

Fundamentals of Signal Processing, 2023-2024

Procedure for “Peer-to-peer learning/assessment” (P2P L/A)

-The Instructor of each PL class (“Turma”, in Portuguese), organizes groups of 4 Students that will remain valid throughout the semester.

-The order of each Student in the group will also remain valid throughout the semester, especially in the context of PL classes where the P2P L/A takes place. For example, group 1 will be identified as G1, and Student 2 will be identified as E2. Thus, G1E2 means Student 2 of group 1.

-In PL classes of selected weeks, two students are supposed to prepare the explanation (possibly including Matlab code) of two problems (to be released on the Moodle platform), one for each Student. The PDF that is entitled “Planning of Lectures/PL classes” and that is available on the Moodle platform details all the weeks where distributed assessment takes place, namely P2P L/A.

-On a selected week, the order of each Student determines if he/she should explain P2P Problem 1, or P2P Problem 2. That information is available on the following illustrative table, which will be used for peer-to-peer assessment. For example, it says that on the week of 26 September, G6E1 (appearing on a row) should explain P2P Problem 1, and G6E2 should explain P2P Problem 2. It also says that on the week of 10 October, G6E3 should explain P2P Problem 1 of that week, and G6E4 should explain P2P Problem 2 of that week. This scheme repeats in subsequent weeks.

				G6E1	G6E2	G6E3	G6E4	subtotal	# peers
G6	estudante A	week26SEP	G6E1		4	4	F	4.00	2
	estudante B		G6E2	3		3	F	3.00	2
	estudante C	week10OCT	G6E3	5	5		5	5.00	3
	estudante D		G6E4	3	3	3		3.00	3

-In the case of groups having only 3 Students, all cells concerning the non-existing group member should be left empty as the following case illustrates.

				G5E1	G5E2	G5E3	G5E4	subtotal	# peers
G5	estudante A	week26SEP	G5E1		5	5		5.00	2
	estudante B		G5E2	3		3		3.00	2
	estudante C	week10OCT	G5E3	4	4			4.00	2
			G5E4						0

-Each Student has a maximum of 15 minutes to explain the problem that is assigned to him/her, and to answer questions (asked by his/her peers, i.e. by other Students in the group, or by the Instructor) concerning that problem. **NOTE:** this means that Students should arrive as early as possible in the PL class.

-At the end of an explanation by a Student, and based on the realization objectives specified in the problem statement for each P2P problem, the remaining three Students in the group will assign (collectively, after Students discuss and harmonize their evaluations) a score reflecting the

assessment of the explanation performance. That score is a number on the zero-to-five scale and it should match the reference meaning that is detailed at the end of this document. In exercising his/her assessment, each Student should not only adhere to the reference meaning of the different scores in the scale, but should also act in an **honest, responsible, and respectful** way.

If a Student who is a presenter misses the PL class, his/her peers should insert a "0" on the cells where he/she receives his/her scores.

NEW: If the Student who misses the class is a presenter, the remaining Students in the group should use the available time to discuss among themselves ways to tackle/solve the problem that has not been presented.

If a Student (who is *not* a presenter) misses the PL class, his/her peers should insert an "F" on the cells where he/she was supposed to enter his/her scores. For example, in the above illustration, Student G6E4 did not attend the class of 26 September.

In each PL class, the Instructor will provide indications on how the P2P scores will be collected before the LAB part of each PL class starts. In particular, as further specified by the Instructor, the materials (e.g., PDF/PPT/Matlab files) that have been used by the presenter must also be shown to Instructor, or may be collected by the Instructor (depending on specific instructions on this) in order to validate the P2P assessment scores. The absence of justification implies a reduction in the scores, to be decided by the Instructor.

Please note that upon judgement by the Instructor, inflated scores will not only adjusted but also the peers who assign the inflated (or negligent) score will be penalized.

P2P Grading scale: minimum is 0 (zero) and maximum is 5 (five).

You should select a number (0, 1, 2, 3, 4, 5) that best reflects your judgement according to the meaning of the following reference (or anchor) levels in the scale:

- 5** → Exercise **was extremely well prepared/explained**
- 4** → Exercise **was prepared/explained** but **not** in a **complete** way
- 3** → Exercise **was prepared/explained**, but **not** in a **correct** way
- 2** → Exercise was **partially prepared** and/or **partially explained**
- 1** → Only a **basic preparation** was shown
- 0** → Exercise was **not prepared**

Please act with honesty, responsibility, and respect when using this scale: a level below 4 means that performance was unsatisfactory to a significant extent, a level equal to 4 means good performance but not perfect, level 5 means that the performance has been quite convincing.