

Interdisciplinary Winter Summer School 2021

Seminar paper

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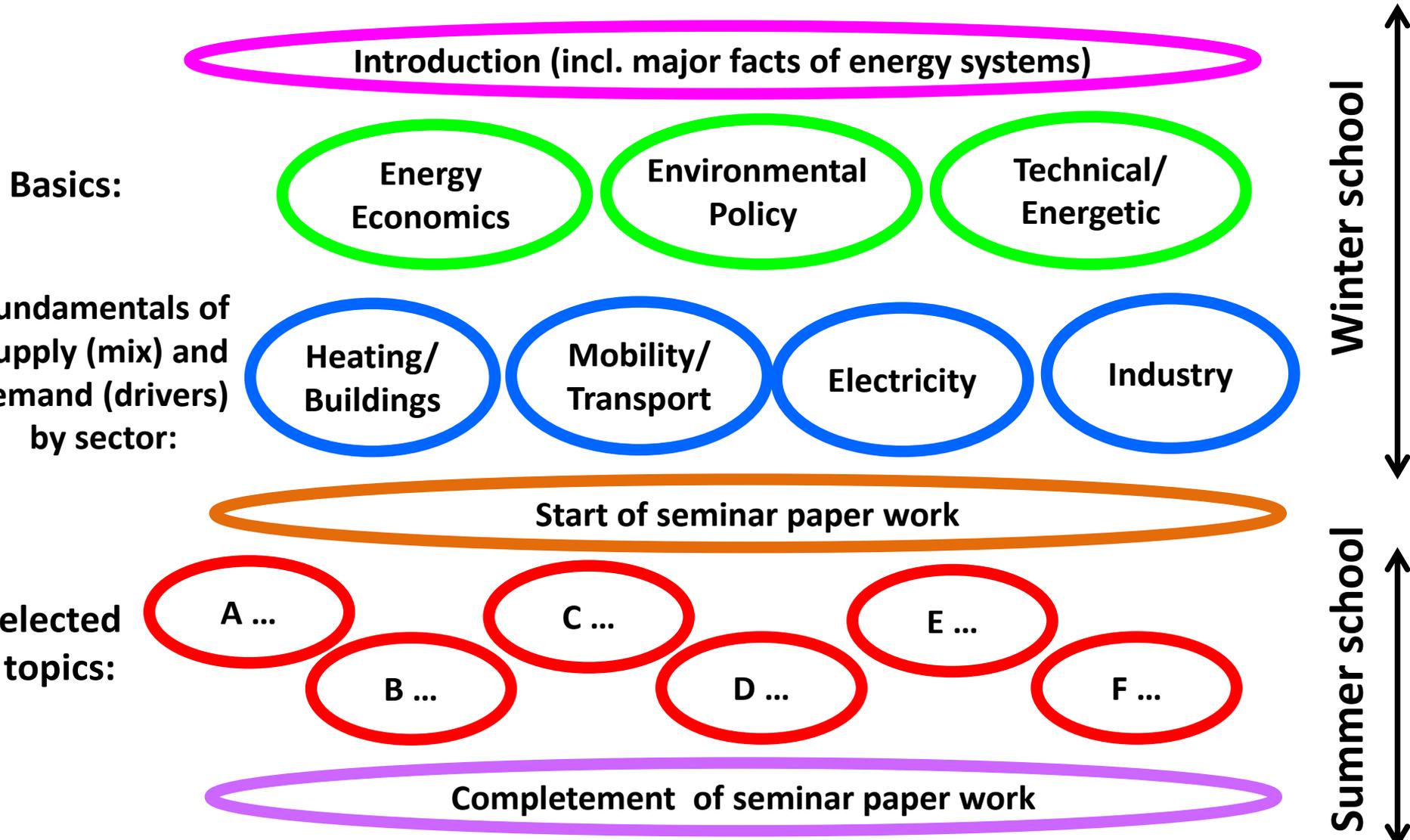
