

Need Analysis of Employers, Students, and Academic Staff

MUST Project Team



Meeting in Ulaanbaatar on September 10-14, 2018

Review on Existing Situation in Making Curriculums in Mongolian Higher Education



Expert-centered

Experts make curriculums on the basis of their professional expertise



CDIO

Introducing CDIO standard into engineering curriculums



Hybrid

Hybrid Content of Soviet Period and Western Curriculum Policy

Making a Market-oriented Curriculum is the Most Important for Improving Curriculum Policy in Mongolia

You need to collaborate with employers to make excellent curriculums

Labor Market

Employer Opinion

- MIT always makes excellent curriculums to meet market and social needs, because we have a visiting committee from employers.
- Curriculum policy must be flexible and open, so that it can be updated frequently according to changes in labor market



Survey Period and Sampling

Survey on Needs in Mongolia

- **Survey Period**

May 01 – July 20, 2018

- **Sampling Method**

- Stratified cluster sampling was used for the survey
- Sampling is made up of ten of employers, senior year students, and faculty.

- **Sampling Region**

- Ulaanbaatar, Umnugobi province, and Orkhon province

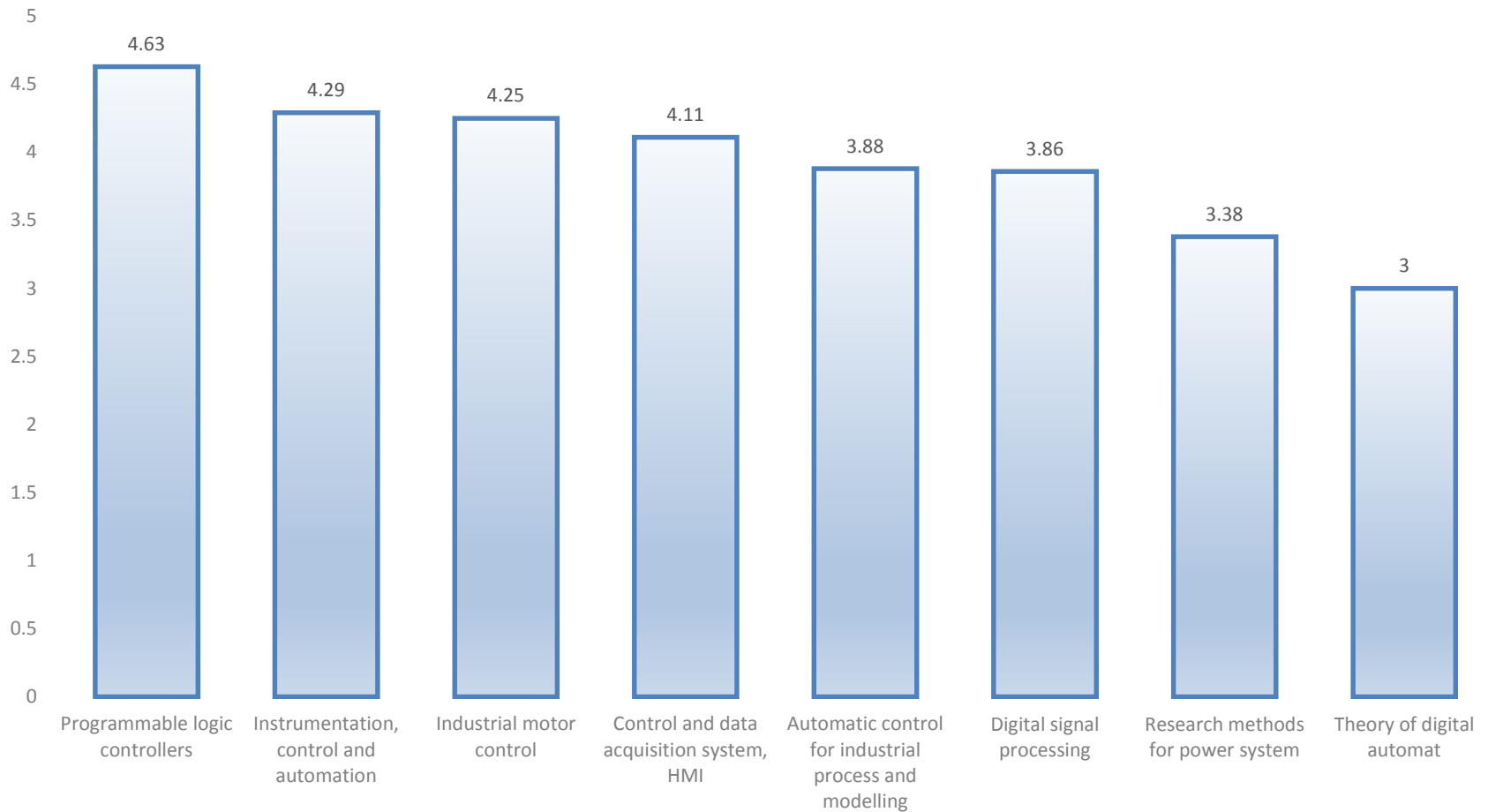
- **Number of Institutes Sampled**

- A total of 10 major employers from Mongolian mining sector, light industry, food industry and etc.

