

添付資料 7. 供与機材故障、修理状況

添付資料 8 予算

トルコ側による予算実績及び今年度計画表

No.	予算コード、予算項目	(単位 TL)					
		1987 (10~12月)	1988 (1~12月)	1989 (1~12月)	1990 (1~12月)	1991	TOPLAM
1	100 給与	71,261,692	116,897,768	376,672,312	1,161,610,176	405,046,370	1,755,944,918
2	200 旅費	761,000	1,003,675	2,429,339	4,257,000	403,900	8,451,014
3	300 通信費他	351,466	1,661,310	9,800,620	30,800,000	1,500,000 (6,000,000)	41,112,796
4	400 消耗品他	15,931,629	42,626,906	87,458,027	169,000,000	10,600,000 (215,500,000)	351,719,562
5	500 備品	4,997,592	2,088,730	4,987,500	1,150,000	150,000 (650,000)	12,173,822
6	600 実習機材	1,865,742	4,500,002	4,970,000	4,000,000		18,335,744
7	700 建設費他	56,982,400	315,533,728	559,104,637	289,000,000		1,211,920,465
8	900 戻鏡手当	5,642,455	9,922,500	14,396,704	29,610,073	11,359,673	59,531,729
	TOPLAM	160,299,676	505,734,619	1,019,918,566	4,689,427,249	78,159,943	8,167,596,080

解説

- No. 1 (給与) 給料、授業手当 (C/P: 週20H以上→2,500/H手当支給、上限プラス27Hまで。一般科目教師: 週15H以上2,500/H手当、上限プラス15Hまで)、諸手当 (医療費、薬代他)
給与は毎年7月と1月の年2回ベースアップが行われる。教育省イスタンブール支局が管理。学校側からは毎月計算書を支局へ提出する。そのあと支局から学校の銀行口座へ振込まれる。
給料改定率が未定で、かつ教員数も若干変化するので、年間予算の予想はできない。405,046,370TLは1~4月までの支払額。
- No. 2 (旅費) 国内旅費、公務出張の命令権者はイイギュン局長。403,900TLは1~4月までの支払額 (1件のみ)
- No. 3 (通信費他) 電話、郵便、税関引取費用、コピー機 (校長室設置分のみ)、(青い) ミニバス及び供与機材保守修理費、屋根、窓他補修
今年度分として学校は教育省に130,000,000TL申請したのに対して、7,500,000TL認められた。1,500,000TLは省から学校へすでに送金があったが、残り6,000,000TLは今後送金される見込み。
- No. 4 (消耗品他) 実習消耗品、事務用品、石炭、燃料、電気、水、せっけん洗剤
学校側は430,000,000TL申請。それに対して255,500,000TL認められた。その内今まですでに40,000,000TL配賦され、残り215,500,000TLは今後送金される予定。
- No. 5 (備品) 生徒用ロッカー、事務機器 (タイプライター他)、消火器
800,000TLが今年度分として認められ、これまで150,000TL送金されて来た。
- No. 6 (実習機材) 実習機材購入
基本的にプロジェクト校であり、日本側から機材供与が行われるとの前提で、この項目での予算は本校には少額しかない。予算要求は年度当初までにはではなく、必要が生じた時に本省と交渉することになっている。
- No. 7 (建設費他) (改築) 工事 (教室、実習場)、施設補修 (ペンキぬりかえ、床材強化、カーペット敷き他)
この項目についても、都度、イスタンブール支局を通じて本省に申請、教育省は調査-見積り-承認後イスタンブール支局へ送金。支払い行為は学校側ではなく、同支局が行う。
- No. 8 (戻税手当) 学校職員の申請により、毎月支払い済みのKDV (付加価値税) に対し

て一定の割合で払戻しが行われる。11,359,673TLは1～4月までの合計額。

上表以外に、現在進行中の工事（教員住宅、体育館等）は、特別予算扱い。学校が直接ではなく、イイギョン局長名でSPO（企画庁）へ教育省から予算要求する。今年度の承認額は不明。

添付資料 9. ミニッツ及び協力期間延長要望書

OPINIONS OF THE GENERAL DIRECTORATE OF INDUSTRIAL AND
VOCATIONAL EDUCATION CONCERNING EXTENSION OF THE
IMPLEMENTATION OF THE TECHNICAL COOPERATION FOR THE
ISTANBUL-TUZLA VOCATIONAL AND TECHNICAL HIGH SCHOOL PROJECT

Implementation of the project is being carried out successfully since 1987 in accordance with the Schedule of (A/D) with the utmost efforts and success of Japanese experts.

