can play a central role in solving such challenges, this program offers a curriculum in which students can learn systematically and extensively, from basic knowledge such as quantum physics and basic semiconductor physics, to the latest research such as high performance electronic devices in nanometer size and high-functioning integrated circuit systems.

The following are the characteristics of the Program of Electronic Devices and Systems.

- (1) Class subjects are arranged to make it possible for students to learn in order the subjects related to each of the fields, physics and materials, semiconductor devices, and integrated systems. Class subjects are also arranged so that the association of subjects in each field is taken into consideration.
- (2) Entry-level subjects and introductory subjects in each field (Introduction to Physical Electronics, Introduction to Semiconductor Devices and Circuits) have been prepared for the second year. Consideration has been given to ensuring that students can see the whole picture in the specialized subject groups that they study. On the other hand, a variety of specialized subjects, including the most advanced science and technology, are offered in the second semester of the third year.
- (3) Subjects concerning physics and solid state physics, which form basis of materials and semiconductor devices, have been designed so that students can learn the basic principles necessary for innovative technological development. Students can also systematically learn the design engineering of integrated circuits from the basics of electrical and electronic circuits to the latest integrated circuits.
- (4) This program focuses on acquisition of knowledge, and technical and research ability, in relation to actual

research have been set, such as the manufacture of functional materials, the evaluation of physical properties, the manufacture of new functional devices and semiconductor devices in nanometer size, algorithms utilizable in actual systems, and the design and prototype of integrated circuits.

- (5) In collaboration with other programs, students can learn subjects concerning electric energy, electronic control, signal processing, and software.
- 3. Academic Awards Policy (Goals of the Program and Policy for Awarding Degrees)

The Program of Electronic Devices and Systems offers an education that emphasizes the field of physical properties and materials, which forms the basis for new devices, the field of high performance semiconductor devices in nanometer size, and the field of integrated systems, centering on high performance integrated circuits. By providing both the basic concepts and cutting edge knowledge in each field, and by identifying the mutual relationships between the fields in a systematic manner, this program aims at developing professionals who can take the lead in engineering development in the electronic engineering field and who have the ability to develop innovative technology by fusing together the different fields, which will be of growing importance in the future.

Specifically, this program offers education aimed at cultivating a broad range of general knowledge, an international perspective which aspires to peace, a general sense of judgment, and a well-rounded character.

ee in engineering to students who, in addition to the number of credits necessary to meet the standard of the course, have acquired the liberal arts education and specialized education necessary to prepare them for achieving the following goals:

- [Goal A] Acquisition of the ability to recognize the relationship between science and technology, and humankind, society, and the natural environment, from various perspectives, and the ability to understand the responsibilities engineers have for society.
- [Goal B] Acquisition of the basic knowledge commonly required in the field of electronic systems and the abilities applicable to the field.
- [Goal C] Acquisition of the ability to analyze given challenges by using expertise, and draw solutions that meet the requirements of society.
- [Goal D] Acquisition of the ability to draw up plans and measures to resolve challenges, and the will to carry these measures out.
- [Goal E] Acquisition of the ability to gather information and to communicate in Japanese and English. Acquisition of the ability to sum up one's thoughts and accomplishments, to write logically, and to give a presentation.
- 4. Curriculum Policy (Policy for Preparing and Implementing the Curriculum)

 The Program of Electronic Devices and Systems prepares and implements a curriculum that provides

the following knowledge and abilities so that students are able to achieve goals A to E listed above.

Academic achievement is evaluated based on the grade calculation for each subject and the level of attainment of the goals established by education program.

- OKnowledge/Understanding
- Cultivation of the understanding of society-technology relations and the ethical outlook necessary for an engineer (Goal A). This is obtained through mastery of liberal arts education
- Basic knowledge of mathematics, such as differential and integral calculus, and linear algebra, required by scientists and engineers (Goal B). This is obtained through mastery of such basic subjects as
- · Basic knowledge of physical theory and experimental methods required by scientists and engineers (Goal B).
- General understanding and acquisition of knowledge about technologies in the field of electronic systems, and acquisition of the basic knowledge common to this field (Goal B).

