Supplementary Table 9. Credits of experiment/lab/engineering design courses.

Code	Experiment/ lab		Field practice/			
		Introduction	Element	Capstone	Total	internship
А	10	0	6	3	9	12
В	10	0	14	6	20	0
С	9	3	9	4	16	0
D	-	-	-	-	-	0
Е	13	3	12	3	18	0
F	5	0	6	2	8	0
G	10	3	17	3	23	0
Н	-	-	-	-	-	0
I	-	-	-	-	-	3
J	2	1	27.5	1	29.5	1
K	-	-	-	-	-	0
L	21	3	8	3	14	5
М	12	3	8	3	14	0
N	-	3	7	3	13	2
0	8	3	10	4	17	0

Supplementary Table 10. Number of prerequisite credits and the related courses.

Code	Subject	Credit	Ratio %	Detailed field
А	4	12	8.1	Water, Air , Solid waste
В	6	18	19.6	Water, Air, Energy, Eng. design
С	6	15	16.0	Water, Air, Solid waste, Eng. design
D	13	39	39.4	Major base, Water, Air, Solid waste, Analysis lab
E	6	18	18.8	Water, Air,, Analysis lab, Eng. design
F	16	27	20.9	Major base, Water, Air, Solid waste, Analysis lab
G	4	12	8.3	Water, Air, Solid waste
Н	13	36	40.0	Major base, Water, Air, Solid waste
1	14	42	37.8	Major base, Water, Air, Solid waste
J	2	2	2.0	Engineering design
K	9	22	25.9	Water, Air, Solid waste, Eng. design
L	16	48	40.7	Major base, Water , Air , Solid waste Energy
M	10	25	25.8	Water, Air, Solid waste, Energy, Eng. design
N	0	0	0.0	-
0	11	39	52.0	Water, Air, Solid waste, Soil, Eng. design

Bold: Detailed field of studies with a high percentage of required credits