



# UNIK4710/UNIK9710 Introduction

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UNIK4710-Introduction  
UNIK4710/UNIK9710

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The screenshot shows a slide from the UNIK University Graduate Center website. The title is "What To Achieve". Under "Academic work", there is a bulleted list: "how we build up list of references", "modelling approach", and "detailed list of topic (next slide)". The word "references" is circled in red. To the right of the slide, handwritten notes in red say "Search for literature". Below "Academic work", there is another section: "Develop an own-standing example of context-awareness". Under this, there is a bulleted list: "think about a scenario", "present the scenario", "identify the categories which need semantics (=machine readable understanding of context)", "implement an ontology (= hierarchical representation of information)", and "establish rules to reason (= retrieve information) from the data". The word "context-awareness" is circled in red. To the right of this section, handwritten notes in green say "= mobile", "Bing", and "FAST".

## What To Achieve

Academic work

- how we build up list of references
- modelling approach
- detailed list of topic (next slide)

Develop an own-standing example of context-awareness

- think about a scenario
- present the scenario
- identify the categories which need semantics (=machine readable understanding of context)
- implement an ontology (= hierarchical representation of information)
- establish rules to reason (= retrieve information) from the data

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## Keywords In Mobile Semantics

- ontology
- user profiles, identities, roles
- community profiles
- context profiles
- semantic rules
- reasoning

Generate "introduction to protege"

- difference protege 4 versus protege 3.x
- what to know
- Rules for semantic - implementations

Scenario → Train Sch.

Rules

Ontology

User → PPAM

Train → ILCS

DESTI → ILCS

TIMECT → ILCS

has a destinat.

has a timetable

PROTEGE + JESS

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```

graph LR
    User --- Jobs
    Jobs --- Companies
    Jobs --- FastSearch[Fast Search]
    Jobs --- JobType[Job Type]
    JobType --- ITManagement[IT Management]
    JobType --- Ad[Ad.]
    JobType --- Preferences[Preferences]
    Preferences --- Full[Full]
    Preferences --- Temp[Temp.]
    Preferences --- Part[Part.]
    JobType --- Userprofile[User profile]
    Userprofile --- CV[CV]
    Userprofile --- Perf[Perf.]
    LocAct[Loc->Act] --- Places[Places]
  
```

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## Example: Context Aware And Personalised

TV: integration of private, community and broadcast content.

- Integration of personal content in the STB
- Seamless authentication through Bluetooth
- Sorting of broadcast content according to user preferences

Preferred Content

- Telenor\_Game
- Guns\_N\_Roses
- TVSeries\_Dallas
- Monaco\_Grand\_Prix
- NHL\_2008
- NFSXIII
- Last\_Christmas\_G.Michael
- Euro\_2008\_final

Bob

- + video
- + audio
- + pictures

Kar

- + H
- + J
- + T

Youtube.....  
Welcom