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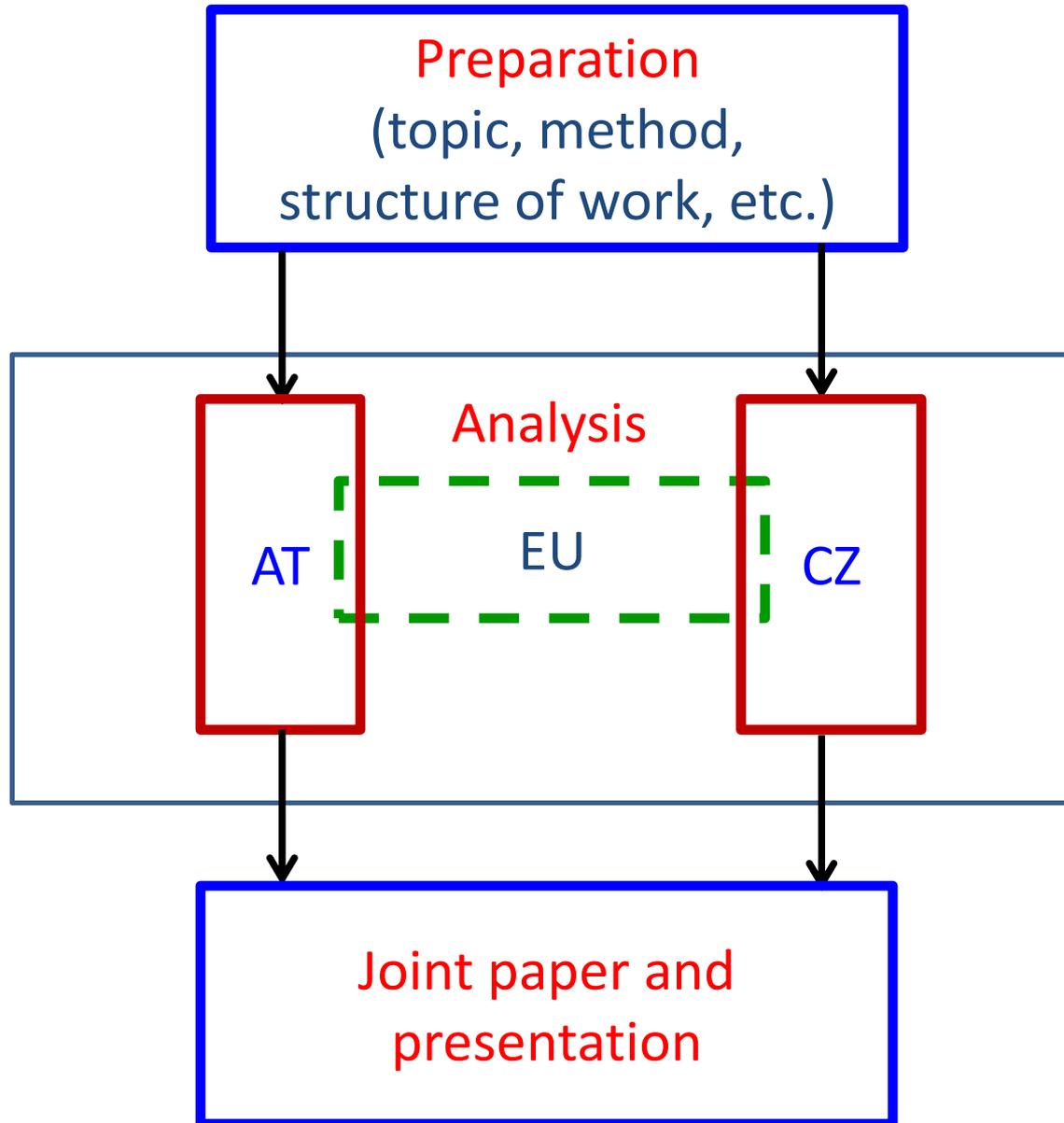
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ENERGY SYSTEMS

