

04102017_BoS_13_Update Changes to compulsory elective subjects for AI DPT's

On Wed, Jul 5, 2017 at 11:36 AM, Alexandra Welsh via RT

<rt+ito@inf.ed.ac.uk> wrote:

> Hello Sharon,

>

> Thank you for clarifying the AI+Management was actually AI with Management

> earlier on the phone - I didn't want to change the wrong DPT.

>

> I have made the requested changes to the following DPTs, with compulsory

> options for 3rd year students to choose Computer Science Large Practical

> (INFR09044) OR AI Large Practical (INFR09043) -

>

> Artificial Intelligence (BSc Hons) (UTAINTL)

>

> Artificial Intelligence and Computer Science (BSc Hons) (UTAICSC)

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> Artificial Intelligence and Mathematics (BSc Hons) (UTAIMAT)

>

> Artificial Intelligence with Management (BEng Hons) (UTAIMNG)

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>

> I have also changed the following DPT with compulsory options for 3rd year

> students to choose between Computer Science Large Practical (INFR09044) OR AI

> Large Practical (INFR09043) OR Software Engineering Large Practical (INFR09045)

> -

>

> Artificial Intelligence and Software Engineering (BEng Hons) (UTAISEN)

>

> The change should show up on the system overnight if it hasn't already.

>

> I will let Stephen Gilmore know of the change as he is allocated as the CSLP

> course lecturer.

>

> Please let me know if there is anything else.

>

> Hope you have a lovely day. :)

>

> Kind Regards,

> Alexandra Welsh

> Informatics Student Services

> University Of Edinburgh

----- Original Message -----

Subject: Re: [inf-dot] changes to dpt: deadline?

Date: Mon, 16 Jan 2017 09:59:57 +0000

From: Sharon Goldwater <sgwater@inf.ed.ac.uk>

To: Bjoern Franke <bfranke@inf.ed.ac.uk>

CC: inf-dot@inf.ed.ac.uk

Also, students on AI+SE should be able to do SELP (that is, option of any of the three). For obvious reasons: it's in their degree title.

--AuH2O

On Mon, Jan 16, 2017 at 9:52 AM, Sharon Goldwater <sgwater@inf.ed.ac.uk> wrote:

>

> I would like to propose a minor change to the DPTs for the following degrees:

>

> AI

> AI+CS

> AI+SE

> AI+math

> AI w mgmt

>

> In these five degrees (only), AILP is a required third year course. I

> propose to modify the DPTs so that *either* AILP or CSLP can be taken
> in third year.

>

> Rationale (detailed below): AILP and CSLP have extremely similar

> learning outcomes, and in practice CSLP may cover material that is

> equally or more relevant to many level 10/11 AI courses and honours

> projects.

>

> Possible side effects for enrollment/resourcing also detailed below.

>

> 1. Though worded differently, AILP and CSLP have extremely similar
> learning outcomes.

>

> AILP:

>

> -Design and implement a complex system.

> -Consider alternative designs, both for internal properties, and as

> ways of tackling a given problem.

> -Read technical papers, and explain their relevance to the chosen

> approach.

> -Design and carry out appropriate experiments, and explain the

> methodology involved.

> -Write a scholarly report, suitably structured and with supporting

> evidence.

- >
- > CSLP:
- >
- > -Plan to manage complex systems with competing requirements, read
- > technical papers and extract relevant content.
- > -Consider and compare possible structures for a design.
- > -Plan to manage their time and resources in completing a large
- > project.
- > -Implement and debug a computer system of medium to large size.
- > -Analyse the performance of a system, and write clear and concise
- > documentation.
- >
- > 2. In practice CSLP may cover material that is equally or more
- > relevant to many level 10/11 AI courses and honours projects.
- >
- > The exact nature of AILP and CSLP can vary from year to year, but this
- > year's courses are given below as examples, with information taken
- > from course web pages/slides (so always possible I missed something):
- >
- > AILP project goal: implement and test an argumentation system.
- >
- > Required skills/knowledge mentioned and supported in course
- > materials:
- > -version control (git)
- > -reading research papers
- > -devising arguments, burden of proof
- > -extending existing code base
- > -devising a syntax, parsing input
- > -justify design decisions
- > -write report
- >
- > CSLP project goal: implement and test a stochastic simulator for city
- > rubbish collection.
- >
- > Required skills/knowledge mentioned and supported in course
- > materials:
- > -version control (git)
- > -bash scripting
- > -justify design decisions
- > -shortest path/graph traversal algorithms
- > -route planning/scheduling/optimization
- > -parsing input
- > -stochastic simulation
- > -code design, optimization/profiling, unit testing
- > -analysis: gathering/summarizing statistics, plotting/visualization
- > -write a report
- >

> Students interested in argumentation specifically, or those going on
> to take courses/projects in some areas of AI, will benefit from this
> year's AILP. However, I would argue that for many students, including
> those more interested in statistical approaches to AI, the specific
> skills and knowledge covered in this year's CSLP are more useful than
> those in AILP. Planning, stochastic processes, search, and
> optimization are all AI-related topics. The general skills of code
> design, profiling, and testing are useful to all students. Evaluation
> and analysis through gathering statistics, plotting, and visualization
> are also good general skills, but particularly useful for empirical
> evaluation of statistical AI systems.

>

> I would therefore argue that we are denying our AI students a useful
> learning opportunity by not permitting them to choose CSLP.

>

> 3. Possible side effects/resourcing

>

> It seems likely that if AILP students are permitted to take CSLP, the
> enrollment of AILP will drop, and that of CSLP will rise. Current
> enrollment of the LPs is:

>

> AILP has 44

> CSLP has 53

> SELP has 69

>

> Of the 44 students taking AILP, 30 of them are on degrees that require
> it. (We have 31 students on such degrees, I assume the missing person
> has a concession.) CogSci, CS, and MInf students have the option to
> take AILP. This year, the following numbers are registered for AILP:

>

> 9 out of 11 CogSci students

> 4 out of 18 MInf students

> 1 out of 92 CS students

>

> This suggests that who are given the option are likely to opt out of
> AILP. (CogSci students less so, I suspect because they have fewer Inf2
> courses and most don't take Inf2B.)

>

> This will have ramifications for required support of CSLP.

>

> On the other hand, AILP would no longer be required for any students,
> which would give us the opportunity to consider whether AILP needs to
> run in any particular year. (If this is under consideration, we should
> however make sure that that year's CSLP really is appropriate, notify
> the students early, and explain why CSLP is actually a good option for
> them.)

> --AuH2O

> On Fri, Jan 13, 2017 at 2:34 PM, Bjoern Franke <bfranke@inf.ed.ac.uk> wrote:

>> Hi Sharon,

>>

>> Such a small change can be done without BoS approval, just by Convener's

>> action.

>>

>> We can do this at any time.

>>

>> Cheers,

>> Bjoern

>>

>> On 13/01/17 12:11, Sharon Goldwater wrote:

>>>

>>> Hi Bjoern,

>>>

>>> When is the deadline is for dpt changes to affect 2017-18? I had a

>>> small change in mind following yesterday's meeting but not sure if it

>>> needs to go in next week (already running late for proposal) or if Feb

>>> meeting is ok.

>>>

>>> (I want to suggest adding CSLP as an option to all AI degrees. I feel

>>> there are good academic reasons for this, and as a knock-on it means

>>> AILP is not compulsory for anyone. Possibly helpful for resourcing...)

>>>

>>> --AuH2O