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## Teaching Software requirements 2020/21

When this project is complete, the final report will appear at [TeachingSoftware2020Report](#)

As this relates to Ubuntu, see also [RaTPackagesToUbuntu](#)

### Key

<u>field</u>	<u>purpose</u>
Priority	Software installation priority:
	<b>Priority 1</b>
	<b>Priority 1.5</b>
	<b>Priority 2</b>
	<b>Priority 3</b>
	<b>Priority 4 / TBC / <input type="checkbox"/> Complete</b>
Course ID	Course Code
Acronym	Familiar Inf course codes
Semester	Taught in Semester
Lecturer	Course Lecturer
Software	Software required for course
Change/no change/new	Version changes or new software
Status	Upgrade or installation (or not) status
RT	RT ticket relating to request
DB	Yes if Theon updated with changes

### Software Requirements, in order of priority

<u>Priority</u>	<u>Acronym</u>	<u>Sem</u>	<u>Lecturer</u>	<u>Software</u>	<u>Change/no change/new</u>
<b>1</b>	DMP	S1	vvelichk/ayorston	DICE NOT REQUIRED	
<b>1</b>	INF1A	S1	wadler/michael	Haskell ghci 8.10.2 Quickcheck GLUT	Haskell modulefile and needed; cabal needs testing for library installation
<b>1</b>	INF2C-CS	S1	bgrot	gcc, java	
<b>1</b>	INF2-FDS	Year	kgal/sterratt	DICE NOT REQUIRED	
<b>1</b>	INF2-IADS	Year	mcryan/kk/jrl	Python (whatever is the current stable supported version on DICE).	
<b>1.5</b>	ANLP	S1	sgwater	Python 3.6 as installed on DICE with: nltk spyder scikit-learn	
<b>1.5</b>	BIO1	S1	jda/timpson	DICE NOT REQUIRED	
<b>1.5</b>	HCI	S1	kvaneia	DICE NOT REQUIRED	
<b>1.5</b>	IDB	S1	pguaglia/libkin/apieris	A <a href="#">PostgreSQL</a> 11.8 database for each student on the pgteach server, matching psql client version if possible. Various DB admin procedures requested. - psycopg2 Python library, 2.6.1 if possible.	
<b>1.5</b>	ILP	S1	stg/pbj	- Java SE 11. - Maven. (upstream 3.6.3-1) - Eclipse >= 4.10. v4.16 would be fine.	
<b>1.5</b>	MLP	Year	pandrea2/ hbilen/ sramamoo	- Conda - Python3 - Cuda - CudNN	
<b>1.5</b>	MLPR	S1	imurray	The SciPY "stack" fast BLAS	

<b>1.5</b>	PI	S1	soa/jgarfort	DICE NOT REQUIRED
<b>1.5</b>	TTDS	Year	wmagdy/swilso22	- Python - 4G extra quota
<b>2</b>	ADS	S1	jcb/rmayr	DICE NOT REQUIRED
<b>2</b>	BAI-ICDM	S1	doyarzun/timpson	No specific software required.
<b>2</b>	BDL	S1	akiayias/mkohlwei	DICE NOT REQUIRED
<b>2</b>	CDI1	S1	jlee/kvaniea/mwolters	DICE NOT REQUIRED
<b>2</b>	DBBA	S1	vrestocc/rsarkar	DICE NOT REQUIRED
<b>2</b>	IQC	S1	rgarcia/pwallden	Unclear if DICE required Reminder sent 21/08, 28/08
<b>2</b>	IRR	S1	soa/rsarkar	DICE NOT REQUIRED
<b>2</b>	RSS	S1	zli33/mmistry	- python - jupyter=1.0.0 - matplotlib=2.2.3 - numpy=1.15.0 - scipy=1.1.0 - seaborn=0.9.0 - python-graphviz=0.8.4
<b>2</b>	SPT	S1	da/melahi/akiayias	DICE NOT REQUIRED
<b>4</b>	CDI2	S1	jlee/mwolters	DICE NOT REQUIRED
<b>TBC</b>	<a href="#">CiC</a>	Year	judy	DICE NOT REQUIRED
<b>TBC</b>	IAML	S1	omacaod/hshimoda/ckiwi	- Python - Conda - pdflatex behaving differently (see <a href="#">RT:103510</a> )
<b>TBC</b>	IAML-PG	S1	omacaod/hshimoda/ckiwi possibly tma1 too	↑ see IAML Reminder sent 21/08, 04/09
<b>TBC</b>	IPPO	S1	dcspaul	- Java 11 - <a href="#">JavaFX</a> 11 - IntelliJ 2020.2 - SceneBuilder 11 - BlueJ - Gradle (version 6 if possible, 5.6 if not)
<b>TBC</b>	PDIOT	S1	dka, cxb	- git, make - arm embedded toolchain - Thingy52 software - NRF Tools - JLink support

				- anaconda - android studio	
<b>TBC</b>	IVR	S1	skhadem	ROS and Gazebo	
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Priority	Acronym	Sem	Lecturer	Software	Change/no change/new
<b>1</b>	INF1B	S2	fmcneill	SAME AS IPPO	
<b>1</b>	INF1-CG	S2	mhennig/clucas2 /fmollica	DICE NOT REQUIRED	
<b>1</b>	INF2D	S2	alex/cchirita	nothing special possibly planning.domains? !QuickCheck !HUnit HSpec	
<b>1</b>	INF2- SEPP	S2	calexan4/dcspaul /jgarfort	Same as for IPPO: - Java 11 - JavaFX 11 - IntelliJ 2020.2 - SceneBuilder 11 - BlueJ - Gradle (6 or 5.6) Plus additional SEPP specific: - CodeGrade - JUnit5 for IntelliJ - Trac bug tracking, if possible. on a local server - the JaCoCo Java Code Coverage Library for IntelliJ - <a href="#">GitHub</a> /GitHub Classroom but without server support from Informatics	
<b>1</b>	SDP	S2	jgarfort/stonneau/bwebb	webots + python API - ROS - gazebo - blender - git - numpy & scipy - ipython/jupyter	