Turkey initiated to use computers both in schools and industry in an accelerated manner.

These training institutions and enterprises are establishing computer systems, and the number of systems are increasing rapidly. But, the number of qualified technical personnel to operate these systems is not increasing accordingly. The requirement of trained personnel in this area is growing further.

Istanbul-Tuzla Vocational and Technical High School Project which has modern laboratories using advanced technologies is the first project to teach computer sciences particularly.

The graduates of this project possess special features to meet the needs of middle level technical manpower for state and private owned institutions and enterprises. The main source of computer science training is the Computer Department of Istanbul-Tuzla Vocational and Technical High School. This Department is leading in rank among the departments of other schools.

It is, therefore, planned to use Computer Department of the project school for in-service teacher training and training of engineers and technicians who are working in industry.

Furthermore, to get the work and service environment of Turkey acquainted with the project and Japanese technology, and in order to make use of this technology effectively, it will be useful to extend the project for a duration of three (3) years and continue the Turkish-Japanese Technical Cooperation activities.

May 30, 1991




Mehmet İYİGÜN
General Director
Industrial and Vocational Education
Ministry of National Education

MINUTES OF DISCUSSIONS
 BETWEEN THE JAPANESE TECHNICAL GUIDANCE TEAM
 AND
 THE AUTHORITIES CONCERNED OF THE GOVERNMENT OF TURKEY
 FOR
 THE ISTANBUL-TUZLA VOCATIONAL AND TECHNICAL HIGH SCHOOL PROJECT

The Japanese Technical Guidance Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Tadasi TERAOKA, visited the Republic of Turkey from 26th May to 5th June, 1991 and had a series of discussions with the authorities concerned of the government of the Republic of Turkey (hereinafter referred to as "The Turkish Authorities") on the implementation of the technical cooperation for the Istanbul-Tuzla Vocational and Technical High School Project (hereinafter referred to as "The Project").

As a result of discussions, both sides agreed to refer the matters indicated in the document attached hereto to the respective governments.

ANKARA, 30th May, 1991



Mr. Tadashi TERAOKA
 Leader
 Technical Guidance Team,
 Japan International Cooperation Agency
 JAPAN



Mr. Mehmet IYIGUN
 General Director
 Industrial and Vocational
 Education,
 Ministry of National Education
 The Republic of TURKEY

THE ATTACHED DOCUMENT

ATTENDANTS

[Turkish side]

1. Mr. Mehmet IYIGUN

General Director, Industrial and Vocational Education ,
Ministry of National Education

2. Mr. Turgut SANAL

Deputy General Director , Personnel

3. Mr. Cengiz ISSEVER

Head of Department, General Directorate of Industrial
and Vocational Education

4. Dr. Necmettin YESILMEN

Expert, General Directorate of Industrial and Vocational
Education

5. Mr. Birol KALKAN

Chief of Investment and Building Facilities Department

6. Mr. Kadir CETIN

Section Director of General Directorate of Higher Education,
External Relations and Studies Abroad

7. Mr. Yucel YUKSEL

Project Manager, Tuzla Vocational and Technical High School

[Japanese side]

1. Mr. Tadashi TERAOKA

Deputy Director, Overseas Cooperation Division

Human Resources Development Bureau

Ministry of Labour

2. Mr. Hiroyuki MOCHIKI

Instructor, Electronics Technical
Division, Miyagi Polytechnic College,
Employment Promotion Corporation

3. Mr. Masanori NAKAYAMA

Technical Specialist, Vocational
Training Installation Division, Department of
Guidance on Human Resources Development
Employment Promotion Corporation

4. Mr. Isao TAKAHASHI

Second Technical Cooperation Division, Social Development
Cooperation Department
Japan International Cooperation Agency