OAbilities/Skills

• The mathematical methodology required by experts in the field of electronic systems (Goal B). This is obtained fered during the period from

the third or fourth term of the first year through the second year.

- The concepts, knowledge, and methodology that form the foundation of the field of electronic systems (Goal B). This is obtained through mastery of specialized subjects to be offered during the period from the third or fourth term of the first year through the third year.
- The ability to apply basic concepts, knowledge, and methodology in the field of electronic systems to concrete, professional issues (Goal B). This is obtained through mastery of specialized subjects to be offered during the period from the third or fourth term of the first year through the third year.
- •The ability to resolve problems and challenges by using experiments to solve practical problems, by using methods of numerical calculation, and by gathering relevant data (Goal D). This is obtained through mastery of basic

the period from the first or second term of the second year through the third year.

adjustments and resolve problems and challenges by using basic and specialized knowledge and methods (Goal

OComprehensive Abilities

- Creative and logical thinking to analyze practical problems and challenges, and to reach rational solutions that meet the requirements of society, as well as the engineering development abilities to physically realize such solutions (Goal C, D).
- The ability to organize research results and write logically, including regarding the significance and validity of the obtained outcomes, and to present these research outcomes and discuss them verbally and in an easy-to-understand manner (Goal E). This is o fourth year.
- The teamwork, leadership, and communication abilities needed to work in a group (Goal E). These are obtained

during the period from the second year through the third year.

• The ability to take an approach to solving various problems after understanding that such problems that exist in humankind, society, and among individuals can be interpreted in various ways depending on social conditions,

· The ability to read, write, converse, and retrieve information in the English language necessary for conducting

5. Program Timing and Acceptance Conditions

At the beginning of the second year, students are assigned to this program based on consideration of their request and academic results. In order to be assigned to this program, students must acquire a total of 34 or more credits in liberal arts education subjects and specialized education subjects by the end of the first year.

6. Qualifications to be Acquired

By mastering the predetermined courses, students can obtain Type-1 High School Teaching License (Industry). Besides that, by mastering the predetermined class subjects, students are exempted from the examination subjects of the national exams for electrical chief engineers, chief telecommunications engineers and technical radio operators. The details are given in student handbook.

7. Class subjects and course content

- * For class subjects, see the course list table on the attached sheet.
- * For course content, see the syllabus for each academic year.

8. Academic Achievements

At the end of each semester, the evaluation criteria are applied to each evaluation item of academic achievement to lculation for each subject from admission to the

calculated by adding the weighted values to the numerically-converted values of their academic achievements (S = 4, A = 3, B = 2, and C= 1) in each subject being evaluated.

Evaluation of academic	Converted
achievement	values
S(Excellent: 90 points or higher)	4
A(Superior:80-89 points)	3
B(Good: 70-79 points)	2
C(Fair: 60-69 points)	1

Academic achievement	Evaluation						
	criteria						
Excellent	3.00~4.00						
Very Good	2.00~2.99						
Good	1.00~1.99						

- * See the relationship between evaluation items and evaluation criteria in the attached sheet 2.
- * See the relationship between evaluation items and class subjects in the attached sheet 3.
- * See the curriculum map in the attached sheet 4.

9. Graduation Thesis (Graduation Research) (Positioning, When and how to be assigned, etc.)

Graduation work aims at imparting general research skills by conducting research in line with the research agenda

established for each student. The following are more concrete goals:

- 1. The acquisition of the ability to make a research plan based on the research agenda and execute the research in accordance with the plan
- 2. The acquisition of the ability to collect materials related to the research agenda, demonstrate a deep understanding of the research agenda, and identify problems
- 3. The acquisition of the ability to analyze the problems in the research agenda and reach solutions in accordance with the requirements of society
- 4. The acquisition of the ability to read, write, converse, and retrieve information in the English language

necessary for conducting research

- 5. The acquisition of the ability to organize research results and write in coherent sentences the significance and validity of the obtained outcomes
- 6. The acquisition of the ability to present the research outcomes and discuss them verbally in an easy-to-understand manner

The requirements for embarking on a graduation thesis are as described in student handbook.

Students in the fourth year or over, who satisfy the requirements for embarking on a graduation thesis, are to be assigned as requested. How adjustments are made in relation to assignment is explained to the applicable students at

a briefing held in advance. A briefing session about research topics or an open laboratory is held around the time from

February to April for students who are to be assigned to the research laboratory and to the program.

