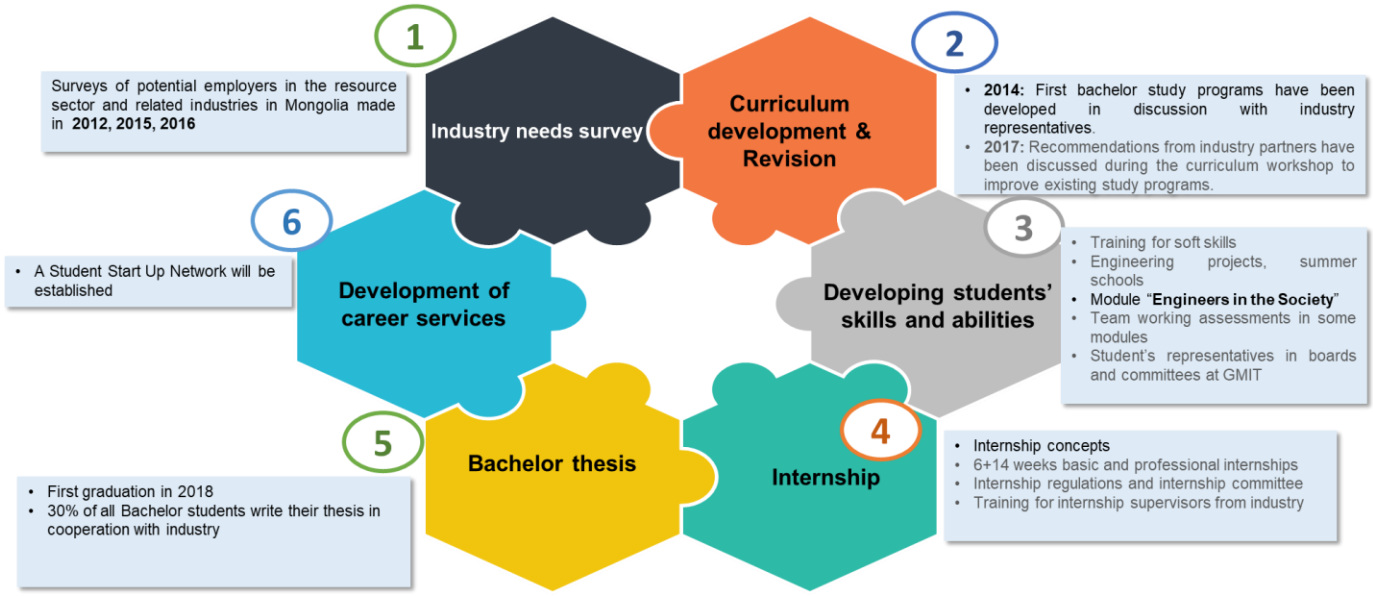
CURRICULUM DEVELOPMENT, IMPLEMENTATION AND REVISION PROCESS FLOWCHART



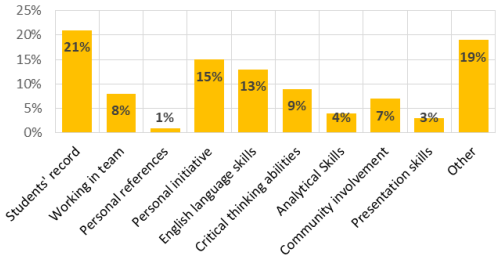
1. Survey about the Industry needs

Involved companies

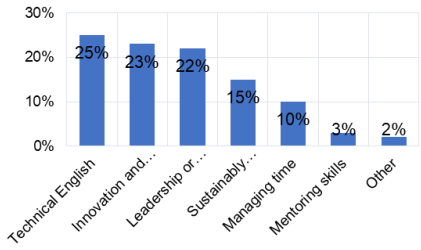
- 45 from the mining and supply sector
- 12 from the energy and power sector, and
- 3 from the environmental sector

Targeted main areas

- priority engineering disciplines
- internship opportunities,
- professional training, and
- research and development



Selection criteria for hiring interns



General skills and language training topics

2. Curriculum development and revision

More attention on personal developments of students

Active cooperation with industry through internships and bachelor thesis in curriculum implementation to educate engineers with practice oriented skills

Study in English allows graduates of GMIT the opportunity to work in international labor market

Organized workshops

- **Frequency:** 3 times in 2014, 2 times in 2015 and since 2016 annually
- **Participants:** Representatives of GMIT, German partner universities, GIZ project unit, DAAD, industry and students

Discussed topics

- Study plan, module contents and workload
- New study programs
- Human resources, supports from Germany
- Needs of laboratory and equipment