{Observers}

1. Mr. Hiromichi SUZUKI

Project Leader, Istanbul-Tuzla Vocational
and Technical High School

2. Mr. Kozo DATE

Project Coordinator, Istanbul-Tuzla Vocational
and Technical High School

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SUMMARY OF THE MEETING

1. Both sides shared an understanding that the Project, in general, has been successfully implemented in accordance with the Tentative Schedule of Implementation of the Record of the Discussions dated 7th July, 1987 (hereinafter referred to as the "R/D").
2. The Team appreciated that the Turkish Authorities had made the following efforts:
 - (1) The construction work of a multi-purpose auditorium and classrooms has already been started.
 - (2) The customs clearance of machinery and equipment sent by the Japanese Government has become smoother and quicker than before.
3. For smooth implementation of the Project, the Team requested the Turkish Authorities to take the following measures:
 - (1) Although twenty-four (24) C/P and one (1) teacher on a temporary basis are presently assigned, the number of C/P is still insufficient in the light of R/D.
It is therefore requested that seven (7) more C/P with a good command of English and at least three (3) years of teaching experience in the vocational and technical training be assigned.
 - (2) It is necessary for the successful implementation of the Project to secure well-trained C/P, so the economic conditions and the welfare of C/P assigned to the Project should be improved.

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It is suggested that the salary of C/P be raised, and that the ten (10) staff houses be made available to C/P as soon as possible.

Moreover, it is advised to start the construction work of the additional twenty (20) staff houses.

(3) The Istanbul-Tuzla Vocational and Technical High School is to receive more new students in the coming September, so the construction work of a multi-purpose auditorium and classrooms should be quickened.

(4) More computers are planned to be granted by the Japanese Government in the Japanese Fiscal Year 1991, so it is necessary that a computer-installed room be newly secured.

(5) In order to give necessary maintenance to the machinery and the equipment, especially the computers, donated by the Japanese Government, the contract for the maintenance should be arranged by the Turkish budget.

(6) The Turkish side is requested to allocate the necessary amount of the budget for consumption materials used at the workshops.

(7) To make communications between the Project and the Ministry of National Education more effective, it is suggested that the Turkish Authorities and the Japanese experts have the meetings periodically, preferably about once a month.

4. In response to the requests referred to in the paragraph 3 above, the Turkish Authorities stated that :

(1) Six (6) more C/P will be assigned by the end of September 1991.

At the same time, it is made clear that a teacher, who is assigned at present in the Electronics Department on a temporary basis, will continue to work at the Project even after termination of his army service.

(2) Efforts will be continued to increase the salary of C/P by drawing the budget from the Vocational and Technical Training Development and Extension Fund of the said Ministry.

(3) Concerning the ten (10) staff houses the formal procedure to have electricity and water supplied to the houses is being done and will be completed as soon as possible. The candidates' list of the inhabitants in the houses has been prepared.

(4) The construction work of the multi-purpose auditorium and classrooms will be completed by the end of December, 1992. A part of its budget has already been appropriated, while the remaining necessary budget will be allocated in due course according to the progress of the construction.

(5) The construction work will be started in June, 1991 to secure the space to install the computers additionally granted by the Japanese Government.



(6) The quotations for the maintenance of computers are being studied.

It will be completed by the end of the current educational year, after that necessary procedure will be taken to make the contract for the maintenance of computers.

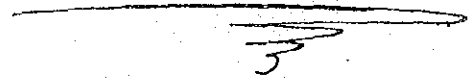
(7) Seventy(70) million TL will be immediately sent to the Project for the purchase of the consumption materials used at the workshops.

(8) The Turkish Authorities understand the significance of holding regular meetings with the Japanese experts.

5. The Turkish Authorities explained the plan that the in-service training will be prepared during this summer vacation and that adult-training will be done in 1992.

6. In order to enhance the level of students who will be enrolled, the Turkish Authorities explained their idea to establish an anatolian technical high school course, consisting of thirty (30) students in the computer field, at Istanbul-Tuzla Vocational and Technical High School.

7. The Turkish Authorities expressed their strong request to extend the cooperation term of the Project indicated in the R/D.