10. Responsibility System

This program is operated by teachers who support the Program of Electronic Devices and Systems, however, the program targets students who belong to Cluster 2 and, therefore, the person responsible for executing the program is the Cluster 2 leader. Planning, implementing, evaluation, and handling are discussed mainly in the Cluster 2 Education Program committee and in the Cluster 2 committee (held, in principle, on the first Wednesday of every month) in an appropriate manner. Depending on the situation or content, a working group is established at the instruction of the Cluster leader to focus in the issues at hand.

When there is a need to consider the response on a program basis, research laboratory groups responsible for the applicable program take the necessary measures. In that case, the responsible person is appointed by the Cluster leader.

(2) Program assessment

- Whether or not each class subject is properly allocated in light of the goals of the program, and whether course content is appropriate
- · Whether or not students taking the course have one average achieved the goal or above
- Whether or not the system runs in proper cycles that enable the program to continually improve in an upward spiral
- Conducting self-assessment for each subject based on the results of class evaluations carried out by students who have taken the course, and also based on grade calculation results
- Regarding the upward spiral of the program, obtaining the questionnaire from graduates in suitable cycles and also collecting the needs from business corporations

Position on giving feedback to students and how it is approached

- For individual courses, the teacher in charge gives comments on course evaluation results and academic achievement results.
- For re-examining the program structure, the reasons for and the purposes of re-examination are given on the website.

Cluster 2 (Electrical, Electronic and Systems Engineering)

- © Required subject (period of registration specified)
- \bigcirc Compulsory elective subject (any of these subjects shall be registered)
- \triangle Free elective subject (any of these subjects shall be registered)

		Require Require Require No of the subject is taken (**The subject is taken										lower figure													
	S	uk	oject	Тур	oe	d No. of	Class subjects, etc.	No. of	course			grad		2	nd g	grad			rd g				th g		
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	Basic Courses in University Education	Ir U	ntrod Inive		n to Education	2	Introduction to University Education	2	Required	0															
	Basic Courses Univers Educati	Ir fo	ntrod or Fir		ry Seminar ear	2	Introductory Seminar for First-Year Students	2	Required	0															
			rea C	ours	200	4	Courses in Arts and Humanities/Social Sc	2	Compuls	0		0													
		Λ	iea C	Jours	505	4	Courses in Natural Sciences	2	elective		0		0												
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					Communic	2	CommunicationIA	1	Required	0	0														
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							CalculusII	2					0												
							Linear AlgebraI	2		0															
							Linear AlgebraII	2				0													
		B	asic S	Subie	ects	16	Seminar in Basic Mathematics I	1	Required		0														
				, 0		10	Seminar in Basic Mathematics II	1					0												
						General Mechanics I	2		0																
							General Mechanics II	2				0													
	1						Experimental Methods and Laboratory Work in Physics I (Note 5)	1				0													
							Experimental Methods and Laboratory Work in Physics II (Note 5)	1	Free				0										\dashv		
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Ш	140. UI		gradı		-	48																			

- Note 1: When students fail to acquire the credit during the term or semester marked with \odot , \bigcirc , \triangle in the boxes for the year in which the course is taken, they can take the course in subsequent terms or semesters. Depending on class subject, courses may be offered in semesters or terms different from those scheduled. Please be sure to check the time schedule for Liberal Arts Education subjects
- Note 2: The credit obtained by mastery of "English speaking Countries Field Research" or self-directed study of "Online Seminar in English A B" cannot be counted towards the credit necessary for graduation. The credit obtained by Overseas Language Training can be recognized as Communication I, II, or III if application is made in advance. For more details, please refer to the article on English in Liberal Arts Education in the student handbook.
- Note 3: We have a recognition of credit system for foreign language proficiency tests. For more details, please refer to the article on English in Liberal Arts Education in the student handbook.
- Note 4: Students must take "Elements of Information Literacy" provided in the first semester. You can take the "Exercise in Information Literacy" provided in the second semester only if you fail to obtain credit for "Information Utilization Basics."
- Note 5: Students must take both \lceil Experimental Methods and Laboratory Work I (1credit) \rfloor and \lceil Experimental Methods and Laboratory Work II (1credit) \rfloor .
- Note 6: You should take subjects from fields other than the Natural Science field. Credits that have been obtained by taking Communication Basics can be included in this subject type.

