

eValuering 2.1 - Sammanställning

SAMMANSTÄLLNING

Utvärdering: Knowledge-based Systems in Bioinformatics 2007
Antal svarande: 8

WELCOME!

Your opinion is very valuable to us in our work to develop the course you have just participated in. We appreciate your comments about things we should change as well as those we should keep as they are, and feel free to give hands-on suggestions on how to improve the course!

All answers are anonymous. This is important, so do not write your name anywhere in the evaluation since this may enable the tracking of other participants identities.

Thank you for your effort and cooperation!

Torgeir R. Hvidsten

COURSE OBJECTIVES

The course should give an introduction to intelligent bioinformatics; principles and methods for biomedical knowledge representation and inference

- Logic and knowledge representation
- Heuristic search
- Logical inference
- Probabilistic approaches
- Genetic algorithms and genetic programming
- Decision trees and neural networks
- Cellular automata

The course uses the programming language LISP/Scheme to illustrate intelligent bioinformatics and to teach principles of programming

- Procedural and data abstraction
- Lists and hiererachical structures



GENERAL ASPECTS

In my opinion the course is good

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2		0	0
3		0	0
4	██████████	50	4
5 (= fully agree)	██████████	50	4

Medelvärde: 4.5

Standardavvikelse: 0.53

The degree of difficulty of the course has been

Svarsalternativ	Graf (%)	%	Σ
1 (= too low)		0	0
2		0	0
3 (= adequate)	██████	25	2
4	██████████████████	63	5
5 (= too high)	███	13	1

Medelvärde: 3.88

Standardavvikelse: 0.64

The total amount of work on the course (with respect to the credits given) has been

Svarsalternativ	Graf (%)	%	Σ
1 (= too low)		0	0
2		0	0
3 (= adequate)	██████	25	2
4	██████████	38	3
5 (= too high)	██████████	38	3

Medelvärde: 4.13

Standardavvikelse: 0.83

Comments:

● Ta bort något delmoment, fem inluppar, ett ganska stort projekt och en tenta därtill är för mycket för en fempoängskurs. Eller gör kursen längre. Förslagsvis kan tenta tas bort om projektet behålls eller tvärtom. ¹



● Man ska behöva anstränga sig. Det är bra. ⁴

● Alldeles för hög arbetsbelastning inom denna kurs. Det blir alldeles för mycket med 5 inlämningsuppgifter, 1 stort projekt samt tenta. Något av det måste tas bort, denna kurs tog fruktansvärt mycket tid. ⁵




EVALUATION AND DEVELOPMENT

In the beginning of the course, were you informed about results from previous evaluations and measures taken in response to them?


Svarsalternativ	Graf (%)	%	Σ
Yes		63	5
No		38	3

Have you during the course been given a scheduled opportunity to give written and anonymous suggestions on how to improve the ongoing course?




Svarsalternativ	Graf (%)	%	Σ
Yes		0	0
No		100	8

OBJECTIVES AND CONTENT

In the beginning of the course, were you informed about the objectives, aims and content of the course?

Svarsalternativ	Graf (%)	%	Σ
Yes		100	8
No		0	0

In my opinion, the course objectives were met

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2		0	0
3		25	2
4		63	5
5 (= fully agree)		13	1

Medelvärde: 3.88

Standardavvikelse: 0.64

In my opinion, the course has relevant connections to current research

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2		0	0
3	█	13	1
4	████████████████████	63	5
5 (= fully agree)	██████	25	2

Medelvärde: 4.13

Standardavvikelse: 0.64

In my opinion, the course has relevant connections to working life

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2	█	13	1
3	██████████	38	3
4	████████████████	50	4
5 (= fully agree)		0	0

Medelvärde: 3.38

Standardavvikelse: 0.74

Comments:

- Nyttigt att lära sig scheme, men lite oklart vad vi har för nytta av det i framtiden. Känns som att lära sig för lärandets skull. ¹
- Verkar inte som att Scheme används speciellt mycket ute på arbetsmarkanden. ⁵

COURSE ADMINISTRATION AND COMMUNICATION

In my opinion, the number of course activities led by teachers in the current schedule is

Svarsalternativ	Graf (%)	%	Σ
1 (= too low)		0	0
2	█	13	1
3 (= adequate)	████████████████████	63	5
4	██████	25	2
5 (= too high)		0	0

Medelvärde: 3.13

Standardavvikelse: 0.64

In my opinion, I was well informed about the aims and objectives of different course activities

