# **Course Requirement Guide Book**

(October 2012)

Master's Program Given in English

**TOYOHASHI UNIVERSITY OF TECHNOLOGY** 

# **I** Requirements for graduation

# 1. Requirements for graduation

To complete the master's course, a student must participate in the course for two or more years, and must acquire the minimum credits required as follows. A student must carry out a research under a proper guidance by faculty members. Also a student must submit a master's thesis, and must pass the review and final examination. Note that students showing excellent achievements may finish in a shorter study period.

Classification		Required credits for graduation	Remarks
Ģ	eneral subjects	6	
S	pecialized subjects		
	Mechanical Engineering	24	
	Electrical and Electronic Information Engineering	24	6 credits in total can be substituted with combination of following options, with a
	Computer Science and Engineering	24	<ol> <li>Master's specialized subjects from other major</li> </ol>
	Environmental and Life Science	24	2. Subjects held in Japanese (Note that you cannot chose a subject in Japanese when you already choose the same subject in English and vice
	Architecture and Civil Engineering	24	versa)
	Grand total	30	

# 2. Application for degree

Only a student who has acquired the credits required for finishing, or who is expected to acquire the credits can apply for a master's degree. Submission procedures of thesis for master's degree shall be posted on a bulletin board before the submission period.

# **II** Class registration, examination, attendance period

### 1. Class registration method

Classes shall be registered according to the program schedule of your respective major.

#### (1) Making a study plan

Read this manual thoroughly, and follow the instructions and advice given during orientations at the beginning of the academic year or that given by your supervisor, and set your class schedule.

Provide enough time-allowance to your schedule.

The class timetable will be provided at the beginning of each academic year. Schedule for special intensive classes will be posted up on a bulletin board as soon as the details are fixed.

#### (2) Class registration

The student must register the classes by Dream Campus (through TUT website) during the designated date. (https://www.ead.tut.ac.jp/portal/) or by the sheet of "Application for Subjects".

Those classes not registered will not be accredited in any case. NOTE:

- To take other majors subjects given in Japanese, the student must obtain approval from his/her supervisor and the subject instructor with a sheet of "Application for Registration of Subjects in Other Department ", before registering the subject.
- 2) If the student does not attend the class nor take the examinations, credits will not be given even if the registration is made.
- 3) A student cannot re-register the subject once credits are given.
- Subjects held at the same time schedule cannot be registered. Note that this does not apply for subjects being taken again for examinations only, or intensive subjects.

#### (3) Confirming and amending the registration

To confirm your class registration or to amend it, please access to Dream Campus. Please refer to the manuals of Dream Campus for how to use.

#### (4) Repeating classes

Basically, a student who has failed in a subject with regular examinations, or some other reasons, can take the same subject again in the next academic year. To repeat a subject, students must make registration again.

#### (5) Repeating classes by examination.

When a subject instructor approves your credits by passing the examination without re-attending the classes, the student can register the subject with a sheet of "Application for Registration for Repeating Subjects (by Examination)".

## 2. Examination

Examination includes regular examinations and makeup examinations.

#### (1) Regular examination

As a principle, regular examination shall be held during the set period at the end of each term.

All students are to check the exam schedule on the academic calendar on Dream Campus (through TUT website) or bulletin board at A-bldg. Note that examination may be held at any time when found necessary by the subject instructor.

#### (2) Make-up examination

- 1) Make-up examination shall be held only when the student could not take the regular examination due to the following reasons. The student must gain the approval of the subject instructor with a sheet of "Request for makeup examination".
  - a) Illness (doctor's medical certificate must be submitted)
  - b) Accidents or disaster (certificate of proof must be submitted), and other special reasons (a letter explaining the reason must be submitted).
- 2) "Request for makeup examination" must be submitted to the Academic Affairs Division within one week from the final date of regular examination.
- 3) If a student fails to take the makeup examination, further examination will not be held.

#### (3) Approval of credits and evaluation

A subject instructor shall approve the credits for the subject.

1) Your grades are calculated according to the following basis.

Grade	Scores	Approval
А	Over 80	Units certified
В	65-79	Units certified
С	55-64	Units certified
D	Under 55	Units NOT certified

2) Results will be available on Dream Campus after the certain days of the examination.

### 3. Maximum years of attendance, etc.

#### (1) Maximum years of attendance

It is not possible for a student to be in the master's course at the university exceeding four years.

#### (2) Leave of absence

If a student cannot attend classes for two or more months uninterruptedly due to illness or other special reasons, the student may submit a sheet of "Request for leave of absence" to Academic Affairs Division after getting the approval from his/her supervisor and their department head. Upon approval from the President, the student may have a leave of absence (two years in total).

The period that the student is absent will not be counted in the above "(1). Maximum years of attendance".

To return to school after the end of the approved period, the student must submit a sheet of "Notification of return to school".

To return to school before the approved period due to the elimination of the reason, the student must submit a sheet of "Request to return to school" and obtain approval.

#### (3) Withdrawal

If a student wants to withdraw from the university, the student must submit a sheet of "Request for withdrawal" to Academic Affairs Division after getting the approval from his/her supervisor and their department head. Upon approval from the President, the student may have withdrawal from the university. Note that the tuition fee has to be paid even if a student withdraws in a middle of term in full amount.

#### (4) Elimination from University

A student will be eliminated from the university for folloing reasons.

- 1) When a student exceed the period mentioned in above "(1) Maximum years of attendance"
- 2) When a student cannot return to school after the period mentioned in above "(2) Leave of absence."
- 3) When a student is died, or disappeared.
- 4) Those who are approved for the admission fee half exemption or postponement and did not pay for the admission fee before the designated period.
- 5) Those who failed to pay for the tuition and did not pay even after the warning.

### 4. Others

#### (1) Information about canceled or makeup classes

All students may need to double-check your class schedule and other information on following bulletin boards:

	Location	information	
	Central Bulletin Board (panel board)	Class schedule change	
Lecture hall at 1 <sup>st</sup> floor, A-bldg.	Electronic Bulletin Board (LCD)	Canceled or makeup classes, rescheduled notices	
	Glass-covered Bulletin Board	Others	
TUT website	http://annai00.gakumu.tut.ac.jp/adlight/adlightww/conduct_list_a.asp	Canceled or makeup classes	
TUT website for mobile phones	http://osirabe.net/tut/	Canceled or makeup classes	

#### (2) Classes/exams in case A STORM WARNING is announced.

In case a Storm Warning (*Bo-fu Keiho*) is announced in <u>South East Aichi</u> <u>Prefecture</u>, TUT will conduct classes or examinations as follows:

- 1) To prevent any accident, All classes will be CANCELED
- 2) If the Storm Warning is CLEARED <u>BEFORE AM7:00</u>, all classes are on SCHEDULE.
- 3) If the Storm Warning is CLEARED <u>Between AM7:00 and AM11:00</u>, all classes STARTS from 3<sup>rd</sup> HOUR (\*1st and 2nd hr. will be CANCELED)
- 4) If the Storm Warning is still ANNOUNCED <u>AFTER AM11:00</u>, ALL classes will be CANCELED

All cancelled classes and examinations will be rescheduled.

#### (3) Information about RESCHEDULED CLASSES/EXAMS

TUT will reschedule classes/exams canceled by natural disasters on "YOBIBI"(an optional extra day). The dates may also be used for makeup classes, students may check the schedules TWO WEEKS BEFORE THE DATES at lecture hall at A-Bldg.

However, rescheduled classes/exams due to bad weather etc. have priority on the occasional dates and scheduled makeup classes on the dates will be canceled. You must double check the information from TUT especially on unusual cases.

#### (4) All students will be provided TUT student mail account.

TUT recommend all students to set up e-mail forwarding service in order to receive important information of class-scheduling, grading and other communications from the university.