Academic Achievements in Electronic Devices and Systems Program The Relationship between Evaluation Items and Evaluation Criteria

Academic Achievements			Evaluation Criteria										
		Evaluation Items	Excellent	Very Good	Good								
ing	(1)	e	Sufficiently understand relations between society and technology, and be able to behave with a sufficient sense of ethics.	Understand relations between society and technology at the standard level, and be able to behave with a standard sense of ethics.	Marginally understand relations between society and technology, and be able to behave with a minimum sense of ethics.								
Knowledge/Understanding	(2)	Basic knowledge of mathematics such as calculus and linear algebra, which is required for scientists/engineers.	Acquire and be able to utilize sufficient basic knowledge of mathematics such as calculus and linear algebra.	Acquire and be able to utilize standard basic knowledge of mathematics such as calculus and linear algebra.	Acquire and be able to utilize minimum basic knowledge of mathematics such as calculus and linear algebra.								
owledge/U	(3)	Basic knowledge of theories and experimental methods of physics, which is required for scientists/engineers.	Acquire and be able to utilize sufficient basic knowledge of theories and experimental methods of physics.	Acquire and be able to utilize standard basic knowledge of theories and experimental methods of physics.	Acquire and be able to utilize minimum basic knowledge of theories and experimental methods of physics.								
Kn	(4)	Comprehensive understanding and knowledge of technologies in electronics engineering. Also, basic knowledge which is common in these fields.	Sufficiently acquire and be able to utilize general, common and basic knowledge of electronics engineering.	Marginally acquire and be able to utilize general, common and basic knowledge of electronics engineering.									
	(1)	Mathematical methods required for professionals in electronics engineering.	Sufficiently acquire and be able to utilize mathematical methods which are required for professionals in electronics engineering.	Acquire and be able to utilize mathematical methods which are required for professionals in electronics engineering, at the standard level.	Marginally acquire and be able to utilize mathematical methods which are required for professionals in electronics engineering.								
ls.	(2)	Concepts, knowledge and methods which are the basis for studies related to electronic engineering.	Sufficiently acquire and be able to utilize concepts, knowledge and methods which are the basis for studies related to electronics engineering.	Aquire and be able to utilize concepts, knowledge and methods of electronics engineering, at the standard level.	Marginally acquire and be able to utilize concepts, knowledge and methods which are the basis for studies related to electronics engineering.								
Abilities/Skills	(3)	Ability to apply basic concepts, knowledge, and methods of electronics engineering to concrete/technical problems.	Acquire and be able to utilize sufficient abilities to apply basic concepts, knowledge and methods of electronics engineering to concrete/technical problems.	Acquire and be able to utilize standard abilities to apply basic concepts, knowledge and methods of electronics engineering to concrete/technical problems.	Acquire and be able to utilize marginal abilities to apply basic concepts, knowledge and methods of electronics engineering to concrete/technical problems.								
Ab	(4)	Ability to solve practical issues and problems by conducting experiments, using numerical computation methods, and collecting relevant materials.	Acquire and be able to utilize sufficient abilities to solve practical issues and problems by conducting experiments, using mathematical methods, and collecting relevant materials.	Acquire and be able to utilize standard abilities to solve practical issues and problems by conducting experiments, using mathematical methods, and collecting relevant materials.	Acquire and be able to utilize marginal abilities to solve practical issues and problems by conducting experiments, using mathematical methods, and collecting relevant materials.								