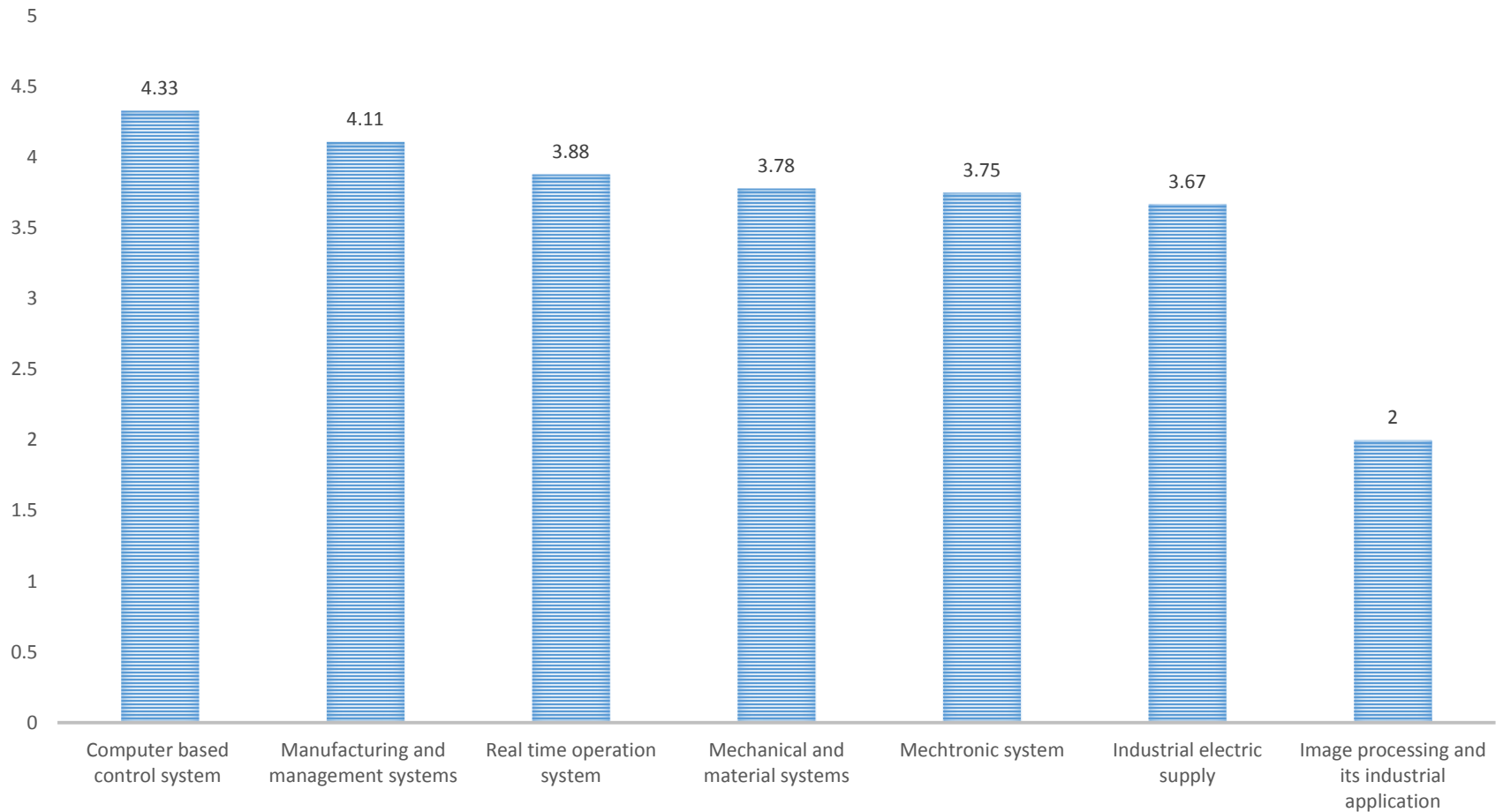
- **Number of Students Sampled**

- A total of 55 students (Senior year students)

