Course Requirements

❒ **Master's Program**

1) Thesis master

General Course	Major Course		Research	Total
	Mandatory	Elective		
3 and 1AU	9	9 or more	9 or more	30 or more

A. Graduation Credits: at least 30 credits in total

B. Mandatory General Course: 3 credits and (choose one from the following table)

Classification	Subject No.	Subject Name	Lecture:Lab.: Credit (Homework)	Remark
Mandatory General Courses	CC010	Special Lecture on Leadership	1:0:0	
	CC020	Ethics and Saftey I	1AU	
	CC500	Scientific Writing	3:0:3(4)	
	CC510	Introduction to Computer Application	2:3:3(10)	
	CC511	Probability and Statistics	2:3:3(6)	
	CC512	Introduction to Materials and Engineering	3:0:3(6)	
	CC513	Engineering Economy and Cost Analysis	3:0:3(6)	
	CC522	Introduction to Instruments	2:3:3(8)	
	CC530	Entrepreneurship and Business Strategies	3:0:3(6)	
	CC531	Patent Analysis and Invention Disclosure	3:0:3(6)	

- Special Lecture on Leadership (CC010) is a no-credit course, and is compulsory for those who entered in 2002 or later. Students with corporate sponsorship and foreign students are exempt from this requirement.

C. Mandatory Major Courses: 9 credit

- STP601 Survey in Science and Technology Policy, STP602 Public Policy Making, STP603 Cognitive Factors in Decision-Making Process, STP604 Environmentalism and Environmental Policy, STP605 Biotechnology and Law, STP606 Communication Technology Policy, STP607 Science & Empire (including 3 seminar credits)

D. Elective Major Courses: at least 9 credit

- STP501 Science, Technology, and Globalization, STP502 State Bureaucracy and Regulation, STP503 History of Modern Science, STP504 Research Organizations, STP505 Survey in Intellectual Property, STP506 Education and Policy, STP507 Dynamics of Cognition in Policy Judgment, STP508 Business History, STP509 Risk Assessment & Management, STP510 National Innovation System, STP511 National Security & Global Strategy (including 3 seminar credits)

E. Research Courses: at least 9 credits (including 3 seminar credits)

- Take at least 9 credits including thesis, individual study, and seminar courses
- 3 credits of this research course can be earned by internship program with at least 2 months in duration.

2) Coursework master

General Course	Major Course		Research	Total
	Mandatory	Elective		
3 and 1AU	9	15 or more	6 or more	33

A. Graduation Credits: at least 33 credits in total

B. Mandatory General Course: 3 credits and 1AU (choose one from the following table)

Classification	Subject No.	Subject Name	Lecture:Lab.: Credit (Homework)	Remark
Mandatory General Courses	CC010	Special Lecture on Leadership	1:0:0	
	CC020	Ethics and Saftey I	1AU	
	CC500	Scientific Writing	3:0:3(4)	
	CC510	Introduction to Computer Application	2:3:3(10)	
	CC511	Probability and Statistics	2:3:3(6)	
	CC512	Introduction to Materials and Engineering	3:0:3(6)	
	CC513	Engineering Economy and Cost Analysis	3:0:3(6)	
	CC522	Introduction to Instruments	2:3:3(8)	
	CC530	Entrepreneurship and Business Strategies	3:0:3(6)	
	CC531	Patent Analysis and Invention Disclosure	3:0:3(6)	

- Special Lecture on Leadership (CC010) is a no-credit course, and is compulsory for those who entered in 2002 or later. Students with corporate sponsorship and foreign students are exempt from this requirement.

C. Mandatory Major Courses: 9 credits
- STP601 Survey in Science and Technology Policy, STP602 Public Policy Making, STP603 Cognitive Factors in Decision-Making Process, STP604 Environmentalism and Environmental Policy, STP605 Biotechnology and Law (including 3 seminar credits)

D. Elective Major Courses: at least 15 credits
- STP501 Science, Technology, and Globalization, STP502 State Bureaucracy and Regulation, STP503 History of Modern Science, STP504 Research Organizations, STP505 Survey in Intellectual Property, STP506 Education and Policy, STP507 Dynamics of Cognition in Policy Judgment, STP508 Business History, STP509 Risk Assessment & Management, STP510 National Innovation System, STP511 National Security & Global Strategy (including 5 seminar credits)

E. Research Courses: at least 6 credits (including 3 seminar credits)
- Take at least 6 credits including individual study and seminar courses
- 3 credits of this research course can be earned by internship program with at least 2 months in duration.