



**Università  
degli Studi  
di Ferrara**

**IUSS**  
Istituto Universitario  
di Studi Superiori  
IUSS-Ferrara 1391

Università degli Studi di Ferrara  
Ufficio IUSS  
Corso Porta Mare, 2 • 44121 Ferrara  
[dottorato@unife.it](mailto:dottorato@unife.it)



## COMPLEMENTARY SKILLS 2018

### ” Computer technology for Ph.D. Students”

#### Teachers

Dott. Riccardo Zese

Prof. Guido Sciavicco

Dott.ssa Brunella Muttillo

Dott.ssa Francesca Tassi

#### Period

November 2018

January 2019

The course aims to give Ph.D. students a view of most used software in different disciplinary areas. It consists of two parts: one with basic notions for all Ph.D. students and one for each disciplinary area.

The Course is organized in collaboration with Prof. Massimiliano Mella and Fabrizio Riguzzi – Department of Mathematics, University of Ferrara.

**Students who will attend at least 70% of the course (basic course + own disciplinary course) will be assigned 5 credits.**

**All those interested in participating are kindly requested to send an e-mail to [dottorato@unife.it](mailto:dottorato@unife.it) within October 26, 2018** with their name, family name, doctorate course and cycle.



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## BASIC GOALS

***Dott. Riccardo ZESE***

**Recipients:** All Unife Ph.D. Students

Computer tools for research projects

- ✓ Work environment and best operating systems for research projects
- ✓ VPN use under Linux
- ✓ Basic tools for scientific publication editing (Latex)
- ✓ Matlab
- ✓ Tools for scientific data-bases
- ✓ Basic methods for collaboration, sharing and editing in a research environment
- ✓ Methods and goals of the research publication process
- ✓ Evaluation quality index, specifically for the Italian evaluation system

The course also includes a hands-on session  
It is recommended to bring your own laptop

## CALENDAR

**Aula D5 – Nuovi Istituti Biologici**

***Via Luigi Borsari, 46***

DATE		FROM-TO	HOURS
Monday	November 5, 2018	14:00-18:00	4
Tuesday	November 6, 2018	14:00-18:00	4
Wednesday	November 7, 2018	14:00-16:00	2
<b>Total no. of hours</b>			<b>10</b>



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## **GOALS FOR SCITEC AREA**

***Prof. Guido SCIAVICCO***

**Recipients:** Ph.D. Students in Engineering, Architecture and Urban Planning, Earth and Marine Sciences, Physics, Mathematics

Fundamentals of Data Analysis: theory and applications

- ✓ Elements of Statistics
- ✓ Data mining
- ✓ Machine learning
- ✓ Tools

The course also includes a hands-on session  
It is recommended to bring your own laptop

### **CALENDAR**

**Aula 3 – Cattedrale – Polo Scientifico Tecnologico**

**[Via Saragat, 1](#)**

<b>DATE</b>		<b>FROM-TO</b>	<b>HOURS</b>
Monday	November 19, 2018	08:30-11:00	2,5
Tuesday	November 20, 2018	08:30-11:00	2,5
Wednesday	November 21, 2018	08:30-11:00	2,5
Friday	November 23, 2018	08:30-11:00	2,5
<b>Total no. of hours</b>			<b>10</b>



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## **GOALS FOR SUS AREA**

***Dott.ssa Brunella MUTTILLO***

**Recipients:** Ph.D. Students in Humanities, European Union Law and National Legal Systems, Economics and Management of Innovation and Sustainability

- ✓ Computer cataloging and archives
- ✓ Scientific publication
- ✓ European Union Data-bases

## **CALENDAR**

**AULA E 1 – Palazzo Turchi di Bagno**

***Corso Ercole d'Este, 32***

<b>DATE</b>		<b>FROM-TO</b>	<b>HOURS</b>
Thursday	November 8, 2018	09:00-11:00	2
Friday	November 9, 2018	09:00-11:00	2
Monday	November 12, 2018	09:00-11:00	2
<b>Total no. of hours</b>			<b>6</b>



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## **GOALS FOR SVISA AREA**

***Dott.ssa Francesca Tassi***

**Recipients:** Ph. D. Students in Biomedical and Biotechnological Sciences, Molecular Medicine and Pharmacology, Chemistry, Evolutionary Biology and Ecology, Translational Neurosciences and Neutotechnologies

Detailed study of most widespread computer systems and dedicated data-bases

- ✓ Biomolecular data-bases and biological/scientific software
- ✓ Currently available Data-base for different Research Doctorates

## **CALENDAR**

**Aula F10 – Chiostro di Santa Maria delle Grazie  
Primo piano**

***Via Fossato di Mortara 17/19***

<b>DATE</b>		<b>FROM-TO</b>	<b>HOURS</b>
Monday	January 14th, 2019	13:00 – 17:00	4
Tuesday	January 15th, 2019	13:00 – 17:00	4
<b>Total n. of hours</b>			<b>8</b>