#### (5)Absence from classes

When you have to be absent from classes due to illness, bereavement leave or other reasons, you need to inform reasons to your subject instructor by yourself. How your absence will be dealt with is depends on subject instructor.

Reasons of Absence	Certification	Procedure
Illness/Injury	Medical certificate or	Students inform directly to
	Medical expense	lecturers
	receipts	
Bereavement	-	
leave		
Infection diseases*	Medical certificate or	Students inform to Student
	Medical expense	Affairs Division (44-6553), TUT
	receipts	office staff will report to
		lecturers.

\*TUT may admonish suspension order to prevent spread infection. Suspension order will be posted on bulletin board at A-building.

# **III** Curriculum

### 1. Classes and credits.

#### (1) Classes

Your classes are divided into General subjects and Specialized subjects. Numbers of credits are set for each subject.

For the subjects to be offered, see the following pages.

See the web syllabus for details of the subjects.

#### (2) Compulsory subjects and elective subjects

- 1) Compulsory subjects are the subjects that must be completed as the requirement of the major.
- 2) Elective subjects can be selected and taken from those subjects being offered for the designated numbers of credits.

#### (3) Calculating credits

Classes those teaching type are lectures, exercise, experiments, practical or hands-on training, are offered individually or in combination among them. The class time for one credit is calculated under the following standards.

- 1) For lectures, one credit requires 15 hours of classes.
- 2) For exercises, one credit requires 30 hours of classes.
- 3) For experiments, practical or hands-on training, one credit requires 45 hours of classes.

#### (4) School term

School term is determined according to the academic year calendar, and consists of two terms; Spring term (from April 1 until September 30) and Fall term (from October 1 until March 31)

# Mechanical Engineering

										LOILIIO
					Cla	asses/W	eek	0		
Compulsory /	Subject Name	Code No	Credit	Fall 1	Fall 2	grade Spring 1	Spring 2	2nd grade	Instructor	note
Elective			S	201	2.10	201	3. 4	2013.10	motraotor	noto
				201	3. 3	201	3. 9	2014. 9		
	Seminar on Mechanical Engineering I	4161001	4			4			Supervisor	
Compulsory	Seminar on Mechanical Engineering II	4161002	2					2	Supervisor	
	Thesis Research on Mechanical Engineering	4161003	6			9			Supervisor	
	Vibration and Impact Mechanics	4163001	1					0.5	S. Kawamura	
	Deformation Processing Technology	4163002	1	1					K. Mori	
	Applied Mechanics of Materials	4163003	1			1			T. Adachi	
	Micromachining Engineering	4163004	1					0.5	T. Shibata	
	Biomechanics of Human Locomotion	4163005	1					0.5	Y. Yasuda	
	Practical Surface Analysis	4163006	1			1			Y. Takeichi	
	Joining and Surfacing of Materials	4163007	1					0.5	M. Fukumoto	
	Science and Technology of Thin Films	4163008	1				1		M. Izaki	
	Deformation and Fracture of Materials	4163009	1	1					H. Toda	
	Phase Transformation in Materials	4163010	1		1				M. Umemoto	
	Engineering Safety	4163011	1					0.5	R. Batres	
	Time-frequency Analysis and Wavelet Transform	4163012	1					0.5	Z. Zhang	
	Modeling and Analysis of Dynamical Control Systems	4163013	1					0.5	K. Terashima	
<b>F</b> 1	Robotics	4163014	1				1		N. Uchiyama	
Elective	High-Speed Mechanics and Optical Measurement	4163030	1				1		S. Suzuki	
	Applied Thermal Engineering	4163016	1	1					K. Kitamura	
	Advanced Applied Fluid Engineering	4163017	1					0.5	M. Nakagawa, H. Yanada	
	Applied Fluid Dynamics	4163018	1					0.5	T. Suzuki, N. Sekishita	
	Applied Combustion Engineering	4163019	1					0.5	S. Noda	
	Advanced Aeroacoustics	4163029	1	1					A. lida	
	Advanced Mechanical Systems Design I	4163021	2	1	1			(1)	Supervisor	
	Advanced Mechanical Systems Design II	4163022	2				1	(1)	Supervisor	
	Advanced Materials and Manufacturing Process I	4163023	2	1	1			(1)	Supervisor	
	Advanced Materials and Manufacturing Process II	4163024	2				1	(1)	Supervisor	
	Advanced System, Control and Robotics I	4163025	2	1	1			(1)	Supervisor	
	Advanced System, Control and Robotics II	4163026	2				1	(1)	Supervisor	
	Advanced Energy and Environmental Engineering I	4163027	2	1	1			(1)	Supervisor	
	Advanced Energy and Environmental Engineering II	4163028	2				1	(1)	Supervisor	

 $\blacklozenge$  Those subjects whose numbers marked with "( )" will be held every year.

◆ "0.5" signifies that this subject will be held in any one of a quarter term (Spring 1, Spring 2, Fall 1 or Fall 2).

# Electrical and Electronic Information Engineering

				Cla	asses/Week			
Compulsory				1st g	grade	2nd		
/	Subject Name	Code No.	Credit s	Fall Spring		grade	Instructor	note
Elective			Ũ	2012.10	2013. 4	2013.10		
				2013. 3	2013. 9	2014. 9		
	Seminar on Electrical and Electronic Information Engineering	4261001	3	;	3		Supervisor	
Compulsory	Thesis Research on Electrical and Electronic Information Engineering	4261002	6		9			
	Advanced Mathematics for EEI	4261003	1.5	1		(1)	Supervisor	
	Applied Physics	4262001	1.5	1		(1)	Supervisor	
	Applied Materials Chemistry	4262002	1.5	1		(1)	Supervisor	Choose one subject
	Applied Circuit Theory	4262003	1.5	1		(1)	Supervisor	
	Material Science for Electronics	4263001	2	1			T. Ishiyama, Y. Nakamura, T. Hattori, K. Hattori, H. Muto	
	Physics for Electronics	4263002	2			1	M. Fukuda, M. Inoue, A. Matsuda	
Elective	Electrical Energy Systems	4263003	2	1			M. Nagao, H. Takikawa, Y. Sakurai, N. Hozumi	
	Electrical Technology and Materials	4263004	2			1	Yo. Murakami, Y. Suda, R. Inada	
	Semiconductor Physics	4263005	2	1			A. Wakahara, H. Okada	
	LSI Process	4263006	2			1	M. Ishida K. Sawada, T. Kawano <del>,</del> Yu. Murakami	
	Information and Communication Technology	4263007	2		1		T. Ohira, H. Uehara	
	Advanced Electronic Information System	4263008	2			1	S. Ichikawa,	
	Methodology of R & D	4263009	2	1		(1)	Supervisor	

 $\blacklozenge$  Those subjects whose numbers marked with "( )" will be held every year.

