



Academic Year 22-23	CFGS ASIX/DAM/DAW
M01: Introduction to operating systems	

## **SCHEDULE M01: INTRODUCTION TO OPERATING SYSTEMS**

### **1- TEACHERS:**

**TU1: J. Binefa and D. Collados (ASIX/DAM/DAW)**

Operating system: Linux

Language: English

**TU2: J. Contreras (ASIX/DAM/DAW)**

Operating system: Microsoft Windows

Language: Catalan

**TU3: J. Binefa and Daniel Collados (ASIX/DAM/DAW)**

Operating system: Linux

Language: Catalan and English

**TU4: R. Catrisse (2nd academic year) (ASIX)**

Operating system: Linux / Windows

Language: Catalan

## 2- CONTENTS:

TU1	M	Installing, configuring and exploiting a computer system
PR1	x	Virtual Machines. VirtualBox/VMWARE. Installing Debian Linux
PR2	x	Basic command-line utilities. The linux directory tree.
PR3	x	Network configuration
PR4	x	Partitions and filesystems. GParted.
PR5	x	Permissions and ownership of folders and files. setuid. sudo
PR6	x	Managing processes
PR7	x	Managing services
PR8	x	Managing groups and users
PR9	x	Containers. Docker.
E1	x	Exam 1
E2	x	Exam 2
TU2	M	Managing Information and resources on a network
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TU3	M	Installing specific purpose software
PR1	x	Building packages to install applications on Linux
PR2	x	Using bash scripts to install applications on Linux
PR3	x	Advanced bash script to install applications on Linux
E1	x	Assessment activities and exams
TU4	33h	Security, performance and resources (2n academic year)
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### 3- SUBJECT ASSESSMENT:

$Q_{MP01} = 0,3 Q_{UF1} + 0,4 Q_{UF2} + 0,1 Q_{UF3} + 0,2 Q_{UF4} \text{ (ASIX)}$ $Q_{MP01} = 0,39 Q_{UF1} + 0,5 Q_{UF2} + 0,11 Q_{UF3} \text{ (DAW/DAM)}$
<ul style="list-style-type: none"> <li>▪ This subject will be done in two years (ASIX) or one year (DAW/DAM)</li> <li>▪ To pass this subject you should pass all training units.</li> <li>▪ In June there are extraordinary exams for those training units failed.</li> <li>▪ Training units will not be assessed if the student exceeds 20% of absences.</li> <li>▪ The criteria of this college about absences and unpunctuality is given in the student information guide.</li> <li>▪ Students have two opportunities to pass a training unit. A student pass a training unit if he/she gets a mark equal or greater than 5 points.</li> </ul>

$Q_{UF1} = 0.5 * \text{Practical Exercises} + 0.5 * \text{Exams}$
<ul style="list-style-type: none"> <li>▪ This subject will be done during the first academic year.</li> <li>▪ It is mandatory to do all the practical exercises and take all the exams to pass the training unit.</li> <li>▪ In June (2nd opportunity), students that have not passed the training unit have to deliver the mandatory practical exercises made during the academic year and/or take a resitting exam.</li> </ul>

$Q_{UF3} = 0.2 * \text{Practical Exercises} + 0.8 * \text{Exams}$
<ul style="list-style-type: none"> <li>▪ This subject will be done during the first academic year.</li> <li>▪ You should do all the practical exercises to pass the training unit. It's mandatory to take all the exams to pass the training unit.</li> <li>▪ In June (2nd opportunity), students that have not passed the training unit have to deliver the mandatory practical exercises made during the academic year and/or take a resitting exam.</li> </ul>



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**4- TIMETABLE:**

TRAINING UNIT	ASIX	DAW DAM	ACADEMIC YEAR	STARTING DATE	ENDING DATE	TERM		
						1st	2nd	3rd
TU1	x	x	1st	12/09/22	24/03/23	x	X	X
TU2	x	x	1st	12/09/22	26/05/23	X	X	X
TU3	x	x	1st	27/03/23	26/05/23			X
TU4	x	---	2nd	2022	2023	--	---	---