Master Nanosciences et nanotechnologies
History and outlooks of nanoelectronics

Responsable	Descriptions	Informations
Fabienne MICHELINI fabienne.michelini@univ-amu.fr	Code : S58PH1M14 Nature : Domaines : Sciences et Technologies	Composante : Faculté des Sciences Nombre de crédits :

LANGUE(S) D'ENSEIGNEMENT

Anglais

CONTENU

History of the transistor
Transistor effect
Technological evolution of the transistor from its creation to the present day
Transistor base circuits (SRAM memory, D flip-flop, shifting register)

Teaching titles:

1. The transistor: a technological ré
2. Introduction to components : Functionality and the presence of the nanoscale in components today
3. Transistor-based circuits
4. Complements Semiconductor physics

MODALITÉS D'ORGANISATION

The TD will allow an application of the teachings given during the lectures.

The practical sessions will aim to put into practice the knowledge acquired in lectures and practical sessions by using two approaches: simulation and experimental measurement.

The practical sessions will be held in the morning and evening.

VOLUME HORAIRE

- Volume total: 30 heures
- Cours magistraux: 12 heures
- Travaux dirigés: 6 heures
- Travaux pratiques: 12 heures

CODES APOGÉE

- SNNAU33J [ELP]

M3C

Aucune donnée M3C trouvée

POUR PLUS D'INFORMATIONS

Aller sur le site de l'offre de formation...

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