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8. In regarding the request referred to in the paragraph 7 above , the Team expressed the following opinions:

- (1) If a follow-up survey is conducted at enterprises after students graduate from the Istanbul-Tuzla Vocational and Technical High School , its result can be reflected on the present curriculums before September 1992.
- (2) Preparation of the textbooks can be completed before September 1992. As for audio-visual training materials , it is expected that a short term expert in the audio-visual field, who will be dispatched in August 1991, will assist the necessary C/P to prepare basic materials.

In this connection, the Team also stated to convey the request to the Japanese Government , which is prepared and handed out by the Turkish Authorities.

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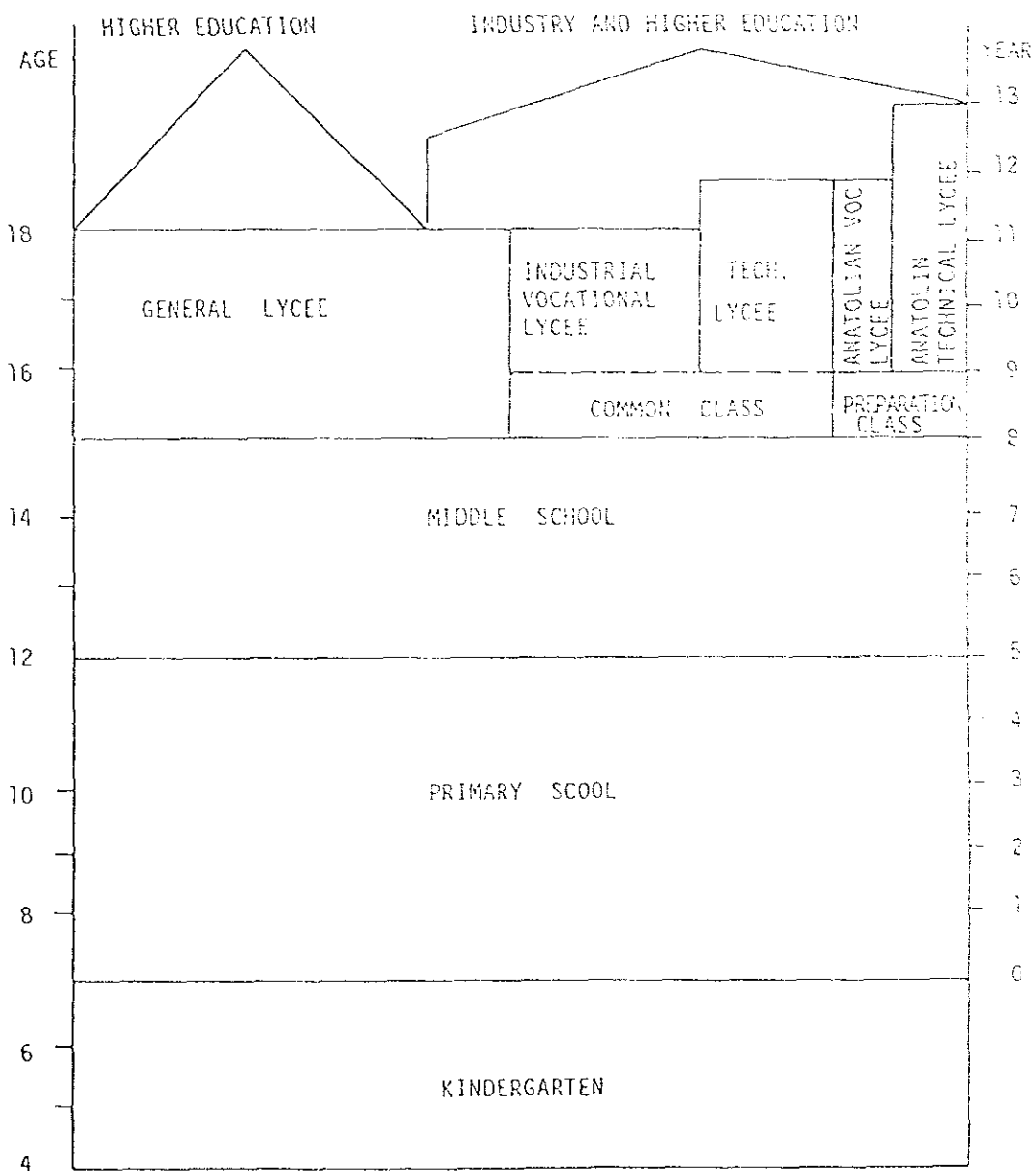
添付資料10. アナトリアン技術高校

Education System.