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# Computer Science and Engineering

				Cl	asses/Week			
Compulsory				1st (	grade	2nd		
/	Subject Name	Code No.	Credits	Fall	Fall Spring		Instructor	note
Elective				2012.10	2013. 4	2013.10		
				2013. 3	2013. 9	2014. 9		
	Seminar on Computer Science and Engineering I	4361001	4		4		Supervisor	
Compulsor y	Seminar on Computer Science and Engineering II	4361002	2			2	Supervisor	
	Thesis Research on Computer Science and Engineering	4361003	6		9		Supervisor	
	Technical English Presentation	4363001	2		2	(2)	H. Ishiguro	
	System Design Project	4363002	2		3	(3)	Supervisor	
	Speech and Language Processing, Advanced	4363022	2		1	(1)	S. Nakagawa, T. Akiba	
	Networking, Advanced	4363004	2	1		(1)	K. Umemura, R. Ohmura	
	Advanced Robotics and Informatics	4363005	2	1		(1)	M. Okada, J. Miura	
	Web Data Engineering, Advanced	4363023	2		1	(1)	S. Kuriyama, M. Aono	
	Computers and Education	4363008	2			1	K. Kawai	
	Multimodal Information Processing	4363009	2		1		K. Katsurada	
Elective	Image Processing, Advanced	4363010	2	1		(1)	Y. Kanazawa, Y. Sugaya	
	High Performance Computing	4363011	2			1	H. Goto	
	Algorithm Engineering, Advanced	4363014	2	1			S. Masuyama, T. Fujito	
	Computer Systems, Advanced	4363015	2	1		(1)	R. Kobayashi	
	Quantum Biology and Materials Science	4363016	2		1	(1)	H. Sekino, N. Kurita	
	Complex Systems and Intelligent Informatics	4363017	2	1		(1)	Y. Ishida, K. Murakoshi	
	Advanced Chemoinformatics	4363021	2		1		Y. Takahashi, H. Kato	
	Bio-physical Information Systems	4363019	2			1	J. Horikawa, N. Fukumura	
	Advanced Topics in Brain and Cognitive Sciences	4363020	2	1			S. Nakauchi, M. Kitazaki	

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2012.10

### **Environmental and Life Sciences**

										2012.10
					CI	asses/We	ek			
Compulsory			Onedia		1st :	grade		2nd		
/	Subject Name	Code No.	S	Fall 1	Fall 2	Spring 1	Spring 2	graue	Instructor	note
Elective				201	-	201	0.4 -	-		
				201	3. 3	201	3. 9	2014. 9		
	Seminar on Environmental and Life Science I	4461001	3			3			Supervisor	
Compulsory	Seminar on Environmental and Life Science II	4461002	3					3	Supervisor	
	Thesis Research on Environmental and Life Science	4461003	6			9			Supervisor	
	Advanced Separation Chemistry I	4463001	1					0.5	Y. Saito	
	Advanced Separation Chemistry II	4463002	1					0.5	Y. Hirata	
	Special Topics in Inorganic Chemistry	4463027	1	1					N. Kakuta	
	X-ray Spectroscopy for Catalytic Engineering	4463028	1				1		T. Mizushima	
	Applied Physical Chemistry I	4463005	1					0.5	A. Matsumoto	
	Applied Physical Chemistry II	4463006	1				1		A. Matsumoto	No class will be held on and after 2016
	Advanced Polymer Chemistry	4463007	1	1					S. Itsuno	
	Advanced Polymer Engineering	4463008	1		1				E. Yoshida	
	Advanced Composite Science	4463009	1					0.5	T. Takeichi	
	Special Topics in Applied Organic Chemistry	4463010	1			1			S. Iwasa	
	Developmental Neuroscience	4463011	1					0.5	S. Yoshida	
	Advanced Molecular Life Science	4463012	1		1				Y. Kikuchi, T. Tanaka	
Elective	Advanced Applied Biochemistry and Biotechnology	4463013	1					0.5	A. Hiraishi, T. Eki	
	Advanced Electrical and Electronic Technology for Ecological Engineering	4463014	1					0.5	S. Tanaka, Y. Hatsukade A. Mizuno, K. Takashima	
	Advanced Eco-Materials Engineering	4463016	1					0.5	H. Tsuji	
	Advanced Reaction Engineering	4463018	1			1			T. Oguchi	
	Advanced Sustainable Coordinator	4463019	1					0.5	N. Goto	
	Advanced Supercritical Fluid Engineering	4463020	1					0.5	H. Daimon	
	※ Advanced Life Science and Biotechnology I	4463021	2		1			(1)	Supervisor	
	※ Advanced Life Science and Biotechnology II	4463022	2				1	(1)	Supervisor	
	X Advanced Environmental Technology I	4463023	2		1			(1)	Supervisor	
	X Advanced Environmental Technology II	4463024	2				1	(1)	Supervisor	
	X Advanced Environmental and Ecological Systems I	4463025	2		1			(1)	Supervisor	
	※ Advanced Environmental and Ecological Systems II	4463026	2				1	(1)	Supervisor	

 $\ensuremath{\mathbbmm}$  Please ask your supervisor about class schedule of this subject

 $\blacklozenge$  Those subjects whose numbers marked with "( )" will be held every year.

 $\bullet$  "0.5" signifies that this subject will be held in any one of a quarter term (Spring 1, Spring 2, Fall 1 or Fall 2).

# Architecture and Civil Engineering

	1							
				Cl	asses/Week	and		
Compulsory			Credit	181	giaue	grade		
/ Elective	Subject Name	Code No.	s	Fall 2012.10	Spring 2013. 4	2013.10	Instructor	note
				_ 2013. 3	_ 2013. 9	- 2014. 9		
	Seminar on Architecture and Civil Engineering I	4561001	3		3		Supervisor	
Compulsory	Seminar on Architecture and Civil Engineering II	4561002	3			3	Supervisor	
	Thesis Research on Architecture and Civil Engineering	4561003	6		9		Supervisor	
	Elasticity and Stability	4563001	2			1	S. Yamada	
	Finite Element Method for Continua and Bar Structures	4563002	2	1			S. Nakazawa	
	Seismic Evaluation of Existing Buildings	4563003	2			1	T. Matsui	
	Seismic Design of Structures	4563029	2	1				TBA (new faculty member)
	Geologic Hazard and Mitigation Planning	4563004	2			1	M. Kawamura	
	Geotechnical Analysis	4563005	2	1			K. Miura	
	Building Science: Indoor Air Quality and Ventilation	4563006	2			1	H. Matsumoto	
	Building and Urban Thermal Environment	4563026	2		1		Y. Masuda	
	Coastal Hydraulics	4563009	2			1	S. Kato	
	Water Environment Engineering	4563027	2			1	T. Inoue	
	Civil Engineering Class	4563030	2		1			TBA (new faculty member)
	Computer Applications in Urban Planning	4563011	2	1			A. Ohgai	
	Human Settlement: Its History and Theory	4563012	2			1	H. Izumida	
Elective	Advanced Study on Housing System and Housing Policy	4563013	2		1		S. Matsushima	
	Advanced District Planning	4563014	2			1	J. Asano	
	Adavnced Architectual Planning	4563028	2		1		Y. Kakino	
	Advanced Transportation and Traffic Engineering	4563015	2			1	Y. Hirobata	
	Modeling Regional Environment	4563016	2	1			Y. Miyata	
	Management of Technology	4563017	2	1			T. Fujiwara	
	Advanced Computational Economics	4563018	2			1	H. Shibusawa	
	※ Advanced Structural System Planning and Design I	4563019	2	1		(1)	Supervisor	
	X Advanced Structural System Planning and Design II	4563020	2		1	(1)	Supervisor	
	X Advanced Environmental System Planning and Design I	4563021	2	1		(1)	Supervisor	
	X Advanced Environmental System	4563022	2		1	(1)	Supervisor	
	X Advanced Regional System Planning and Design I	4563023	2	1		(1)	Supervisor	
	X Advanced Regional System Planning and Design II	4563024	2		1	(1)	Supervisor	

 $\ensuremath{\mathbbmm}$  Please ask your supervisor about class schedule of this subject

 $\blacklozenge$  Those subjects whose numbers marked with "( )" will be held every year.

