

# CoE 4TL4: Digital Signal Processing

## Course Description

- [Course outline](#)

## Assessment

1. **Labs- 20% (each 5%) ITB157** Work in pairs and submit one report per pair. Submit in the CoE4TL4 slot in the ITB copy room

Late submission penalty =10% per day.

### Lab time:

- L01: Monday, 14:30-17:20, every other week starting from Sept. 23
- L03: Tuesday, 14:30-17:20, every other week starting from Sept. 24
- L05: Thursday, 14:30-17:20, every other week starting from Sept. 26
- L02: Monday, 14:30-17:20, every other week starting from Sept. 30
- L04: Tuesday, 14:30-17:20, every other week starting from Oct. 1
- L06: Thursday, 14:30-17:20, every other week starting from Oct. 3

[Lab 1](#)    [Mark of Lab 1](#)

[Lab 2](#)    [Mark of Lab 2](#)

[Lab 3](#)    [Mark of Lab 3](#)

[Lab 4](#)    [Mark of Lab 4](#)

2. **Tutorial: Monday, 1:30pm-2:20pm, Starting on Sept. 16, ITB137**

[Practice Problem 1](#)

[Solution of Practice Problem 1](#)

[Practice Problem 2](#)

[Solution of Practice Problem 2](#)

3. **Midterm - 30% Friday, 7pm-9pm, Nov. 8, MCMST CDN\_MARTYRS**

[Test Sample](#)

[Mark of Midterm](#)

[Midterm Exam & Solution](#)

#### 4. Final Exam - 50%

[Test Sample](#)

[Final Exam Review](#)

### Lecture Notes

Lecture time and place: **Mon, Wen 11:30am-12:20pm and Fri 1:30pm-2:20pm, BSB135**

- [Course note](#)
- [Additional note](#)

### Textbook

- A.V. Oppenheim and R. W. Schaffer, *Discrete-Time Signal Processing* (Edition 2 or 3), Prentice-Hall, ISBN 0-13-754920-2.

### Reference Books and Notes

- Sanjit K. Mitra, *Digital Signal Processing*, McGraw- Hill.
- John G. Proakis and Dimitris G. Manolakis, *Digital Signal Processing*, Pearson Prentice Hall, 4<sup>th</sup> ed, 2007, ISBN 0-13-187374-1.

### Office Hours

- Friday, 3pm-5pm, Room: ITB A220, ext. 27599

### Teaching Assistants:

- Jianfeng Hu, [huj19@mcmaster.ca](mailto:huj19@mcmaster.ca), ITB/A202, ext. 23151

#### **Lab 1 TA**

**Office Hours: Wednesday, 2pm-4pm.**

- Mehrshad Kafi, [kafim1@mcmaster.ca](mailto:kafim1@mcmaster.ca), ITB/A103.ext. 26112

#### **Lab 3 TA**

**Office Hours: Wednesday, 2pm-4pm.**

- Sahand Sephrevand, [sepehrvs@mcmaster.ca](mailto:sepehrvs@mcmaster.ca), ITB/A204, ext. 24087

#### **Tutorial TA**

**Office Hours: Wednesday, 2pm-4pm.**

- Mehrnoosh Heidarpour, [heidarpm@mcmaster.ca](mailto:heidarpm@mcmaster.ca), ITB/A202, ext. 23151

**Lab 2 TA**

**Office Hours: Wednesday, 2pm-4pm.**

- Runchen Liang, [liangr19@mcmaster.ca](mailto:liangr19@mcmaster.ca), ITB/A204, ext. 24087

**Lab 4 TA**

**Office Hours: Wednesday, 2pm-4pm.**