

SYLLABUS

Name of course : Commande des systèmes linéaires (CSL)

Domain: **Science and Technology** Field: **Automatique**

Speciality: **Automatique**

Semester: **5**

Academic Year: **2025-2026**

Title : TD Commande des systèmes linéaires

Teaching unit: Methodological UE 3.1.1

Number of Credits: 4 Coefficient: 2

Course (number of hours per week) : 1h30

- TD (number of hours per week) : 1h30
- TP (number of hours per week) : 1h30

Responsible of course

Name, First name, Rank: **Dr. Mohamed Ilyas RAHAL , MCB**

Office Location (Block, Office): **Department of Electronics, Office 18**

E-mail : dr.ilyas.rahall@gmail.com

Schedule and location of the course :

Wednesday: 9h45-11h15–Audit 3

Description of the course

Teaching objectives:

This module consolidates the knowledge acquired in the second year and enables mastery of the representation of dynamic systems and their properties in the state space, as well as the acquisition of the main methods for analysis and synthesis of control systems.

Recommended prior knowledge:

Basic mathematics. Continuous and sampled linear systems.

Course content

Chapter 1. Controller Calculation in the Frequency Domain

Chapter 2. State-Space Representation of Systems

Chapter 3. System Analysis in State-Space

Chapter 4. State Feedback Control

Chapter 5. Synthesis of State Observers

Evaluation methods

Nature of the control	Weighting in %
End of semester exam	60%
Micro – interrogation	40%
TD	
TP	
Reports or on-site assessments for each session	
Group work	
Field trips	
Preparation and participation	
Other (Attendance/absence)	
Total	100%

Bibliographic references

Textbook (Référence principale) :		
Book title	Author	Publisher and year of publication
Commande des systèmes linéaires	Philippe de Larminat	Hermès Lavoisier, 1996.
Asservissement linéaire échantillonnés et représentation d'état	Hubert Egon	Méthodes, 2001
Les références de soutien si elles existent :		
Titre de l'ouvrage (1)	Auteur	Éditeur et année d'édition
Automatique	Yves Granjan	Dunod, paris, 2001



N°	Student's First and Last Name	Signature
	ZEKRI SALAH	
	Hazouli Mohammed Amine	
	Djoudi Mustafa	
	Kerrouaj Ahmed	
	Bouhroueb Youssef	
	Yahyaoui Med Mamatz	
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	Laculi Taki Eddine	
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	Nouri Lotfi	
	Zorzi Djoumana Soudi	
	Baali Soundous	
	Cherait Serine Bayen	
	Boussetoun Boka Eddine	
	Boukhrouja Med Fochdi	
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	DJEBBAR Abdessrahmane	
	Bouacume Nouhane	
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	Brahimi Yissine	
	Heraghi M. Anis	
	Djeflir Mohamed Amine	
	RAHMANI Rami	

Bouender Mohammed	Abouder
Kouider Mohamed Yazid	Y
Abdeslam Youcef	4
Guennia Yakin	Y
Cherifi Mounad	Y
M. Hachem Achref	4
Belabed Tahar	B
Arabi Abir	A
BOUDJELAYA	B
Selmaoui Roumaysa	S
Djaballah Narimane	N
Chent Syoum	S