# General subjects

				Cla	asses/Week			
Compulsory				1st (	grade	2nd		
/	Subject Name	Code No.	Credit	Fall 1 Fall 2	Spring 1 Spring 2	grade	Instructor	note
Elective			5	2012.10	2013. 4	2013.10		
				- 2013. 3	- 2013. 9	- 2014. 9		
	Management Science	4003001	2		1	(1)	Y. Miyata, T. Fujiwara	
	Industrial Policies	4003002	2	1		(1)	H. Shibusawa	
	Environmental Planning	4003007	2			1	T. Hiramatsu	
Elective	Culture and Communication I	4003003	2	1			M. Kato	
	Culture and Communication II	4003004	2			1		
	Japanese Life Today	4003005	2		1	(1)	T. Hayashi	
	Intercultural Communication	4003006	2		1	(1)	Y. Muramatsu	

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2012.10

# Twinning Program Course Requirement Guide Book

(October 2012)

Master's Program Given in English

**TOYOHASHI UNIVERSITY OF TECHNOLOGY** 

# **I** Requirements for graduation

# 1. Requirements for graduation

To complete the master's course, a student must participate in the course for one or more years, and must acquire the minimum credits required as follows. A student must carry out a research under a proper guidance by faculty members. Also a student must submit a master's thesis, and must pass the review and final examination.

Classification	Required credits for graduation	Remarks
General subjects	6	
Specialized subjects		
Mechanical Engineering	24	
Electrical and Electronic Information Engineering	24	
Computer Science and Engineering	24	
Environmental and Life Science	24	
Architecture and Civil Engineering major	24	
Grand total	30	

For students in the Twinning Course, up to 10 credits that the students had acquired at his/her university before coming to TUT can be transferred to TUT Master's Program only if TUT admits after being examined. Those 10 credits shall be determined by TUT's criterion.

## 2. Application for degree

Only a student who has acquired the credits required for finishing, or who is expected to acquire the credits can apply for a master's degree. Submission procedures of thesis for master's degree shall be posted on a bulletin board before the submission period.

# **II** Class registration, examination, attendance period

### 1. Class registration method

Classes shall be registered according to the program schedule of your respective major.

#### (1) Making a study plan

Read this manual thoroughly, and follow the instructions and advice given during orientations at the beginning of the academic year or that given by your supervisor, and set your class schedule.

Provide enough time-allowance to your schedule.

The class timetable will be provided at the beginning of each academic year. Schedule for special intensive classes will be posted up on a bulletin board as soon as the details are fixed.

#### (2) Class registration

The student must register the classes by Dream Campus (through TUT website) during the designated date (https://www.ead.tut.ac.jp/portal/) or by the sheet of "Application for Subjects".

Those classes not registered will not be accredited in any case. NOTE:

- To take other majors subjects given in Japanese, the student must obtain approval from his/her supervisor and the subject instructor with a sheet of "Application for Registration of Subjects in Other Department ", before registering the subjects.
- 2) If the student does not attend the class nor take the examinations, credits will not be given even if the registration is made.
- 3) A student cannot re-register the subject once credits are given.
- Subjects that held at the same time schedule cannot be registered. Note that this does not apply for subjects being taken again for examinations only, or intensive subjects.

#### (3) Confirming and amending the registration

To confirm your class registration or to amend it, please access to Dream Campus. Please refer to the manuals of Dream Campus for how to use.

#### (4) Repeating classes

Basically, a student who has failed in a subject with regular examinations, or some other reasons, can take the same subject again in the next academic year. To repeat a subject, students must make registration again

#### (5) Repeating classes by examination.

When a subject instructor approves of your credits by passing the examination without re-attending the class, students can register the subject with a sheet of "Application for Registration for Repeating Subjects (by Examination)".

## 2. Examination

Examination includes regular examinations and makeup examinations.

#### (1) Regular examination

As a principle, regular examinations shall be held during the set period at the end of each term.

All students are to check the exam schedule on the academic calendar on Dream Campus (through TUT website) or bulletin board at A-bldg. Note that examination may be held at any time when found necessary by the subject instructor.

#### (2) Make-up examination

1) Make-up examination shall be held only when the student could not take the regular examination due to the following reasons. The student must gain the approval of the subject instructor with a sheet of "Request for makeup examination".

- a) Illness (doctor's medical certificate must be submitted)
- b) Accidents or disaster (certificate of proof must be submitted), and other special reasons (a letter explaining the reason must be submitted).
- 2) "Request for makeup examination" must be submitted to the Academic Affairs Division within one week from the final date of regular examination.
- 3) If a student fails to take the makeup examination, further examination will not be held.

#### (3) Approval of credits and evaluation

A subject instructor shall approve the credits for the subject. or printed

1) Your grades are calculated according to the following basis.

Grade	Scores	Approval
А	Over 80	Units certified
В	65-79	Units certified
С	55-64	Units certified
D	Under 55	Units NOT certified

2) Results will be available on Dream Campus after the certain days of the examination.

### 3. Maximum years of attendance, etc.

#### (1) Maximum years of attendance

It is not possible for a student to be in the master's course at the university exceeding two years.

#### (2) Leave of absence

If a student cannot attend classes for two or more months uninterruptedly due to illness or other special reasons, the student may submit a sheet of "Request for leave of absence" to Academic Affairs Division after getting the approval from his/her supervisor and their department head. Upon approval from the President, the student may have a leave of absence (two years in total).

The period that the student is absent will not be counted in the above "(1) Maximum years of attendance".

To return to school after the end of the approved period, the student must submit a sheet of "Notification of return to school".

To return to school before the approved period due to the elimination of the reason, the student must submit a sheet of "Request to return to school" and obtain approval.

#### (3) Withdrawal

If a student wants to withdraw from the university, the student must submit a sheet of "Request for withdrawal" to Academic Affairs Division after getting the approval from his/her supervisor and their department head. Upon approval from the President, the student may have withdrawal. Note that the tuition fee has to be paid in full even if a student withdraws in a middle of term.

#### (4) Elimination from the University

A student will be eliminated from the university for folloing reasons.

- 1) When a student exceed the period mentioned in above "(1). Maximum years of attendance"
- 2) When a student cannot return to school after the period mentioned in above "(2) Leave of absence."
- 3) When a student is died, or disappeared.
- 4) Those who are approved for the admission fee half exemption or postponement and did not pay for the admission fee before the designated period.
- 5) Those who failed to pay for the tuition and did not pay even after the warning.

## 4. Others

#### (1) Information about canceled or makeup classes

All students may need to double-check about your class schedule and other information on following bulletin boards:

	information	
	Central Bulletin Board (panel board)	Class schedule change
Lecture hall at 1 <sup>st</sup> floor, A-bldg.	Electronic Bulletin Board (LCD)	Canceled or makeup classes, rescheduled notices
	Glass-covered Bulletin Board	Others
TUT website	http://annai00.gakumu.tut.ac.jp/adlight/adlightwww/conduct_list_a.asp	Canceled or makeup classes
TUT website for mobile phones	http://osirabe.net/tut/ *Mobile tagging by camera phones	Canceled or makeup classes

#### (2) Classes/exams in case A STORM WARNING is announced

In case a Storm Warning (*Bo-Fu Keisha*) is announced in <u>South East Aichi</u> <u>Prefecture</u>, TUT will conduct classes or examinations as follows:

- 1) In order to prevent any accident, All classes will be CANCELED during the Storm Warning.
- 2) If the Storm Warning is CLEARED <u>BEFORE AM7:00</u>, all classes are on SCHEDULE.
- 3) If the Storm Warning is CLEARED <u>Between AM7:00 and AM11:00</u>, all classes STARTS from3rd HOUR (\*1st and 2nd hr. will be CANCELED)
- If the Storm Warning is still ANNOUNCED <u>AFTER AM11:00</u>, ALL classes will be CANCELED

All cancelled classes and examinations will be rescheduled.

#### (3) Information about RESCHEDULED CLASSES/EXAMS

TUT will reschedule classes/exams canceled by natural disasters on "YOBIBI"(an optional extra day). The dates may also be used for makeup classes, students may check the schedules TWO WEEKS BEFORE THE DATES at lecture hall at A-Bldg.

