

SCHOOL OF SOCIAL SCIENCES SOLAPUR UNIVERSITY, SOLAPUR



NAAC Accredited-2015
'B' Grade (CGPA 2.62)

Name of the Faculty : Futures Studies

Name of the Course : Future Sustainable Energy Challenges

With effect from 2016-17

1) Preamble :

Futures/Foresight Studies is an emerging discipline for India. In the west it has been evolved as an academic discipline and has assumed significance in administration and planning. The importance of Futures Studies is to enable us to know what is possible, what is probable and what is preferable.

2) Objective of the Course :

The core objective of the course is to familiarize students on various methods of futures studies and instill skills to apply those methods in the context of “Future Sustainable Energy Challenges”

Semester II

Future Sustainable Energy Challenges

Part I Introduction 4 credits

Learning outcomes

Students can apply futures studies and foresight approaches for practical case studies and can analyse different trends of global development and their relation to the different dimensions of sustainable energy challenges. They are able to analyse the global drivers of the trends and their impacts on futures development. They are able to study the global resource use and related development and sustainability energy challenges. Students are also able to evaluate various alternative efforts to deal with these problems.

Content

During the course, students learn the use and interpretation of futures studies theories and methods. Furthermore, students use various analysis methods to examine key global sustainability challenges, critical trends and different dimensions of sustainability energy challenges.

Recommend year of study

Master studies

Teaching methods

Intensive lecture course 31.1.-3.2.2017/ 1.2.-8.2.2017:

1. day: Introduction to Futures Studies (lectures 6 hours)
2. day: Methods of futures studies (lectures in the morning, exercises in the afternoon)
3. day Wednesday: Methods of futures studies (lectures in the morning, exercises in the afternoon)
4. day: Future sustainable energy challenges – global drivers and trends (lectures in the morning, knowledge seeking in the afternoon)
5. day: Successful and controversial renewable energy cases (lecture in the morning and short group work in the afternoon)

Literature reviews (2)

-Renewable Energy Handbook

Passing the course requires completion of (exercises on data collection and analysis and passing) a written exam. The final grade of the course is based on literature reviews and written exam based on the lectures, literature and supplementary material.

Evaluation: 0-5

Previous studies: Bachelor studies

Study materials/literature: To be announced

Online course

Lectures are filmed and broadcasted through moodle in Turku. If this is not possible, there are PhD students who will do the teaching based on the same slides and contents.

Further information

Persons in charge: From FFRC Juha Kaskinen, Mika Korkeakoski, Noora Vähäkari

From Solapur University:

Semester III

Future Sustainable Energy Challenges

Part II Alternative applications and methods 4 credits

Learning outcomes

Students apply futures studies and foresight approach for *practical case studies* in transdisciplinary teams and can analyse different trends of global development and their relation to the different dimensions of local sustainable energy challenges (political, social, cultural, technological, economic and social aspects of energy development). They are able to analyse the global drivers of the trends and their impacts on futures development. They are able to study the global resource use and related development and sustainability energy challenges. Students are also able to evaluate various alternative efforts to deal with these problems from alternative perspectives.

Content

During the course, students learn the use and interpretation of futures studies theories and methods applied in *real life case studies carried out on a group work*. Furthermore, students use various analysis methods to examine key challenges, critical trends and different dimensions of sustainability energy in local and regional contexts. Online learning and group dynamics are learned during the course.

Recommend year of study

Master studies

Teaching methods

Intensive course: September-October

- 1. day Introduction to the course and its objectives, group formation.*
- 2. day: Planning the case studies and methods and seeking information*
- 3. day: Guiding the groups*
- 4. day: Guiding the groups*
- 5 day: Presentation of case studies and methods chosen, ways forward*

Output: recommendations and ways forward

Online guiding, participation in group work

Presentation of the case studies and recommendations

Literature review and group report:

Passing the course requires completion of exercises on data collection and analysis for group work. The final grade of the course is based on literature review (25 %) and group report (75%). The group report can be presented in a conference in form of poster, presentation or e.g. video. The best written reports are published in FFRC e-publication series.

Evaluation: 0-5

Previous studies: Future Sustainable Energy Challenges Part I Introduction

Study materials/literature:To be announced

Further information

Persons in charge: From FFRC Juha Kaskinen, Mika Korkeakoski, Noora Vähäkari

From Solapur University: