

## DD2424: Evaluation form for group project

Project title: \_\_\_\_\_

Name student 1: \_\_\_\_\_

Name student 2: \_\_\_\_\_

Name student 3: \_\_\_\_\_

Grader's name: \_\_\_\_\_

### Evaluation of the written report

1. Overall readability of the report: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
2. Overall presentation of technical detail: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
3. Presentation of problem formulation: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
4. Presentation of proposed approach: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
5. Quality of prior work section: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
6. Quality & relevance of experiments: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
7. Conclusions and discussion: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
8. Quality of execution of idea: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
9. Ambition level of project: ☐ Very high ☐ High ☐ Fine ☐ Low
10. Basic premise of project - how interesting: ☐ Very ☐ Quite ☐ Fine ☐ Low
11. Novelty of project: ☐ Very high ☐ High ☐ Fine ☐ Low
12. Proper citations: ☐ Fine ☐ Insufficient

### Evaluation of oral presentation & questioning

1. Clarity of the presentation: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
2. Quality of the presentation: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
3. Answers to implementation questions: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
4. Answers to background theory questions: ☐ Excellent ☐ Good ☐ Fine ☐ Poor
5. Student 1 performance: ☐ Bonus ☐ Default ☐ Weak
6. Student 2 performance: ☐ Bonus ☐ Default ☐ Weak
7. Student 3 performance: ☐ Bonus ☐ Default ☐ Weak

# 1 Transform evaluations to grade

Each criterion,  $R_i$ , has a corresponding maximum score  $S_{R_i}$ . This score is multiplied by the numeric conversion,  $P_{R_i}$ , of its evaluation. The points awarded for most questions,  $R_i$ , are computed as:

$$S_{R_i} \times P_{R_i}$$

Table 1: The maximum scores for each criterion examined for the written report and the oral presentation and examination.

Criterion	Max score ( $S_{R_i}$ )	Criterion	Max score ( $S_{O_i}$ )
$R_1$	5	$O_1$	10
$R_2$	5	$O_2$	10
$R_3$	5	$O_3$	10
$R_4$	5	$O_4$	10
$R_5$	5	$O_{5,6,7}$	-
$R_6$	10		
$R_7$	3		
$R_8$	12		
$R_9$	-		
$R_{10}$	5		
$R_{11}$	5		
$R_{12}$	3		

Max scores for the written report criteria

Max scores for the oral examination criteria

Tables 1, 2 and 3 give an overview of the maximum scores for each grading criteria and how the evaluations of these criteria are converted into probabilities.

Table 2: The conversion of evaluation of the criteria for the written report into percentages. For the leftmost table  $1 \leq i \leq 8$ .

Eval	$P_{R_i}$	Eval	$P_{R_9}$	Eval	$P_{R_{10}}$	Eval	$P_{R_{11}}$	Eval	$P_{R_{12}}$
Excellent	1	Very high	1.2	Very	1.2	Very high	1.2	Fine	0
Good	.8	High	1.1	Quite	1.1	High	1.1	Insufficient	-1
Fine	.6	Fine	1	Fine	1	Fine	1		
Poor	.4	Low	.8	Low	.8	Low	.8		

The formula for converting the evaluations of each criteria for the written report to a final score:

$$S_{\text{report}} = \sum_{i=1}^7 S_{R_i} P_{R_i} + S_{R_8} P_{R_8} P_{R_9} + \sum_{i=10}^{12} S_{R_i} P_{R_i} \quad (1)$$

The formula for converting the evaluations of each criteria for the oral examination and presentation to a final score for student  $j$ :

$$S_{\text{oral},j} = P_{O_{4+j}} \sum_{i=1}^4 S_{O_i} P_{O_i} \quad (2)$$

Table 3: The conversion of evaluation of the criteria for the oral presentation and examination into percentages. For the leftmost table  $1 \leq i \leq 4$ .

<b>Eval</b>	$P_{O_i}$	<b>Eval</b>	$P_{O_{\{5,6,7\}}}$
Excellent	1	Bonus	1.2
Good	.8	Default	1
Fine	.6	Weak	.8
Poor	.4		

The final score for student  $j$  is then given by

$$S_j = S_{\text{report}} + S_{\text{oral},j} \quad (3)$$

The final grade for the student is then determined by this grading table:

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>
$\geq 90$	$\geq 80$	$\geq 65$	$\geq 50$	$\geq 40$	$< 40$

## 2 Here is an example of the scoring and grading in action

Criterion	Max Score	Evaluation
R.1	5	1
R.2	5	0.8
R.3	5	0.8
R.4	5	0.6
R.5	5	0.4
R.6	10	1
R.7	3	0.8
R.8	12	1
R.9	1	0.8
R.10	5	0.8
R.11	5	0.8
R.12	3	0
O.1	10	0.8
O.2	10	0.8
O.3	10	0.8
O.4	10	0.8
O.5	1	1
100		80