Academic Regulations including Internal Rules of SME

■ Requirements for Ph.D. Degree

◦ Must take the minimum 60 credits including more than 36 course credits after 2013,

the minimum 72 credits including more than 42 course credits before 2012.

◦ GPA : more than 3.0/4.5

◦ Must take Korean Class I, II for the International Students

◦ Must take the 'Science, Technology and Economy' one semester

(Course Code CC0620-01)

◦ English Efficiency : Minimum TOEFL iBT 80(PBT 550), IELTS 6.5, TOEIC 750, TEPS 600.

◦ Must earn minimum 6 credits in Seminar Course of SME (Integrated : 8 credits)

(Course Code ME9600-01)

(※ to get "Satisfactory", must attend over 4 seminars in a semester)

◦ Complete "TA"ship(Teaching Assistantship) twice(two semester) within 8 semesters.

※ Ph.D. & Integrated Student No. 2013 ~ 2017 : more than one semester

※ Ph.D. & Integrated Student No. 2018 ~ : more than two semesters

◦ Pass the Qualifying Exam(DQE)

1) The DQE will be offered twice a year, on the first Tuesday in each Feb. & Aug.

2) Students who earned more than 27 course credits can apply for the DQE exam.

3) DQE subjects are as follows; (※ Please refer to the attachment)

- after 2018(or 2017 integrated) : 2 subjects
- before 2017(or 2016 integrated) : 3 subjects

4) DQE test exemption

- Students who earn a grade of A0 or higher of DQE subjects.
- SCI 1 paper publication as FA(First Author) within Ph.D. 4 semesters.

5) DQE can be accepted only twice within Ph.D. 4 semesters or 5 semesters.

(only student who don't graduate GIST master's degree within 5 semesters)

◦ Presentation of Ph.D. Proposal within Ph.D. 6 semesters

◦ Pass the final Defense (Follow the Academic Schedule)

- Application for dissertation : 'student' applies directly from ZEUS

* ZEUS System → MyService → Qualification / Graduation → Apply for thesis (main thesis) → Select [New] button → Add data to applicable item → Click [Apply] button

※ Committee Chair : Advisor

◦ Requirements for Ph.D. Degree Completion of SME (Internal Rules)

- SCI 2 papers as a FA(First Author) or
- SCI 1 paper as a FA (within JCR category 15%) or
- SCI 1 paper as a FA + 1 internationally registered patent or
- SCI 1 paper as a FA + 2 domestic registered patent

(2 or more patent contributions should be at least 50%, Exclusion of duplicate patents)

-Final accepted papers included

- Recognition of SCI co-FA as 1 paper

[Attachment]

DQE Subject [2 subjects]

※ 2 subjects = 1 subject(your research group) + 1 subject(other group)

Research Group	Course Title	Remark
Dynamics & Control	① Advanced Automatic Control / Automatic Control	Both are admitted as a similar subject.
	② Advanced Vibration	
	③ Not decided	Additional subjects will be decided in 1 year after when new faculty is hired
Design & Manufacturing	① Advanced CAD/CAM	
	② Laser Engineering	Deleted
	② Optimal Design	New subject
	③ Advanced Solid Mechanics	New subject
Thermal Fluid	① Advanced Heat Transfer	
	② Advanced Fluid Dynamics	
	③ Advanced Thermodynamics	New subject
Signal Processing & Microwave Electronics Engineering	① Applied Stochastic Process	Deleted
	② Antenna Engineering	Deleted

◦ The revised rules will be applied soon.

◦ However, the students, who entered the GIST till 1st semester of 2020, can select the previous rules.

DQE Subject [3 subjects]

※ Required: Applied Engineering Mathematics

※ 3 subjects = math + 1 subject(your research group) + 1 subject(other group)

ME1. Mechatronics Research Group

CODE	Research Group	Course Title	Remark
ME1	Robotics & Control	①Advanced Automatic Control ②Advanced Vibration	
	Visual Computing	①Computer Graphics ②Numerical Computation of Electromagnetics ③Advanced CAD/CAM	
	Micro/Nano Engineering	①Principle of Precision Design ②Fundamentals of Fluid mechanics	
	Medical Engineering	①Introduction to Biomedical Engineering	

ME2. Electromagnetic wave & Signal Processing Research Group

CODE	Research Group	Course Title	Remark
ME2	Signal Processing & Systems	①Discrete-Time Signal Processing	
	Electronic IC & Microwave Engineering	①Microwave and mm wave engineering ※ I : Passive circuit / II : Active ciriuit ※ "Microwave and mm wave engineering" is recognized in both the passive circuit and the active circuit must receive more than A0. ②Analysis and design of mixed-signal integrated circuit	