

## 230042 - TCGI - Internet Transport, Control and Management

Coordinating unit: 230 - ETSETB - Barcelona School of Telecommunications Engineering  
 Teaching unit: 744 - ENTEL - Department of Telematics Engineering  
 Academic year: 2013  
 ECTS credits: 4,5 Teaching languages: Catalan

### Teaching staff

Coordinator: -

Others:

### Degree competences to which the subject contributes

Generical:

1. EFFECTIVE USE OF INFORMATION RESOURCES - Level 2. Designing and executing a good strategy for advanced searches using specialized information resources, once the various parts of an academic document have been identified and bibliographical references provided. Choosing suitable information based on its relevance and quality.
2. SELF-DIRECTED LEARNING - Level 2: Completing set tasks based on the guidelines set by lecturers. Devoting the time needed to complete each task, including personal contributions and expanding on the recommended information sources.

### Learning objectives of the subject

### Study load

Total learning time: 112h 30m	Theory classes:	32h 30m	28.89%
	Practical classes:	0h	0.00%
	Laboratory classes:	13h	11.56%
	Guided study:	2h	1.78%
	Self study:	65h	57.78%

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### Content

(ENG) Tema 1. Encaminament.	Learning time: 27h 50m Theory classes: 8h Laboratory classes: 4h Self study : 15h 50m
(ENG) Tema 2. Qualitat de servei en xarxes telemàtiques (QoS).	Learning time: 29h 10m Theory classes: 10h 30m Laboratory classes: 2h Self study : 16h 40m
(ENG) Tema 3. Transport de fluxos de dades.	Learning time: 26h 30m Theory classes: 9h 30m Laboratory classes: 2h Self study : 15h
(ENG) Tema 4. Control de les sessions.	Learning time: 15h 40m Theory classes: 3h Laboratory classes: 2h Guided activities: 1h 30m Self study : 9h 10m
(ENG) Tema 5. Gestió de xarxa.	Learning time: 10h 20m Theory classes: 2h Laboratory classes: 2h Self study : 6h 20m

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### Planning of activities

(ENG) Proves de resposta curta (Control)

(ENG) Pràctica de laboratori

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(ENG) Pràctica de laboratori

(ENG) Pràctica de laboratori

(ENG) Proves de resposta llarga (Examen Final)

### Bibliography

#### Basic:

Jha, S.; Hassan, M. Engineering Internet QoS. Boston; London: Artech House, 2002. ISBN 1580533418.

Duato, J.; Yalamanchili, S.; Ni, L. Interconnection networks: an engineering approach. Revised printing. San Francisco: Morgan Kaufmann Publishers, 2003. ISBN 1558608524.

Perkins, C. RTP: audio and video for the Internet. Boston [etc.]: Addison-Wesley, 2003. ISBN 0672322498.

Camarillo, G. SIP Demystified. New York [etc.]: McGraw-Hill, 2002. ISBN 0071373403.

#### Complementary:

Shin, J.; Lee, D.C.; Kuo, C.C.J. Quality of service for Internet multimedia. Upper Saddle River, NJ: Prentice Hall, 2004. ISBN 0131414631.