	(5)	Ability to solve practical issues and problems by voluntarily making a plan, revising it, and utilizing basic and technical knowledge and methods.	Acquire and be able to utilize sufficient abilities to solve practical issues and problems by voluntarily making a plan, revising it, and utilizing basic and technical knowledge and methods.	Acquire and be able to utilize standard abilities to solve practical issues and problems by voluntarily making a plan, revising it, and utilizing basic and technical knowledge and methods.	Acquire and be able to utilize marginal abilities to solve practical issues and problems by voluntarily making a plan, revising it, and utilizing basic and technical knowledge and methods.								
	(1)	Creative thinking ability and logical thinking skills- to analyze practical problems and tasks, and to lead to rational solutions satisfying social needs, as well as technical development skills to physically realize the solutions.	Sufficiently accuire and be able to utilize logical thinking skills to lead to rational solutions satisfying social needs and technical development skills to phisically realize the solutions.	Accuire and be able to utilize logical thinking skills to lead to rational solutions satisfying social needs and technical development skills to phisically realize the solutions, at the standard level.	Marginally accuire and be able to utilize logical thinking skills to lead to rational solutions satisfying social needs and technical development skills to phisically realize the solutions.								
bilities	(2)	Skills to organize research results and to describe them logically including the significance and the effectiveness of the obtained outcomes as well as to make easy-to-understand oral presentations and discussions.	Acquire and be able to utilize sufficient skills to organize research results and to describe them logically including the significance and the effectiveness of the obtained outcomes as well as to make easy-to-understand oral presentations and discussions.	Acquire and be able to utilize standard skills to organize research results and to describe them logically including the significance and the effectiveness of the obtained outcomes as well as to make easy-to-understand oral presentations and discussions.	Acquire and be able to utilize marginal skills to organize research results and to describe them logically including the significance and the effectiveness of the obtained outcomes as well as to make easy-to-understand oral presentations and discussions.								
Comprehensive Abilities	(3)	Teamwork, leadership and communication skills in group works.	Sufficiently acquire and be able to utilize the teamwork, leadership and communication skills for presentations and discussions through solving issues in group works.	Acquire and be able to utilize the teamwork, leadership and communication skills for presentations and discussions through solving issues in group works, at the standard level.	Marginally acquire and be able to utilize the teamwork, leadership and communication skills for presentations and discussions through solving issues in group works.								
Comp	(4)	Ability to understand that various problems, which humanity, society, and individuals are facing, can be interpreted variously depending on social status, culture and so on, as well as to deal with those problems to solve.	Sufficiently acquire and utilize skills to fully understand that various problems, which humanity, society, and individuals are facing, can be interpreted variously depending on social status, culture and so on, as well as to deal with those problems to solve.	society, and individuals are facing, can be interpreted variously depending on social status,	Marginally acquire and utilize skills to minimally understand that various problems, which humanity, society, and individuals are facing, can be interpreted variously depending on social status, culture and so on, as well as to deal with those problems to solve.								