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2		0	0
3	■	13	1
4	■	50	4
5 (= fully agree)	■	38	3

Medelvärde: 4.25

Standardavvikelse: 0.71

Communication and cooperation between teachers and students worked satisfactorily

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2		0	0
3	■	13	1
4	■	13	1
5 (= fully agree)	■	75	6

Medelvärde: 4.63

Standardavvikelse: 0.74

Comments:

- Om projektet behålls, gärna mer tid med lärare (eller lab.ass.).¹
- Det behövs mer tid åsatt för projektet när det finns en lärare på plats. Projektet var såpass svårt att det ibland var omöjligt att komma vidare utan handledning. då känns det rätt lönlöst att sitta timme efte timme i datalabet och inte komma nånvart.⁵

TEACHERS PERFORMANCE

Torgeir's teaching was clear and well structured

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2		0	0
3		0	0
4	■	38	3
5 (= fully agree)	■	63	5

Medelvärde: 4.63

Standardavvikelse: 0.52

Torgeir's teaching was engaging

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2		0	0
3	█	13	1
4	████████████████████	63	5
5 (= fully agree)	████████	25	2

Medelvärde: 4.13

Standardavvikelse: 0.64

What did the teachers do particularly well in this course?

- Torgeir har ett engagerande sätt. ¹
- Det fanns ett bra engagemang och man fick bra hjälp. ⁵

What should the teachers consider to improve in this course?

- Kursen är generellt för bred och försöker fördjupa inom för mycket. Avgränsa. ¹
- Minska arbetsbördan ⁵

TEACHING FORMS

During the course different types of course activities were used. Evaluate how valuable each type of activity was to your learning.

Lectures

Svarsalternativ	Graf (%)	%	Σ
1 (= not valuable at all)		0	0
2	█	13	1
3	████	25	2
4	████████████	38	3
5 (= very valuable)	████████	25	2

Medelvärde: 3.75

Standardavvikelse: 1.04

Excercise 5 (logic)

Svarsalternativ	Graf (%)	%	Σ
1 (= not valuable at all)		0	0
2		0	0
3	█	13	1
4	████████████████████	63	5
5 (= very valuable)	██████	25	2

Medelvärde: 4.13

Standardavvikelse: 0.64

Projects

Svarsalternativ	Graf (%)	%	Σ
1 (= not valuable at all)		0	0
2		0	0
3	██████████	38	3
4	█	13	1
5 (= very valuable)	████████████████	50	4

Medelvärde: 4.13

Standardavvikelse: 0.99

Computer excercises (Excercises 1-4)

Svarsalternativ	Graf (%)	%	Σ
1 (= not valuable at all)		0	0
2		0	0
3	█	13	1
4	████████████████████	63	5
5 (= very valuable)	██████	25	2

Medelvärde: 4.13

Standardavvikelse: 0.64

Assess for each activity type whether it should be given more or less space during the course.

Lectures

Svarsalternativ	Graf (%)	%	Σ
1 (= should be given less space)		0	0
2	█	13	1
3 (= adequate space)	████████████████████	75	6
4	█	13	1
5 (= should be given more space)		0	0

Medelvärde: 3

Standardavvikelse: 0.53

Excercise 5 (logic)

Svarsalternativ	Graf (%)	%	Σ
1 (= should be given less space)	█	13	1
2		0	0
3 (= adequate space)	████████████████████	75	6
4		0	0
5 (= should be given more space)	█	13	1

Medelvärde: 3

Standardavvikelse: 1.07

Projects

Svarsalternativ	Graf (%)	%	Σ
1 (= should be given less space)		0	0
2		0	0
3 (= adequate space)	████████████████	50	4
4	█	13	1
5 (= should be given more space)	██████████	38	3

Medelvärde: 3.88

Standardavvikelse: 0.99

Computer excercises (Excercises 1-4)

Svarsalternativ	Graf (%)	%	Σ
1 (= should be given less space)		0	0
2		0	0
3 (= adequate space)	██████████	50	4
4		0	0
5 (= should be given more space)	██████████	50	4

Medelvärde: 4

Standardavvikelse: 1.07

Comments:

- Stor arbetsbörda och tigha deadlines. ¹
- Svårt att hänga med tidsmässigt på den korta lärarledda tid som var avsatt för excercises och projekt. ⁵

LITERATURE

Below you find some questions concerning the course literature. Please note that the questions only concerns those parts of the literature that were relevant to the course.

