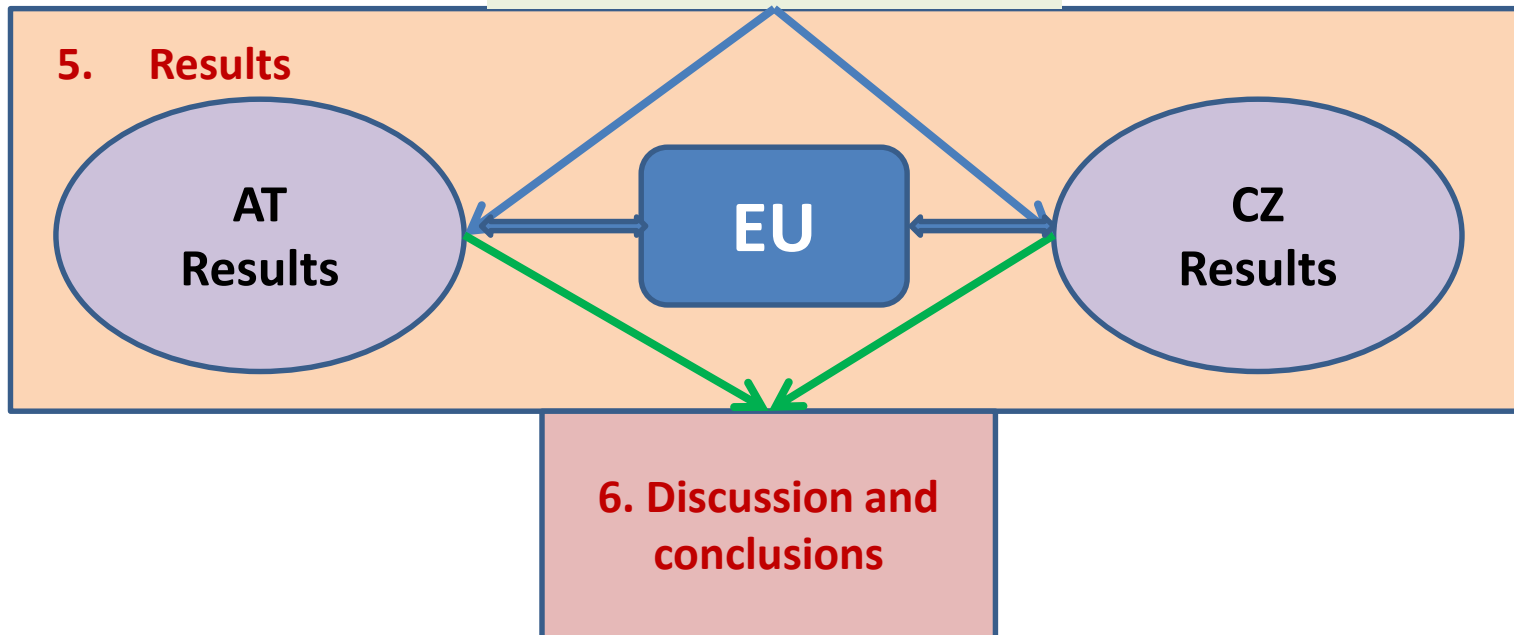
[3] Mettam, G.R., Adams, L.B., 2009. How to prepare an electronic version of your article, in: Jones, B.S., Smith, R.Z. (Eds.), *Introduction to the Electronic Age*. E-Publishing Inc., New York, pp. 281–304.

# *Your Paper*

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

**01.06.2023**

**12-16.06.2023**



# *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. WHOLESALE ELECTRICITY MARKETS IN EUROPE:  
Differences in price, developments, structure...**
- 2. PROMOTING RENEWABLE ELECTRICITY: TARGETS;  
STRATEGIES, BY TECHNOLOGY**
- 3. Prospects for peer-to-peer energy trading**
- 4. Energy Communities: Comparing the implementation  
of EU directives and initiatives**
- 5. The relevance and costs of short vs long-term storage**

# TOPICS FOR SEMINAR WORK (AA)

6. **BIOFUELS: POLICIES, FEEDSTOCKS; COSTS**

7. **E-MOBILITY: Different transport modes**

8. **ELECTRIC VS GASOLINE VEHICLES: Total Costs of Ownership (TCO)**

9. **TRANSPORT POLICIES: NATIONAL AND EU POLICIES**

10. **BUSES: DIESEL-, CNG-, BATTERY- AND HYDROGEN BUSES**

# TOPICS FOR SEMINAR WORK (JK)

11. INTERNATIONAL GROWN BIOMASS FOR ENERGY PURPOSES AND SOLID BIOFUELS

12. INTERNATIONAL ELECTRICITY EXCHANGE IN EUROPE: PROBLEMS AND CHALLENGES

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

14. Biomethane: current state, perspectives (REPowerEU), feedstock, economic competitiveness of biomethane

15. District heating system - current state, new challenges, transformation towards low carbon systems, sector coupling



**Summer School in  
Vienna**

**12- 16 June 2023**

**INTERDISCIPLINARY  
SPRING AND SUMMER  
SCHOOL**

**ON ENERGY SYSTEMS IN CZECHIA  
AND AUSTRIA**