				- gcc
<b>1</b>	THF	S2	mwolters	DICE NOT REQUIRED
<b>1.5</b>	AGTA	S2	kousha	Reminder sent 21/08, 04/09
<b>1.5</b>	COMN	S2	mhonda/mmarina	Reminder sent 21/08, 04/09
<b>1.5</b>	CS	S2	mkohlwei, marapini, melahi	Based on 2019 requests: - python3 - pycrypto
<b>1.5</b>	DME	S2	mgutmann/srenals	Up-to-date packages for the Python Scientific Stack, including: - numpy - scipy - jupyter notebooks - pandas - scikit-learn - matplotlib - seaborn
<b>1.5</b>	NLU+	S2	keller	python3.6+ conda nltk scikit-learn pytorch numpy scipy tqdm matplotlib
<b>1.5</b>	OS	S2	abarbala	QEMU (x86)
<b>1.5</b>	RL	S2	salbrec2	Latest available versions of: -pytorch -numpy -matplotlib -gym[atari] -gym[box2d] -tqdm -pytest

1.5	ST	S2	arajan	<ul style="list-style-type: none"> <li>- Eclipse IDE for Java (latest version (4.16) but 4.12 is OK) supporting JUnit 4 and JUnit 5</li> <li>- <a href="#">EclEmma</a> - Java code coverage tool within Eclipse</li> <li>- Randoop - Automated JUnit 4 test generation tool Instructions to download and run Randoop can be found here: <a href="https://randoop.github.io/randoop/manual/index.html">https://randoop.github.io/randoop/manual/index.html</a></li> <li>- Java Development Kit (JDK) 8</li> </ul>
2	AR	S2	jdf	<ul style="list-style-type: none"> <li>- Isabelle2020 with HOL Heap prebuilt</li> </ul>
2	ADBS	S2	mnikolic/apieris	<ul style="list-style-type: none"> <li>- gcc</li> <li>- Java</li> <li>- <a href="#">PostgreSQL</a></li> </ul>
2	ASR	S2	pbell1	<p>Kaldi and OpenFst (TA distributes local build but build-deps required).</p> <ul style="list-style-type: none"> <li>- python-openfst (nice to have)</li> <li>- pip</li> <li>- Jupyter</li> </ul>
2	IMC	S2	vvelichk	DICE NOT REQUIRED
2	<a href="#">IoTSSC</a>	S2	ppatras	DICE NOT REQUIRED
2	IPP	S2	soa/aconsta2	DICE NOT REQUIRED
2	PA	S2	vnagaraj	Reminder sent 21/08, 04/09
3	CCN	S2	achadwic/pseries	DICE NOT REQUIRED
4	BAI-GP	S2	doyarzun/tsimpson	No specific software required.
4	NLP-IP	S2	keller	DICE NOT REQUIRED

<b>4</b>	BAI-IP	Block 5 (Sem 2)+	doyarzun	No specific software required.
<b>TBC</b>	IAML-PG2	S2	tma1/hshimoda	↑ see IAML
<b>TBC</b>	IVC	S2	lsevilla	- matlab - python - pytorch
<b>TBC</b>	DISS	Block 5 (Sem 2)+	rmayr	Nothing specific required, but submit requested
<b>TBC</b>	MDI	Flexible	mwolters	Run by Informatics, no specific requirements, but submit requested.
TBC	MIP1	Flexible	currently unallocated	Unclear if there is a MIP1
TBC	MIP2	Flexible	currently unallocated	Unclear if there is a MIP2
TBC	PROJ	Full Year	currently unallocated	Unclear if this is a course
<b>TBC</b>	WBPPCS	Block 5 (Sem 2)+	ayorston	DICE NOT REQUIRED

## Teaching Software requirements 2020/21 (prior to 20th July 2020, this may be deprecated)

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Course	Semester	Lecturer	Software	Change/no change/new	SL7 Status	RT	A o U
<b>CCS</b>	N/A	clucas2	R, latest ( <a href="https://cran.r-project.org/">https://cran.r-project.org/</a> ) RStudio, latest ( <a href="https://rstudio.com/">https://rstudio.com/</a> ) RStan, latest ( <a href="https://cran.r-project.org/web/packages/rstan/index.html">https://cran.r-project.org/web/packages/rstan/index.html</a> ) Matlab, latest Pandoc, latest	No Change	This course is not being delivered in 2020/21	<a href="#">RT:100540</a>	 M
<b>PM-DL</b>	N/A	jeh	Matlab and Eclipse (not the modelling edition).	No change	This course is not being delivered in 2020/21	<a href="#">RT:100543</a>	U E 4.
<b>IPPO</b>	S1	dcspaul	- Java - <a href="#">Intellij</a> - <a href="#">SceneBuilder</a> - Gradle	Upgrade all to latest	Upgrades needed	<a href="#">RT:100621</a> Also see merged IPPO / <a href="#">INF1B</a> <a href="#">RT:103049</a>	YI
<b>ANLP</b>	S1	sgwater	Python 3.6 as installed on DICE with nltk spyder scikit-learn	No Changes	Version checks required	<a href="#">RT:101456</a>	YI

-- [RichardBell](#) - 26 Feb 2020

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