Computer science

SEMESTER 5 (200h)
- Algorithms
- Introduction to software engineering
- Project
- Illustration of operating system: Unix
- Data bases
- Scientific English

SEMESTER 6 (200h)
- Object programming
- UML
- C++ programming
- Java programming
- Synchronizing tool
- Distributed systems
- English for specific purposes
- Project management, participative process
- Internship

Electronics and energy systems

SEMESTER 5 (200h)
- Electrotechnics
- Automated systems
- Power electronics : DC-DC conversion
- Fundamentals in electronic circuits
- Basic functions of electronic systems
- Practical works and CAD in electronics I : analogue and digital circuits
- Scientific English

SEMESTER 6 (200h)
- Flow and Resource Management
- Sensors
- Data acquisition
- Production, transportation and distribution of electrical energy
- Energetic system sizing
- Project in electronics
- English for specific purposes
- Project management, participative process
- Internship

Mechanics and system design

SEMESTER 5 (200h)
- Electrotechnics
- Automated systems
- Material science
- Mechanical construction
- Scientific English

SEMESTER 6 (200h)
- Flow and Resource Management
- Sensors
- Data acquisition
- Fluid mechanics
- Project in mechanical construction
- Specifications
- English for specific purposes
- Project management, participative process
- Internship

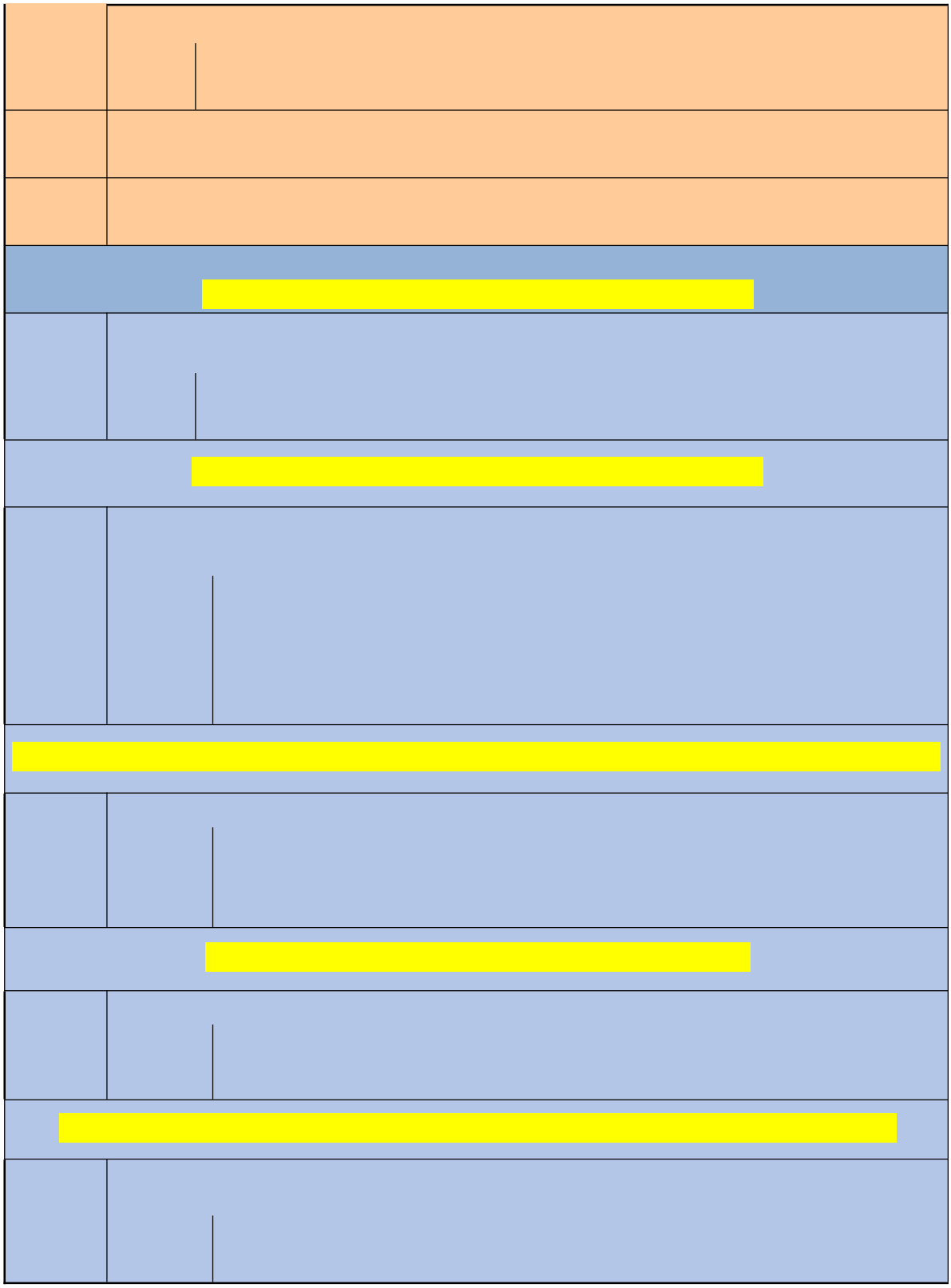
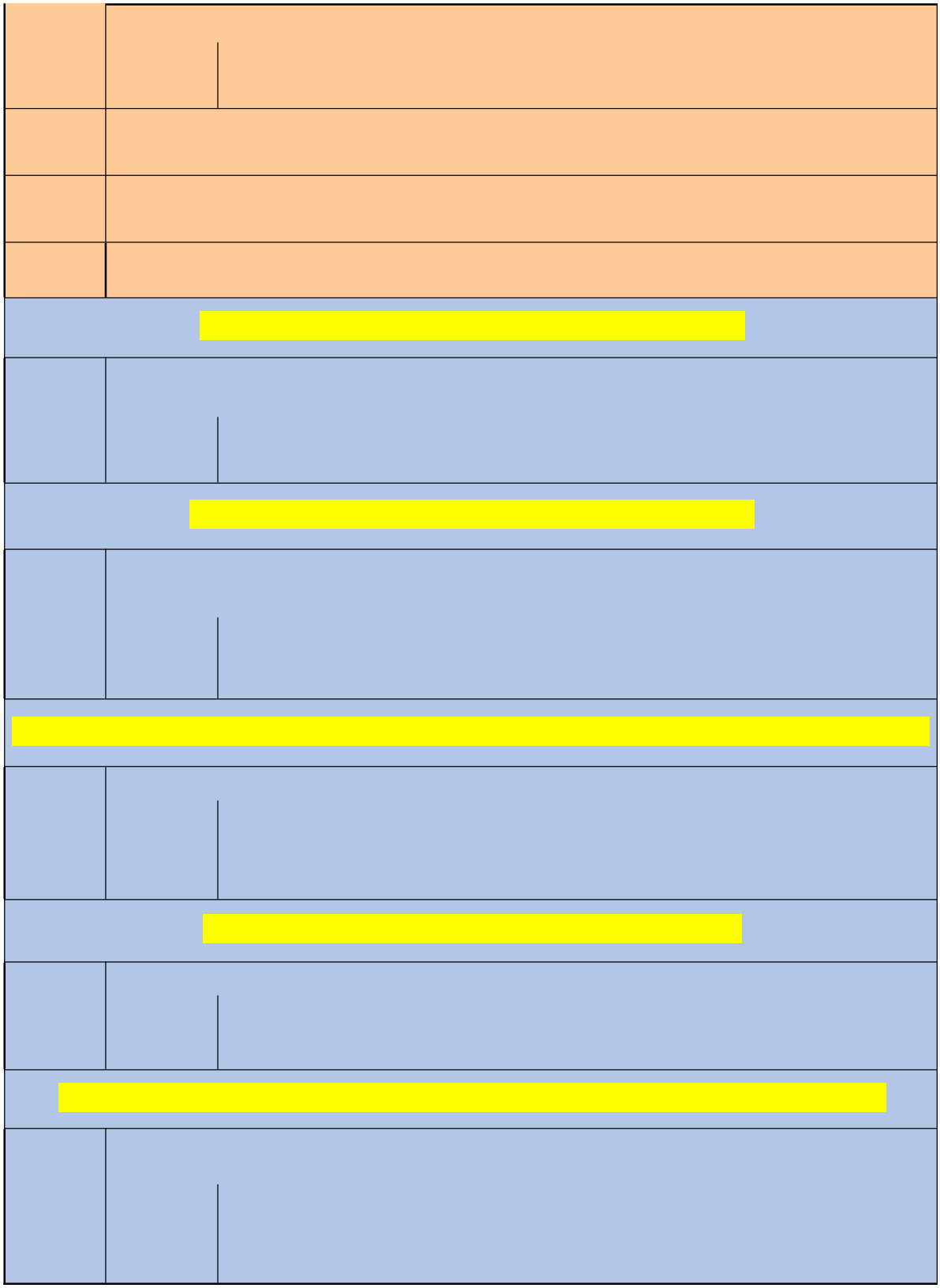
Urban and territorial planning and environment

SEMESTER 5 (200h)
- Ecology
- Environment laws
- Sociology
- Economics
- Theory of planning and urban design
- Drawing and spatial representation
- Scientific English

SEMESTER 6 (200h)
- Earth Sciences
- Hydrology
- Environmental evaluation
- Urban planning Laws
- Urban design
- Planning and project
- English for specific purposes
- Project management, participative process
- Internship

Each specialty curriculum is completed with a curriculum in French as a second language :

SEMESTER 5 (200h)
- FSL
- Grammar
- Speaking workshop
- Writing workshop
- Geography
- History
- Life in France
- Institutions
- Current affairs
- Business French
- Drama

intercultural issues
Methodology
Cultural activities

SEMESTER 6 (200h)
- FSL
- Grammar
- Speaking workshop
- Writing workshop
- Preparing for the TCF