3. Developing students' skills and abilities

Training for soft skills

- Soft skills training for BEP students including time management, personal development and presentation skills
- Contents have been developed by German trainer and Mongolian colleagues
- Elective module "Learning strategies" in bachelor programs

Engineering projects

- In first and last semester of bachelor study programs
- Introduced by professor from TU Darmstadt
- Investigation of the selected problem from different perspective

The Engineer in the Society

- Deeply understanding roles and impacts of the future profession
- Reflect ethical problems caused by new technological developments, future questions involving technological policies and questions of political shaping

Team working

- Team working competition in BEP and Bachelor programmes, f.exp. in chemistry dealing with new products such as soaps and body scrubs

- Representatives of students in committees
- Scholarships, summer schools, exchange programs

4. Student Involvement and Activities

Student Council

Student representatives in Committees and Board

Study abroad programs

Germany and China

Semester in Germany

Research projects (plastic bottle, biodiesel, GLEAR etc.)

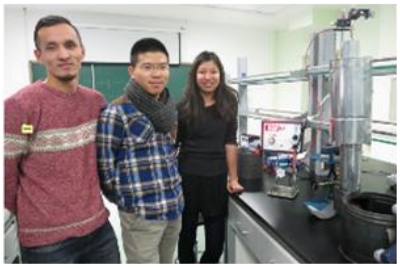
On campus employment (library & laboratories)

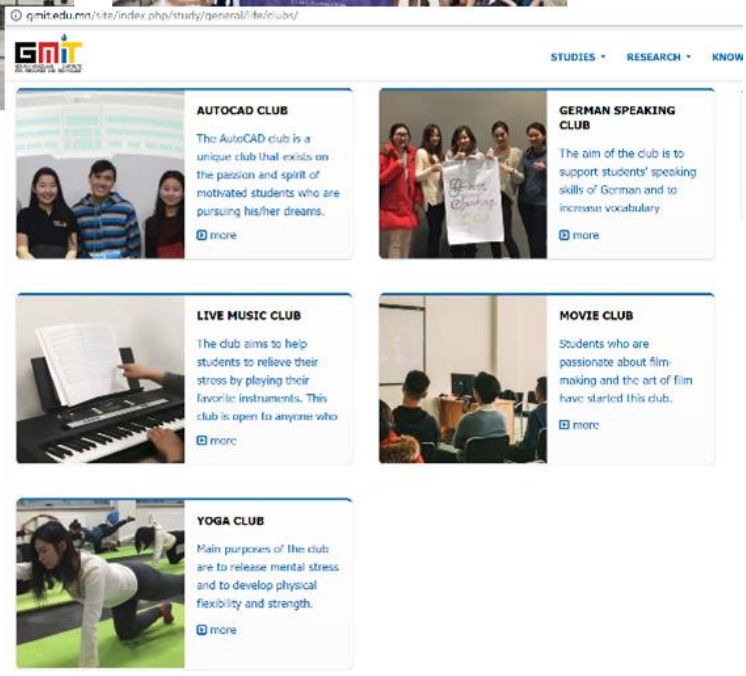
Extra-curricular activities:

Clubs (Robotics, debate, chess, CAD, life music, book, movie night etc.)

Student Olympiads (math-silver, bronze, physics-gold, chemistry-bronze, robotic soccer gold)

Start-up network



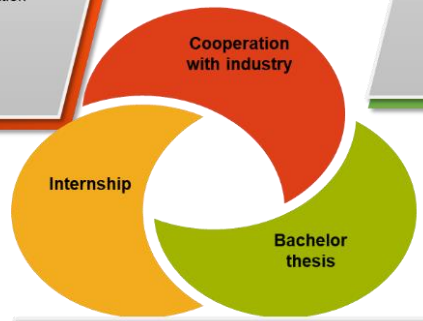


5. Internship, Bachelor Thesis, Career Services

Internships

- Internship concepts have been developed in cooperation with RWTH-Aachen
- 6+14 weeks basic and professional internships
- Internship regulations and internship committee
- Industry workshop, training and job fair

	Faculty	Duration	CP	Hours (60')	% in total CP
NUM	SEAS	4 weeks	2	72	2%
MUST	SPE	6 weeks	3	108	2%
GMIT	Engineering	14 weeks	14	420	6%
TU Freiberg	Engineering	14 weeks	17	510	8%



Career services

- A Student Start Up Network will be established
- Interview of students with employers during the job fairs
- Training for interview: Oyu Tolgoi, Energy resources

Bachelor thesis

- Topics of bachelor thesis are related to problems identified during the internship