

## Intitulé du cours

Course title – Intitulé du cours	R Programming
Level / Semester – Niveau /semestre	M1 S1
School – Composante	Ecole d'Economie de Toulouse
Teacher – Enseignant responsable	Kevin Godin-Dubois (CM/TP)
Other teacher(s) – Autre(s) enseignant(s)	Johanna Joy Isman
Other teacher(s) – Autre(s) enseignant(s)	Gokce Gokkoca
Other teacher(s) – Autre(s) enseignant(s)	/
Other teacher(s) – Autre(s) enseignant(s)	/
Other teacher(s) – Autre(s) enseignant(s)	/
Lecture Hours – Volume Horaire CM	15
TA Hours – Volume horaire TD	/
TP Hours – Volume horaire TP	7.5
Course Language – Langue du cours	English
TA and/or TP Language – Langue des TD et/ou TP	English/French (if french-only group)

### Teaching staff contacts – Coordonnées de l'équipe pédagogique :

kevin.dubois@irit.fr

### Course Objectives – Objectifs du cours :

Learning a programming language and its application to statistical analysis

### Prerequisites – Pré requis :

none

### Practical information about the sessions – Modalités pratiques de gestion du cours :

Students are encouraged, whenever possible, to bring their own machines to the sessions (CM & TP). This helps make theoretical sessions less monolithic and ensures that TP can be easily reviewed at home.

### Grading system – Modalités d'évaluation :

One mid-term online (moodle) quizz

One or two take home exams

### Bibliography/references – Bibliographie/références :

R pour les débutants – Emmanuel Paradis (in french)

W.N. Venables et al., An introduction to R, <http://www.r-project.org>

K. Kleinman and N.J. Horton, SAS and R, Data Management, Statistical Analysis and Graphics, Chapman and Hall

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**Session planning - Planification des séances :**

One CM every week and one TP about one every other week

**Distance learning - Enseignement à distance :**

If need be, distance learning might be implemented via online classes (CM) and interactive virtual classrooms (TP)