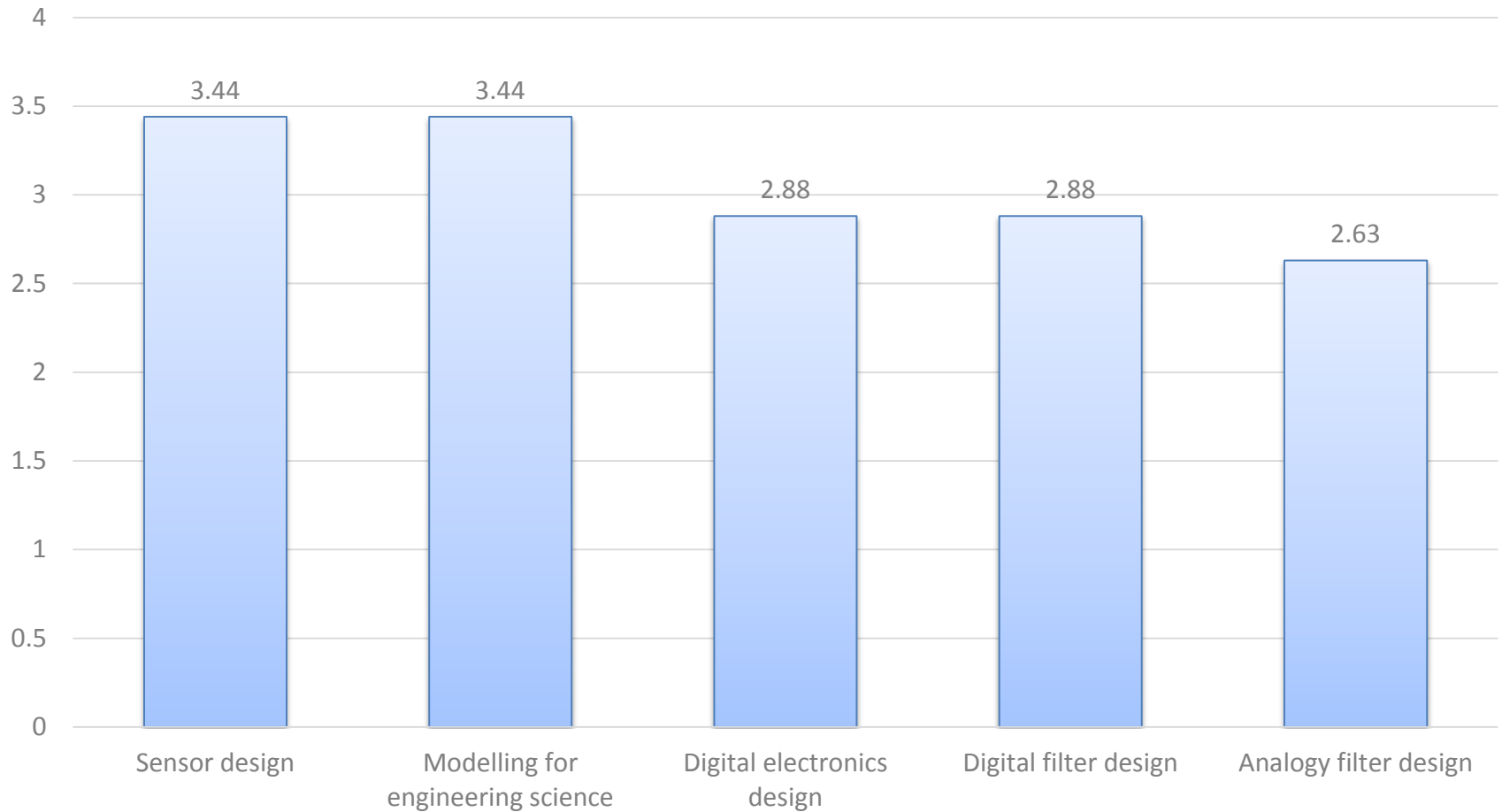
Result 1: Needs for the Industry (Fundamentals)