However, rescheduled classes/exams due to bad weather etc. have priority on the occasional dates and scheduled makeup classes on the dates will be canceled. You must double check the information from TUT especially on unusual cases.

#### (4) All students will be provided TUT student mail account.

TUT recommend all students to set up e-mail forwarding service in order to receive important information of class-scheduling, grading and other communications from the university.

#### (5)Absence from classes

When you have to be absent from classes due to illness, bereavement leave or other reasons, you need to inform reasons to your subject instructor by yourself. How your absence will be dealt with is depends on subject instructor.

Reasons of Absence	Certification	Procedure
Illness/Injury	Medical certificate or	Students inform directly to
	Medical expense	lecturers
	receipts	
Bereavement	-	
leave		
Infection diseases*	Medical certificate or	Students inform to Student
	Medical expense	Affairs Division (44-6553), TUT
	receipts	office staff will report to
		lecturers.

\*TUT may admonish suspension order to prevent spread infection. Suspension order will be posted on bulletin board at A-building.

# **III** Curriculum

### 1. Classes and credits.

#### (1) Classes

Your classes are divided into General subjects and Specialized subjects. Numbers of credits are set for each subject.

For the subjects to be offered, see following pages.

See the web syllabus for details of the subjects.

#### (2) Compulsory subjects and elective subjects

- 1) Compulsory subjects are the subjects that must be completed as the requirement of the major.
- 2) Elective subjects can be selected and taken from those subjects being offered for the designated numbers of credits.

#### (3) Calculating credits

Classes those teaching type are lectures, exercise, experiments, practical or hands-on training, are offered individually or in combination among them. The class time for one credit is calculated under the following standards.

- 1) For lectures, one credit requires 15 hours of classes.
- 2) For exercises, one credit requires 30 hours of classes.
- 3) For experiments, practical or hands-on training, one credit requires 45 hours of classes.

#### (4) School term

School term is determined according to the academic year calendar, and consists of two terms; Spring term (from April 1 until September 30) and Fall term (from October 1 until March 31)

# Mechanical Engineering(Twinning Program)

					Classes	s/Week			-
Compulsory	Subject Name	Code No	Credit	Fall 1	Fall 2	Spring 1	Spring 2	Instructor	noto
Elective	Subject Name	Goue No.	S	201	2.10 -	201	3.4 -	11511 46101	note
	Seminar on Mechanical Engineering	4161004	6	201	<u>3. 3</u>	201 3	3. 9	Supervisor	
Compulsory		4101004	Ŭ						
	Thesis Research on Mechanical Engineering	4161003	6		ć	9	1	Supervisor	
	Vibration and Impact Mechanics	4163001	1					S. Kawamura	
	Deformation Processing Technology	4163002	1	1				K. Mori	
	Applied Mechanics of Materials	4163003	1			1		T. Adachi	
	Micromachining Engineering	4163004	1					T. Shibata	
	Biomechanics of Human Locomotion	4163005	1					Y. Yasuda	
	Practical Surface Analysis	4163006	1			1		Y. Takeichi	
	Joining and Surfacing of Materials	4163007	1					M. Fukumoto	
	Science and Technology of Thin Films	4163008	1				1	M. Izaki	
	Deformation and Fracture of Materials	4163009	1	1				H. Toda	
	Phase Transformation in Materials	4163010	1		1			M. Umemoto	
	Engineering Safety	4163011	1					R. Batres	
	Time-frequency Analysis and Wavelet Transform	4163012	1					Z. Zhang	
	Modeling and Analysis of Dynamical Control Systems	4163013	1					K. Terashima	
Flootivo	Robotics	4163014	1				1	N. Uchiyama	
LICCIIVE	High-Speed Mechanics and Optical Measurement	4163030	1				1	S. Suzuki	
	Applied Thermal Engineering	4163016	1	1				K. Kitamura	
	Advanced Applied Fluid Engineering	4163017	1					M. Nakagawa, H. Yanada	
	Applied Fluid Dynamics	4163018	1					T. Suzuki, N. Sekishita	
	Applied Combustion Engineering	4163019	1					S. Noda	
	Advanced Aeroacoustics	4163029	1	1				A. lida	
	Advanced Mechanical Systems Design I	4163021	2		1			Supervisor	
	Advanced Mechanical Systems Design II	4163022	2				1	Supervisor	
	Advanced Materials and Manufacturing Process I	4163023	2		1			Supervisor	
	Advanced Materials and Manufacturing Process II	4163024	2				1	Supervisor	
	Advanced System, Control and Robotics I	4163025	2		1			Supervisor	
	Advanced System, Control and Robotics II	4163026	2				1	Supervisor	
	Advanced Energy and Environmental Engineering I	4163027	2					Supervisor	
	Advanced Energy and Environmental Engineering II	4163028	2				1	Supervisor	

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# Electrical and Electronic Information Engineering(Twinning Program)

							2012.10
				Classe	es/Week		
Compulsory			Credit	Fall	Spring		
/	Subject Name	Code No.	S	2012.10	2013. 4	Instructor	note
Elective				- 2013. 3	_ 2013. 9		
Compulsory	Seminar on Electrical and Electronic Informationn Engineering	4261001	6		6	Supervisor	
	Thesis Research on Electrical and Electronic Informationn Engineering	4261002	6		9	Supervisor	
	Material Science for Electronics	4263001	2	1		T. Ishiyama, Y. Nakamura, T. Hattori, K. Hattori, H. Muto	
	Physics for Electronics	4263002	2		1	M. Fukuda, M. Inoue, A. Matsuda	
	Electrical Energy Systems	4263003	2	1		M. Nagao, H. Takikawa, Y. Sakurai, N. Hozumi	
Elective	Electrical Technology and Materials	4263004	2	1		Y. Suda, R. Inada	
	Semiconductor Physics	4263005	2	1		A. Wakahara, H. Okada	
	LSI Process	4263006	2	1		M. Ishida, K. Sawada, T. Kawano <del>,</del> Yu. Murakami	
	Information and Communication Technology	4263007	2		1	T. Ohira, H. Uehara	
	Advanced Electronic Information System	4263008	2	1		S. Ichikawa,	
	Methodology of R & D	4263009	2	1		Supervisor	

# Computer Science and Engineering(Twinning Program)

							2012.10
				Classes	/Week		
Compulsory				Fall	Spring		
/ Elective	Subject Name	Code No.	Credits	2012.10	2013. 4	Instructor	note
Elective				_ 2013. 3	- 2013. 9		
Compulsory	Seminar on Computer Science and Engineering	4361004	6	6	6	Supervisor	
Compaisory	Thesis Research on Computer Science and Engineering	4361003	6	ę	)	Supervisor	
	Technical English Presentation	4363001	2	2	2	H. Ishiguro	
	Speech and Language Processing, Advanced	4363022	2		1	S. Nakagawa, T. Akiba	
	Networking, Advanced	4363004	2	1		K. Umemura, R. Ohmura	
	Advanced Robotics and Informatics	4363005	2	1		M. Okada, J. Miura	
	Web Data Engineering, Advanced	4363023	2		1	S. Kuriyama, M. Aono	
	Computers and Education	4363008	2			K. Kawai	
	Multimodal Information Processing	4363009	2		1	K. Katsurada	
Fleeting	Image Processing, Advanced	4363010	2	1		Y. Kanazawa, Y. Sugaya	
Elective	High Performance Computing	4363011	2			H. Goto	
	Algorithm Engineering, Advanced	4363014	2	1		S. Masuyama, T. Fujito	
	Computer Systems, Advanced	4363015	2	1		R. Kobayashi	
	Quantum Biology and Materials Science	4363016	2		1	H. Sekino, N. Kurita	
	Complex Systems and Intelligent Informatics	4363017	2	1		Y. Ishida, K. Murakoshi	
	Advanced Chemoinformatics	4363021	2		1	Y. Takahashi, H. Kato	
	Bio-physical Information Systems	4363019	2			J. Horikawa, N. Fukumura	
	Advanced Topics in Brain and Cognitive Sciences	4363020	2	1		S. Nakauchi, M. Kitazaki	