	Academic Achievements	Evaluation Criteria								
	Evaluation Items	Excellent	Very Good	Good						
(5)	Ability of English conversation, reading and writing skills necessary for research accomplishment.	Sufficiently acquire and be able to utilize the ability of English conversation, reading and writing skills necessary for engineers.	conversation, reading and writing skills necessary	Marginally acquire and be able to utilize the ability of English conversation, reading and writing skills necessary for engineers.						

Placement of the Liberal Arts Education in the Major Program

Liberal Arts Education in this program assumes the role of establishing the academic foundation on which the specialized education for Cluster 2 in the School of Engineering is built. It fosters a willing, self-reliant attitude and cultivates scientific thinking based on data gathering ability, analytical ability, and critical thinking ability. It establishes an outlook that makes it possible to provide insight on the inner nature of things and their background from a broad perspective, and enhances linguistic ability to a level appropriate for living as a world citizen, and also strengthens interest in peace and the ability integrates a broad range of knowledge into a body of knowledge that will be truly useful in solving problems. It cultivates the ability to explore and promote cross-disciplinary and comprehensive research that goes beyond the established frameworks.

Cluster 2 Basic Specialized Subjects

		cou regist	ration							Clas	ss Ho	urs/V	Veek							
	dits	Electrical, Systems and Information Engineering	Electronic Devices and Systems	18	st g	grac	de	2	nd §	grad	le	3	rd g	grad	le	4t	th 8	gra	de	N. I.
Class Subjects	Credits	Electrical, S	ctronic D	Spr	ing	Fall		Spring		Fall		Spr	ring	g Fall		Sprin		F	all	Note
		I	Elé	1T	2Т	3Т	4T	1T	2T	3Т	4T	1T	2T	3T	4T	1T	2T	ЗΤ	4T	
Applied Mathematics I	2	0	0			4														
Applied Mathematics II	2	\circ	0					4												
Applied Mathematics III	2	0	0						4											
Discrete Mathematics I	2	0							4											(School of Informatics and Data Science)
Synthesis of Applied Mathematics	2	0	0							4										
Engineering Mathematics A	2	Δ										4								
Engineering Mathematics C	2	Δ	0								4									
Probability and Statistics	2	0	Δ					4												
Technical English	1	0	0											4						
Introduction to Energy and Information Systems	2	0	0				4													
Electric Circuit Theory I	2	0	0			4														
Programming I	2	0	0					2	2											
Programming II	2	0	0							2	2									
Programming III	2	Δ										2	2							(School of Informatics and Data Science)
Basic Experiments in Electrical Engineering I	2	0	0					10	10											take classes at one of the terms
Basic Experiments in Electrical Engineering II	2	0	0							10	10									take classes at one of the terms
Experiments in Electrical Engineering Electronics and System Engineering I	2	0	0									10	10							take classes at one of the terms
Experiments in Electrical Engineering Electronics and System Engineering II	2	0	0											10	10					take classes at one of the terms

1T 2T 3T 4T 1T 2T 3T 4T 1T 2T 3T 4T 1T 2T 3T 4T

Electromagnetism I	2	4
Electromagnetism II	2	4
Exercise of Electromagnetism I	1	2
Exercise of Electromagnetism II	1	2
Electromagnetic Wave Propagation	2	4
Introduction to Physical Electronics	2	P1 E2 24 E0 8 6 EM

Book books with a regarded and south the selection between programming of the control of the con	(Surriculum Map of Electronic Devi	ces and Syste	ems						Sheet 4
Section and embedded and the relations becomes the control of the					2nd	grade	3rd	grade	4th	grade
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Programming	1		Seminar in Basic Mathematics I	Seminar in Basic Mathematics II						
Section Complete for contraction processes	do/	Basic knowledge of theories and experimental methods of	General Mechanics I	General Mechanics II						
Programming Company	10			Experimental Methods and Laboratory Work in Physics I- II						
Secondary and includes requirements, show looking and methods requirements, show ledge and methods are compared to the location of the compared to the compa	Š									
Mathematical in these fields. Applied Mathematical Information in these fields. Applied Mathematical Information of the professionals in electronics engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods which are the basis for engineering. Concepts, Incarriedge and methods of electronics engineering. Concepts, Incarriedge and methods of electronics on protection in concepts, incorrected polaries. Concepts, Incarriedge and methods of electronics on protection in concepts, incorrected polaries. Concepts, Incarriedge and methods of electronics on protection in concepts, incorrected polaries. Concepts, Incarriedge and methods of electronics engineering to concepts, incorrected polaries. Concepts, Incarriedge and methods of electronics engineering to concepts, incorrected polaries. Concepts, Incarriedge and methods of electronics engineering to concepts, incorrect polaries. Concepts, Incarriedge and methods of electronics engineering to concepts, incorrect polaries. Concepts, Incarriedge and methods of electronics engineering to concepts, incorrect polaries. Allity to neither polaries and problems by one delectronics engineering to concepts, incorrect polaries. Concepts, Incarriedge and methods of electronics and problems are depend	×								_	
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Mally to apply hasic concepts, knowledge, and methods of electronics engineering to concretely-checking application of the control of the concepts of the conc	-	knowledge which is common in these nerds.	-	Applied Meshermetics I	Annillad Mashamatica II					
Programming II Rectmonagenering Rectmonagener		Mathematical methods required for professionals in		Applied Mathematics I					+	
Pogramming Pogramming Rectorogangeming Rect		electronics engineering.				Engineering Mathematics C			+	
Description						Programming II	Thermodynamics and Statistical Mechanics	Roboties		
Concepts, knowledge and methods which are the basis for adultion related to electronics engineering. Concepts, knowledge and methods which are the basis for adultion related to electronics engineering.							Solid State Physics	RODOLICS		
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Concept, knowledge and methods which are the basis for studies related to electronics engineering. Concept Theory III Concept Theo							, the same and the same			
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