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) - 15.05.21

- ✓ *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.

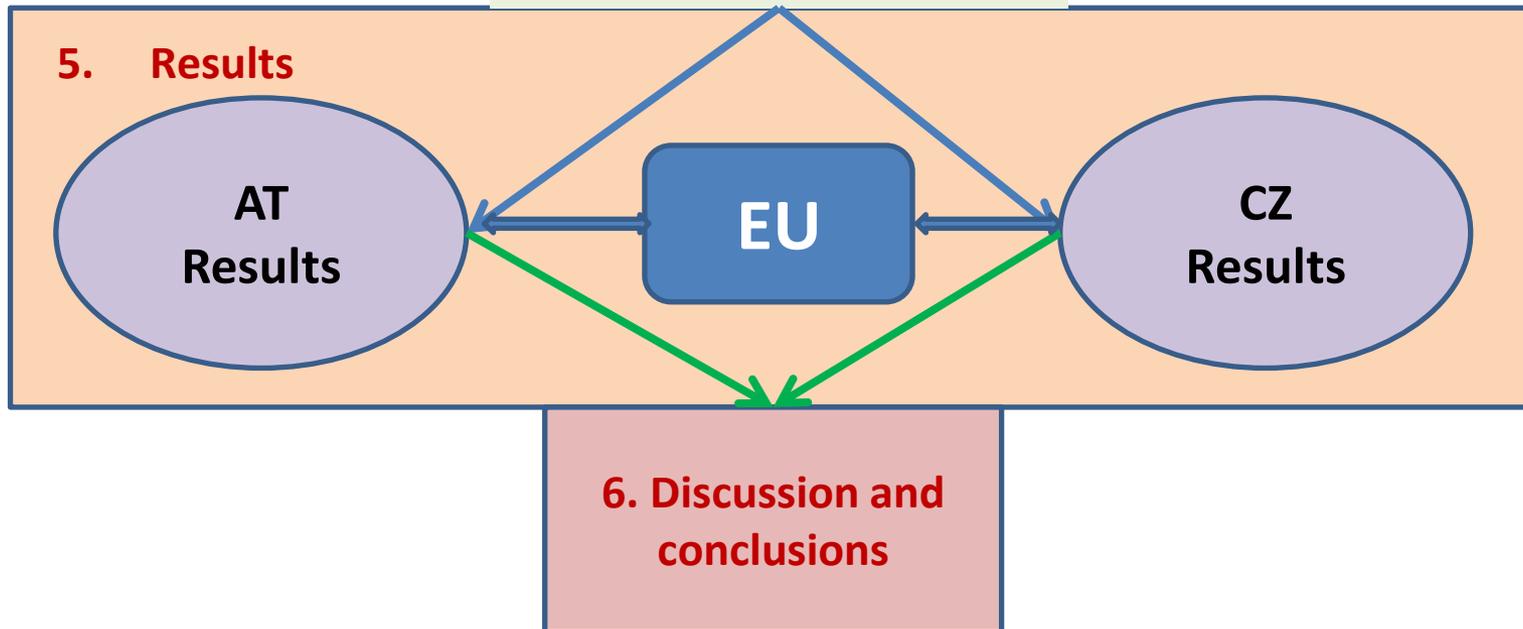
Reference to a chapter in an edited book:

[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

21.06.2021



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/NH)

- 1. THE RELEVANCE AND COSTS OF SHORT VS LONG-TERM STORAGE**
- 2. ENERGY COMMUNITIES: COMPARING THE IMPLEMENTATION OF EU DIRECTIVES AND INITIATIVES**
- 3. DEMAND SIDE MANAGEMENT: ECONOMIC EVALUATION AND COMPARISON**
- 4. ACTIVE DISTRIBUTION NETWORKS: COMPARISON OF CHALLENGES & DEVELOPMENTS**

TOPICS FOR SEMINAR WORK (AA)

5. BIOFUELS: POLICIES, QUANTITIES; FEEDSTOCKS; COSTS

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

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

8. TRANSPORT POLICIES: NATIONAL AND EU POLICIES

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

TOPICS FOR SEMINAR WORK (JK)

10. INTERNATIONAL 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

TOPICS FOR SEMINAR WORK

Name, email

AT / CZ

3 topics

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**INTERDISCIPLINARY
BILATERAL WINTER AND
SUMMER SCHOOL
ON ECONOMIC, ENVIRONMENTAL,
POLICY, AND TECHNICAL ASPECTS
OF ENERGY SYSTEMS**

**Summer School in
Vienna
28 June-2 July
2021**