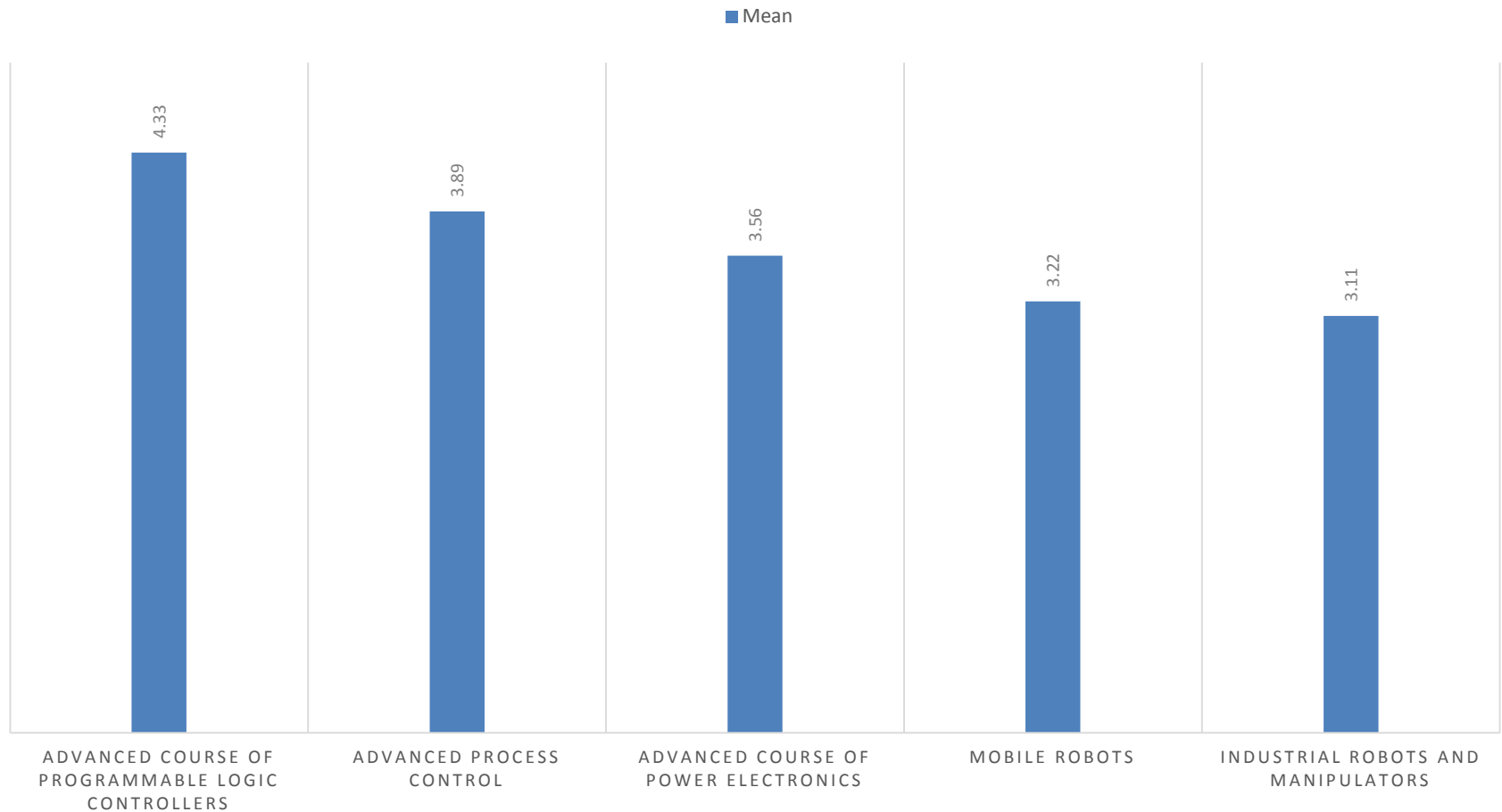
Result 2: Needs for the Industry (Technology)



Result 3: Needs for the Industry (Design)



Result 4: Needs for the Industry (Advanced)



Result 5: How confident are you in your abilities to participate in
the learning activities described below:
(Survey for Students)

		Studying additional e-learning materials given by the teacher	Searching for educational materials on internet	Following Open Courseware (s) provided by other universities	Watching recorded lectures or presentations given by experts outside your institution	Working virtually with students from other universities internationally	Carrying out experiments within remote laboratories	Designing process control project through remote access to the workstations
N	Valid	52	52	51	52	51	50	51
	Missing	3	3	4	3	4	5	4
Mean		2.35	2.40	2.16	2.33	2.04	2.24	2.20

Result 5: In which of the following teaching mode do you prefer
to use OERs:
(Survey for Students)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Face-to-face course	13	23.6	26.0	26.0
	Blended/Hybrid course	34	61.8	68.0	94.0
	Online course	2	3.6	4.0	98.0
	Other (please, explain)	1	1.8	2.0	100.0
	Total	50	90.9	100.0	
Missing	System	5	9.1		
Total		55	100.0		

**Result 6: For what teaching activities do you consider necessary
the use of OERs?:
(Survey for Academic Staff)**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Collaborative learning	4	30.8	30.8	30.8
	Autonomous Learning	4	30.8	30.8	61.5
	Educational platforms	1	7.7	7.7	69.2
	Ubiquitous learning	3	23.1	23.1	92.3
	Virtual laboratories	1	7.7	7.7	100.0
	Total	13	100.0	100.0	

Thank you