# Environmental and Life Sciences (Twinning Program)

Compulsory / Elective	Subject Name	Code No.	Credit s	Fall 1 201	Classes Fall 2 2.10	s/Week Spring 1 201	Spring 2 3. 4	Instructor	note
	Seminar on Environmental and Life Science	4461004	6	201	<u>3. 3</u> (	<u>201</u> 6	3. 9	Supervisor	
Compulsory	Thesis Research on Environmental and Life Science	4461003	6		9	9		Supervisor	
Elective	Advanced Separation Chemistry I	4463001	1					Y. Saito	
	Advanced Separation Chemistry II	4463002	1					Y. Hirata	
	Special Topics in Inorganic Chemistry	4463027	1	1				N. Kakuta	
	X-ray Spectroscopy for Catalytic Engineering	4463028	1				1	T. Mizushima	
	Applied Physical Chemistry I	4463005	1					A. Matsumoto	
	Applied Physical Chemistry II	4463006	1				1	A. Matsumoto	No class will be held on and after 2016
	Advanced Polymer Chemistry	4463007	1	1				S. Itsuno	
	Advanced Polymer Engineering	4463008	1		1			E. Yoshida	
	Advanced Composite Science	4463009	1					T. Takeichi	
	Special Topics in Applied Organic Chemistry	4463010	1			1		S. Iwasa	
	Developmental Neuroscience	4463011	1					S. Yoshida	
	Advanced Molecular Life Science	4463012	1		1			Y. Kikuchi, T. Tanaka	
	Advanced Applied Biochemistry and Biotechnology	4463013	1					A. Hiraishi, T. Eki	
	Advanced Electrical and Electronic Technology for Ecological Engineering	4463014	1					S. Tanaka, Y. Hatsukade A. Mizuno, K. Takashima	
	Advanced Eco-Materials Engineering	4463016	1					H. Tsuji	
	Advanced Reaction Engineering	4463018	1			1		T. Oguchi	
	Advanced Sustainable Coordinator	4463019	1					N. Goto	
	Advanced Supercritical Fluid Engineering	4463020	1					H. Daimon	
	※ Advanced Life Science and Biotechnology I	4463021	2		1			Supervisor	
	※ Advanced Life Science and Biotechnology II	4463022	2				1	Supervisor	
	X Advanced Environmental Technology I	4463023	2		1			Supervisor	
	X Advanced Environmental Technology II	4463024	2				1	Supervisor	
	※ Advanced Environmental and Ecological Systems I	4463025	2		1			Supervisor	
	※ Advanced Environmental and Ecological Systems II	4463026	2				1	Supervisor	

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# Architrcture and Civil Engineering(Twinning Program)

						-	
				Classes	s/Week		
Compulsory /	Subject Name	Code No	Credits	Fall 2012 10	Spring	Instructor	note
Elective			oround	2012.10 - 2013. 3	2013. 4 - 2013. 9		noto
	Seminar on Architecture and Civil Engineering	4561004	6		6	Supervisor	
Compulsory	Thesis Research on Architecture and Civil Engineering	4561003	6		9	Supervisor	
	Elasticity and Stability	4563001	2			S. Yamada	
	Finite Element Method for Continua and Bar Structures	4563002	2	1		S. Nakazawa	
	Seismic Evaluation of Existing Buildings	4563003	2			T. Matsui	
	Seismic Design of Structures	4563029	2	1			TBA (new faculty member)
	Geologic Hazard and Mitigation Planning	4563004	2			M. Kawamura	
	Geotechnical Analysis	4563005	2	1		K. Miura	
	Building Science: Indoor Air Quality and Ventilation	4563006	2			H. Matsumoto	
	Building and Urban Thermal Environment	4563026	2		1	Y. Masuda	
	Coastal Hydraulics	4563009	2			S. Kato	
	Water Environment Engineering	4563027	2			T. Inoue	
	Civil Engineering Class	4563030	2		1		TBA (new faculty member)
	Computer Applications in Urban Planning	4563011	2	1		A. Ohgai	
	Human Settlement: Its History and Theory	4563012	2			H. Izumida	
Elective	Advanced Study on Housing System and Housing Policy	4563013	2		1	S. Matsushima	
	Advanced District Planning	4563014	2			J. Asano	
	Advanced Architectural Planning	4563028	2		1	Y. Kakino	
	Advanced Transportation and Traffic Engineering	4563015	2			Y. Hirobata	
	Modeling Regional Environment	4563016	2	1		Y. Miyata	
	Management of Technology	4563017	2	1		T. Fujiwara	
	Advanced Computational Economics	4563018	2			H. Shibusawa	
	X Advanced Structural System Planning and Design I	4563019	2	1		Supervisor	
	※ Advanced Structural System Planning and Design II	4563020	2		1	Supervisor	
	※ Advanced Environmental System Planning and Design I	4563021	2	1		Supervisor	
	※ Advanced Environmental System Planning and Design II	4563022	2		1	Supervisor	
	X Advanced Regional System Planning and Design I	4563023	2	1		Supervisor	
	※ Advanced Regional System Planning and Design II	4563024	2		1	Supervisor	
L	-						

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# General subjects (Twinning Program)

				Classes	s/Week		
Compulsory			Credit	Fall	Spring		
/	Subject Name	Code No.	S	2012.10	2013. 4	Instructor	note
Elective			-	-	-		
				2013. 3	2013. 9		
	Management Science	4003001	2		1	Y. Miyata, T. Fujiwara	
	Industrial Policies	4003002	2	1		H. Shibusawa	
	Environmental Planning	4003007	2			T. Hiramatsu	
Elective	Culture and Communication I	4003003	2	1		M. Kato	
	Culture and Communication II	4003004	2				
	Japanese Life Today	4003005	2		1	T. Hayashi	
	Intercultural Communication	4003006	2		1	Y. Muramatsu	

#### 2012.10

# **Course Requirement Guide Book**

(October 2012)

**Doctoral Program Given in English** 

**TOYOHASHI UNIVERSITY OF TECHNOLOGY** 

# **I** Requirements for graduation

# 1. Requirements for graduation

To complete the doctoral course, a student must participate in the course for three or more years, and must acquire the minimum credits required as follows. A student must carry out a research under a proper guidance by faculty members. Also a student must submit a doctoral thesis, and must pass the review and final exams.

Note that students showing excellent achievements may finish in a shorter study period.

Classification	No. of credits required for graduation	Remarks
Mechanical Engineering	12	4 credits in total can be substituted with
Electrical and Electronic Information Engineering	12	combination of following options , with a permission from your supervisor.
Computer Science and Engineering	12	<ol> <li>Master's subjects (except Advanced subjects and General subjects)</li> <li>Doctor's subjects in other major</li> <li>Subjects hold in Japanese (Note that</li> </ol>
Environmental and Life Sciences	12	you cannot chose a subject in Japanese when you already choose the same subject in English and vice
Architecture and Civil Engineering	12	versa)
	·	

# 2. Application for degree

Only a student who has acquired the credits required for finishing, or who is expected to acquire the credits can apply for a doctoral degree. Procedure to submit thesis for doctoral degree, etc., shall be posted at a bulletin board.

# **II** Class registration, examination, attendance period

### 1. Class registration method

Classes shall be registered according to the education schedule of your respective major.

#### (1) Making a study plan

Read this manual thoroughly, and follow the instructions and advice given during orientations at the beginning of the academic year or that given by your supervisor, and set your class schedule.

Provide enough time-allowance to your schedule.

