



COURSE SPECIFICATION 1st SEMESTER

Course Name : Scientific Method
Code : KU 411
Credit : (2-0)

Course Description:

This subject teaches students to think positively, critically, and analytically, so that students can prepare themselves to become part of the scientific community. After attending this course, students are able to analyze problems comprehensively and provide recommendations for problem solving (hard skills), and dare to express opinions, are critical and able to work in teams (soft skills).

References:

- Sedarmayanti dan Hidayat. 2011. Metodologi Penelitian. CV. Mandar Maju. Bandung
- Sangadji, B. 2010. Metode ilmiah.
<http://baimsangadji.blogspot.com/2010/11/makalah-metode-ilmiah-14.html>
- Agus Chandra. 2010. Metode Ilmiah.
<http://www.aguschandra/2010/10/metode-ilmiah/>
- Aditya Nugroho. 2011. Metode Ilmiah.
<http://www.adityanugroho90.blogspot.com/2011/03/metode-ilmiah-atau-proses-ilmiah.html>
- Suryana, 2010. Metode Penelitian. UI Press.
Buku Metode Penelitian.
Proses Berpikir Manusia untuk Memperoleh Pengetahuan.
<http://penelitiandindakankelas.blogspot.com/2013/07/proses-berpikir-manusia-untuk-memperoleh-pengetahuan.html>

Topics:

1. Development of human thought and phenomena
2. Law of causality
3. Prejudice, intuition, trial and error and reasoning
4. Logic
5. Analytic
6. Rationalism
7. Empiricism
8. Deductive, inductive
9. Facts, theories, hypotheses
10. Various theory of truth
11. Problem discovery
12. Formulation of the problem
13. Hypothesis
14. Evidence and substantiation
15. Interpretation / meaning
16. Data / facts