The main course literature was E. Keedwell, A. Narayanan, Intelligent bioinformatics and H. Abelson, G.J. Sussman, Structure and Interpretation of Computer Programs. Besides this a number of scientific articles were treated.



In my opinion, the course literature was good

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)	██████████	50	4
2		0	0
3	██████████	50	4
4		0	0
5 (= fully agree)		0	0

Medelvärde: 2

Standardavvikelse: 1.07



The amount of course literature was

Svarsalternativ	Graf (%)	%	Σ
1 (= too small)		25	2
2		0	0
3 (= adequate)		75	6
4		0	0
5 (= too large)		0	0

Medelvärde: 2.5

Standardavvikelse: 0.93

The degree of difficulty of the course literature was

Svarsalternativ	Graf (%)	%	Σ
1 (= too elementary)		25	2
2		0	0
3 (= adequate)		75	6
4		0	0
5 (= too difficult)		0	0

Medelvärde: 2.5

Standardavvikelse: 0.93

Comments:

- Inte köpt, inte läst. Även om jag hade velat köpa hade jag inte haft tid att öppna boken. ¹
- Har inte läst nån litteratur. ³
- På frågan: In my opinion, the course literature was good svarar jag 1 eftersom jag inte ens vet hur boken ser ut. Har alltså inte köpt boken, vilket jag tror är ett bra val. ⁴
- läste aldrig kurslitteraturen. ⁵
- Jag läste aldrig någonting i litteraturen. Det behövdes inte eftersom all information togs upp på föreläsningar, exercise och projekt. ⁸

OWN PERFORMANCE / BENEFITS FROM THE COURSE

I participated actively in the course

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2		0	0
3	█	13	1
4	██	38	3
5 (= fully agree)	████	50	4

Medelvärde: 4.38

Standardavvikelse: 0.74

I am satisfied with my own efforts in the course.

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2		0	0
3	██	38	3
4	██	38	3
5 (= fully agree)	█	25	2

Medelvärde: 3.88

Standardavvikelse: 0.83

In total I spent the following hours per week on course work (including scheduled as well as non-scheduled hours)

Medelvärde: 44

Standardavvikelse: 19.63

Antal svarande: 7

Besides knowledge in the subject matters of the course, university level education should train skills in communication, critical thinking and problem solving.

In my opinion, the course contributed to improve my ability to communicate in writing

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)	██	25	2
2	█	13	1
3	████	63	5
4		0	0
5 (= fully agree)		0	0

Medelvärde: 2.38

Standardavvikelse: 0.92

In my opinion, the course contributed to improve my ability to communicate orally

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		25	2
2		0	0
3		63	5
4		13	1
5 (= fully agree)		0	0

Medelvärde: 2.63

Standardavvikelse: 1.06

In my opinion, the course contributed to improve my cooperation ability

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		13	1
2		0	0
3		38	3
4		38	3
5 (= fully agree)		13	1

Medelvärde: 3.38

Standardavvikelse: 1.19

In my opinion, the course contributed to improve my ability for critical thinking

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		25	2
2		0	0
3		25	2
4		38	3
5 (= fully agree)		13	1

Medelvärde: 3.13

Standardavvikelse: 1.46

In my opinion, the course contributed to improve my problem solving ability

Svarsalternativ	Graf (%)	%	Σ
1 (= don't agree at all)		0	0
2		0	0
3	■	13	1
4	■	13	1
5 (= fully agree)	■	75	6

Medelvärde: 4.63

Standardavvikelse: 0.74

Comments:

(Inga svar.)

FREE COMMENTS

What in this course was particularly good?

- Ganska intressant kurs, trots att den överväldigar. ¹
- Torgeir ²
- Själva kursen i sig var intressant och rolig, och kul att lära sig ett nytt programmeringsspråk. ⁵
- Kul exercises och projekt! ⁸

What in this course can be improved?

- Se ovan. ¹
- More time is needed! ²
- men arbetsbördan gjorde att man inte uppskattade det lika mycket. Man lessnade efter ett tag. ⁵
- Det vore skönt att vara på EBC mer eftersom det har trevligare lokaler och ligger närmare där alla bor. ⁸

MISCELLANEOUS

If you have any other comments about the course, feel free to append them here.

- Mer planering av kursen så att man inte behöver lägga så otroligt mycket tid på den. ⁵