The class timetable will be provided at the beginning of each academic year. Schedule for special intensive classes will be posted up on a bulletin board as soon as the details are fixed.

#### (2) Class registration

A student must register the classes by Dream Campus (through TUT website) during the designated date. (https://www.ead.tut.ac.jp/portal/) or by a sheet of "Application for Subjects" Those classes not registered will not be accredited in any case.

- To take Master's subjects (except Advanced topics subjects and General Courses) or Doctor's subjects in other majors, a student must obtain approval from his/her supervisor and the subject instructor with a sheet of "Application for Registration of Subjects in Other Department"
- 2) If a student does not attend the class nor take the examinations, credits will not be given even if the registration is made.
- 3) A student cannot re-register the subject for which credits are given.
- Subjects held at the same time schedule cannot be registered. Note that this does not apply for subjects being taken again by examinations only, or intensive subjects.

#### (3) Confirming and amending the registration

To confirm your class registration or to amend it, please access to Dream Campus. Please refer to the manuals of Dream Campus for how to use.

#### (4) Repeating classes

Basically, a student who has failed in a subject with regular examinations, or some other reasons, can take the same subject again in the next academic year. To repeat a subject, students must make registration again.

# 2. Examination

Examination includes regular examinations and makeup examinations.

#### (1) Regular examination

As a principle, regular examinations shall be held during the set period at the end of each term.

All students are to check the exam schedule on the academic calendar on Dream Campus (through TUT website) or bulletin board at A-bldg. Note that examination may be held at any time when found necessary by the subject instructor.

#### (2) Make-up examination

- 1) Make-up examination shall be held only when a student could not take the regular examination due to the following reasons. The student must gain the approval of the subject instructor with a sheet of "Request for makeup examination".
  - a) Illness (doctor's medical certificate must be submitted)
  - b) Accidents or disaster (certificate of proof must be submitted), and other special reasons (a letter explaining the reason must be submitted).
- 2) "Request for makeup examination" must be submitted to Academic Affairs Division within one week from the final date of regular examination.
- 3) If a student fails to take the makeup examination, further examination will not be held.

#### (3) Approval of credits and evaluation

A subject instructor shall approve the credits for the subject through.

1) Your grades are calculated according to the following basis.

Grading	Scores	Approval
A	Over 80	Units certified
В	65-79	Units certified
С	55-64	Units certified
D	Under 55	Units NOT certified

2) Results will be available on Dream Campus after the certain days of the examination.

### 3. Maximum years of attendance, etc.

#### (1) Maximum years of attendance

It is not possible for a student to be in the doctoral course at the university exceeding six years.

#### (2) Leave of absence

If a student cannot attend classes for two or more months uninterruptedly due to illness or other special reasons, the student may submit a sheet of "Request for leave of absence" to Academic Affairs Division after getting the approval from his/her supervisor and their department head. Upon approval from the President, the student may have a leave of absence (two years in total).

The period that the student is absent will not be counted in the above "(1) Maximum years of attendance".

To return to school after the end of the approved period, the student must submit a sheet of "Notification of return to school".

To return to school before the approved period due to the elimination of the reason, the student must submit a sheet of "Request to return to school" and obtain approval.

#### (3) Whithdrawal

If a student wants to withdraw from the university, the student must submit a sheet of "Request for withdrawal" to Academic Affairs Division after getting the approval from his/her supervisor and their department head. Upon approval from the President, the student may have withdrawal. Note that the tuition fee has to be paid in full even if a student withdraws in a middle of term.

#### (4) Elimination from University

A student will be eliminated from the university for folloing reasons.

- 1) Whena student exceed the period mentioned in above "(1). Maximum years of attendance"
- 2) When a student cannot return to school after the period mentioned in above "(2). Leave of absence."
- 3) When a student is died, or disappeared.
- 4) Those are approved for the admission fee half exemption or postponement and who did not pay for the admission fee before the designated period.
- 5) Those who failed to pay for the tuition and did not pay even after the warning.

## 4. Others

#### (1) Information about canceled or makeup classes

All students may need to double-check about your classes at following bulletin boards:

	information	
Locturo	Central Bulletin Board (panel board)	Class schedule change
hall at 1 <sup>st</sup> floor. A-bldg.	Electronic Bulletin Board (LCD)	Canceled or makeup classes, rescheduled notices
	Glass-covered Bulletin Board	Others
TUT website	http://annai00.gakumu.tut.ac.jp/adlight/adlightwww/conduct_list_a.asp	Canceled or makeup classes
TUT website for mobile phones	http://osirabe.net/tut/ *Mobile tagging by camera	Canceled or makeup classes

#### (2) Classes/exams in case A STORM WARNING is announced.

In case a storm warning is announced in <u>the South East Aichi Pref.</u>, TUT will conduct classes or examinations as follows:

- 1) To prevent any accident, All classes will be CANCELED
- 2) The storm warning is CLEARED <u>BEFORE AM7:00</u>, all classes are on SCHEDULE.
- 3) The storm warning is CLEARED <u>FROM AM7:00 TO AM11:00</u>, all classes STARTS on 3rd HOUR (\*1 and 2 hr. will be CANCELED)
- 4) The storm warning is still ANNOUNCED <u>AFTER AM11:00</u>, ALL classes will be CANCELED.

All cancelled classes and examinations will be rescheduled.

#### (3)Information about RESCHEDULED CLASSES/EXAMS

TUT will reschedule classes/exams canceled by natural disasters on "YOBIBI" (an optional extra day). The dates may also be used for makeup classes, students may check the schedules TWO WEEKS BEFORE THE DATES at lecture hall at A-Bldg. However, rescheduled classes (exams) due to bad weather etc. have priority on the occasional dates and scheduled makeup classes on the dates may be canceled. Double check information from TUT.

#### (4) All students will be provided TUT student mail account.

TUT recommend all students to set up e-mail forwarding service in order to receive important information of class-scheduling, grading and other communications from the university.

#### (5)Absence from classes

When you have to be absent from classes due to illness, bereavement leave or other reasons, you need to inform reasons to your subject instructor by yourself. How your absence will be dealt with is depends on the subject instructor.

Reasons of Absence	Certification	Procedure
Illness/Injury	Medical certificate or	Students inform directly to
	Medical expense	lecturers
	receipts	
Bereavement	-	
leave		
Infection diseases*	Medical certificate or	Students inform to Student
	Medical expense	Affairs Division (44-6553), TUT
	receipts	office staff will report to
		lecturers.

\*TUT may admonish suspension order to prevent spread infection. Suspension order will be posted on bulletin board at A-building.

# III Curriculum

# 1. Classes and credits.

#### (1) Classes

Your subjects are only specialized subjects. Credits are set for each subject.

For the subjects to be offered, see s following pages. See the separate booklet "SYLLABUS" for details of the subjects.

#### (2) Compulsory subjects and elective subjects

- 1) Compulsory subjects are the subjects that must be completed as your requirement for the major.
- 2) Elective subjects can be selected and taken from those subjects being offered for the designated numbers of credits.

#### (3) Calculating credits

Classes whose teaching type is lectures, seminars, experiments, practical or hands-on training, are offered individually or in combination among them. The class time for one credit is calculated under the following standards.

- 1) For lectures, one credit requires 15 hours of classes.
- 2) For exercises, one credit requires 30 hours of classes.
- 3) For experiments, practical or hands-on training, one credit requires 45 hours of classes.

#### (4) School term

School term is determined according to the academic year calendar, and consists of two terms; Spring term (from April 1 until September 30) and Fall term (from October 1 until March 31)

mecnanica	i Engineering						Ż	2012.10
				lst :	grade	2nd	3rd	
Compulsory				Fall	Spring	grade	grade	
/	Subject Name	Credits	Instructor	2012.10	2013.4	2013.10	2014.10	Note
Elective				_				
				2013.3	2013.9	2014.9	2015.9	
	Advanced Seminar on Mechanical Engineering 1	4	Supervisor		4			
Compulsory	Advanced Seminar on Mechanical Engineering 2	1	Supervisor			1		
	Seminar on Interdisciplinary Research	1				1		
	Advanced Mechanical Systems	2	S. Kawamura T. Adachi Y. Takeichi		1			
	Advanced Production Processes	2	K. Mori T. Shibata Y. Abe	1				
	Advanced Manufacturing Processes	2	M. Fukumoto T. Yasui M. Izaki S. Yokoyama		1			
	Advanced Materials Science	2	H. Toda Y. Todaka M .Kobayashi	1				
Flective	Engineering of Intelligent Robotics	2	K. Terashima S. Suzuki T. Miyoshi N. Uchiyama		1			
	Advanced Production and Instrumentation Systems	2	Z. Zhang R. Batres T. Miyake	1				
	Advanced Energy Engineering	2	K. Kitamura S. Noda T. Suzuki		1			
	Advanced Environmental Engineering	2	A. Iida N. Sekishita H. Yanada	1				

#### 14 . -

Compulsory / Elective	Subject Name	Credits	Instructor	1st g Fall 2012.10 - 2013.3	rade Spring 2013.4  2013.9	2nd grade 2013.10 _ 2014.9	3rd grade 2014. 10 - 2015. 9	Note
	Seminar on Electrical and Electronic Information Engineering 2	4	Supervisor	4	Ļ			
Compulsory Elective Compulsory Elective	Seminar on Electrical and Electronic Information Engineering 3	1	Supervisor			1		
	Seminar on Interdisciplinary Research	1				1		
	Advanced Electronic Materials 1	2	M. Inoue M. Fukuda Y. Nakamura T. Ishiyama		1			
	Advanced Electronic Materials 2	2	A. Matsuda T. Hattori H. Muto	1				
	Advanced Electrical Systems 1	2	M. Nagao H. Takikawa Y. Sakurai N. Hozumi		1			
Flootivo	Advanced Electrical Systems 2	2	Y. Suda R. Inada	1				
Flective	Advanced Microelectronics 1	2	M. Ishida K. Sawada T. Kawano		1			
	Advanced Microelectronics 2	2	A. Wakahara A. Sandhu H. Okada	1				
	Advanced Information and Communication Systems 1	2	T. Ohira H. Uehara		1			
	Advanced Information and Communication Systems 2	2	S. Ichikawa R. Kobayashi	1				

# Electrical and Electronic Information Engineering

Computer	Science	and	Engineeri	ng

2012.10	20	12.	10
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				1st grade		2nd	3rd	
Compulsory				Fall	Spring	grade	grade	
/	Subject Name	Credits	Instructor	2012.10	2013.4	2013.10	2014.10	Note
Elective				_	_	—	—	
				2013.3	2013.9	2014.9	2015.9	
	Seminer on Computer Science							
	and Engineering 1	4	Supervisor	4	4			
					-			
	Seminar on Computer Science							
Compulsory	and Engineering 2	1	Supervisor			1		
							└────┩	
	Seminar on	_				_		
	Interdisciplinary	1				1		
	Research						┟────┨	
	Computer System	2	R Kohavashi	1				
	Engineering	2	K. Kobayashi	1				
	Speech and Language		T Al-il-					
	Speech and Language	2	I. AKIDA K. Katsurada		1			
			in nationada					
	Robotics Intelligence	2	J. Miura		1			
			M. Okada		1			
			N A					
	Web Data Engineering	2	M. Aono S. Kuriyama		1			
			5. Rui i yama					
	Biological Information System Engineering	0	J. Horikawa		1			
		Δ	N. Fukumura		1			
	Brain and Noural System		C. Nalazzaki					
	Engineering	2	S. Nakauchi M. Kitazaki		1			
Elective			M. KIUZAKI					
	Computer Network Engineering	9	K. Umemura	1				
		Z	R. Ohmura	1				
	Pattern Information	2	Y. Kanazawa	1				
			1. Sugaya					
		0	H. Sekino	1				
	Molecular Simulation	2	H. Goto N. Kurita	1				
			iii Raffta					
	Advanced Molecular	2	Y. Takahashi		1			
	intormation Engineering		11. Natu					
	Advanced Complex Systems		Y. Ishida	_				
	and Intelligent	2	K. Murakoshi	1				
	Theoretical Computer	2	S. Masuyama	1				
	Science, Advanced		I. FUJITO					

Environme	ntal	and	Life	Scienc	es

				lst g	grade	2nd	3rd	
Compulsory				Fall	Spring	grade	grade	
/	Subject Name	Credits	Instructor	2012.10	2013.4	2013.10	2014.10	Note
Elective				—	—	—	—	
				2013.3	2013.9	2014.9	2015.9	
	Seminar on Environmental & Life Sciences 1	4	Supervisor	2	1			
Compulsory	Seminar on Environmental & Life Sciences 2	1	Supervisor			1		
	Seminar on Interdisciplinary Research	1				1		
	Advanced Environmental Technology 1	2	A. Mizuno S. Tanaka K. Takashima Y. Hatsukade		1			
	Advanced Environmental Technology 2	2	A. Matsumoto T. Oguchi T. Mizushima	1				
	Advanced Ecological Engineering	2	N. Kakuta N. Goto H. Daimon H. Nakano		1			
Elective	Advanced Biotechnology 1	2	T. Eki A. Hiraishi T. Tanaka		1			
	Advanced Biotechnology 2	2	E. Yoshida S. Yoshida	1				
	Advanced Molecular Function Chemistry 1	2	S. Itsuno H. Tsuji S. Iwasa		1			
	Advanced Molecular Function Chemistry 2	2	Y. Saito Y. Hirata	1				

#### Architecture and Civil Engineering

				1st g	grade	2nd	3rd	
Compulsory				Fall	Spring	grade	grade	
	Subject Name	Credits	Instructor	2012.10	2013.4	2013.10	2014.10	Note
Elective				- 2013. 3	 2013. 9	 2014. 9	 2015. 9	
	Seminor on							
	Architecture and Civil	4	Supervisor	2	4			
	Enigneering l							
Commulation	Seminor on	1	C			1		
Computsory	Enigneering 2	1	Supervisor			1		
	Seminor on							
	Interdisciplinary	1				1		
	Research							
	Advanced Mechanics and		0 W 1					
	Design of Spatial	2	S. Yamada S. Nakazawa	1				
	Structure Systems		0. Nakazawa					
	Advanced Structural	2	New Faculty Member	1				
	Design		I. Matsul					
	Advanced Bluilding							
	Environmental	2	H. Matsumoto		1			
	Building Services		I. Masuda					
	Advanced Theory in	2	S. Matsushima	1				
	Architectural Design	-	Y. Kakino	1				
	Advanced History of	2	H Izumida	1				
	Archircture	2	II. IZumiua	1				
	Sustainable Urban	0	A. Ohgai			1		
	Planning	Z	J. Asano			1		
Elective								
	Advanced Geologic	_	M. Kawamura					
	Hazard Mitigation Planning	2	K. Miura	1				
	Advanced Water		T. Inoue					
	Environmental	2	S. Kato	1				
	Lingineering		New Faculty Member					
	Advanced		Y. Hirobata					
	Transportation Systems	2	Y. Miyata		1			
	and Economics		H. Shibusawa					
			V W					
	Advanced Environmental Economics and Planning	2	Y. Miyata T. Hiramatsu	1				
	A 1 1 W		<b>T D C</b>					
	Advanced Management of Technology	2	I. Fujiwara H. Shibusawa		1			
	Advanced Western	2	K. Aikyo		1			
	Curture		n. Tamufa					