Education system in Turkey may be seen at Tab. 6. The following explanation is summarizing the formal education system, emphasis on vocational and technical education.

Table 6

EDUCATION SYSTEM IN TURKEY



INDUSTRIAL TECHNICAL TRAINING SCHOOLS, THEIR NUMBERS AND PROGRAMMES
IN 1990-1991 SCHOOL YEAR

Table : 7

TYPE OF SCHOOL	DURATION (Year)	NUMBER OF SCHOOLS	NUMBER OF PROGRAMMES	COMMENTS
ANATOLIAN TECHNICAL LYCEE	1 + 4	36	11	1 st year is preparatory.
TECHNICAL LYCEE	4	171	17	9 th grade is common with Ind. Voc. Lycee.
ANATOLIAN VOCATIONAL LYCEE	1 + 3	3	5	1 st year is preparatory
INDUSTRIAL VOCATIONAL LYCEE	3	415	47	50 of them have boarding facilities 22 of them have middle schools
VOCATIONAL TRAINING FOR GENERAL LYCEE GRADUATES	1 3 semesters	Ind. Voc. Ly	30	will be expanded
INDUSTRIAL PRACTICAL TRADE SCHOOL	1	Ind. Voc. Ly	30	2 of them are independent
ADULT TECHNICAL TRAINING CENTER	1	12	28	Have boarding facilities
VOCATIONAL TRAINING CENTER	3 1/2	1	2	

TABLE : 8

PROGRAMMES IN ANATOLIAN
TECHNICAL LYCEES

1. COMPUTER SCIENCE
2. ELECTRONICS
3. ELECTRICITY
4. AIRCRAFT ELECTRONICS
5. AIRCRAFT ENGINEES
6. MEDICAL ELECTRONICS
7. AUTOMATIC CONTROL
8. JOURNALISM
9. BUILDING DRAFTSMAN
10. BUILDING CONSTRUCTION
11. MECHANICAL ENGINEERING

ANATOLIAN TECHNICAL LYCEE
(Weekly Program)

TABLE- 9

AREA: ELECTRICAL

GENERAL SUBJECTS	PREPA.	IX.	X.	XI.	XII.
Turkish	4	2	-	-	-
Turkish Literature	-	-	4	4	3
Mathematics	-	(3)	(4)	(4)	(3)
History	-	2	2	2	-
Geography	-	-	2	-	-
His. of Turkish Republic and Atatürk's Principles	-	1	1	2	-
Physics	-	(2)	(2)	(2)	(2)
Chemistry	-	(2)	(2)	(2)	(2)
Foreign Language	(27)	(4)	(5)	(3)	(4)
Industrial Psychology	-	-	-	1	-
National Defence	-	-	1	-	-
Physical Education	2	1	1	-	-
Religion and Ethics	-	1	1	1	-
Biology and Health Seminar	(4)	-	-	-	2
TOTAL	37	18	25	21	16
VOCATIONAL SUBJECTS					
Technical Drawing	-	2	-	-	-
Occupational Drawing	-	-	(2)	(3)	(3)
Electrotechnique	-	(4)	(5)	-	-
Measuring Technique and Lab. Electrifications	-	-	-	4	3
Electronics and Laboratory Electrical Machine and Lab.	-	-	2	4	4
Production Management	-	1	-	-	2
Job Safety	-	1	-	-	-
Technology	-	2	-	-	-
Electricity Laboratory	-	2	-	-	-
Workshop	-	16	-	-	-
Workshop and Technology	-	-	10	10	14
TOTAL		28	19	21	26
GENERAL TOTAL	37	46	44	42	42

() - WILL BE TAUGHT AS FOREIGN LANGUAGE

ANATOLIAN TECHNICAL LYCEE
(Weekly Program)

TABLE- 11

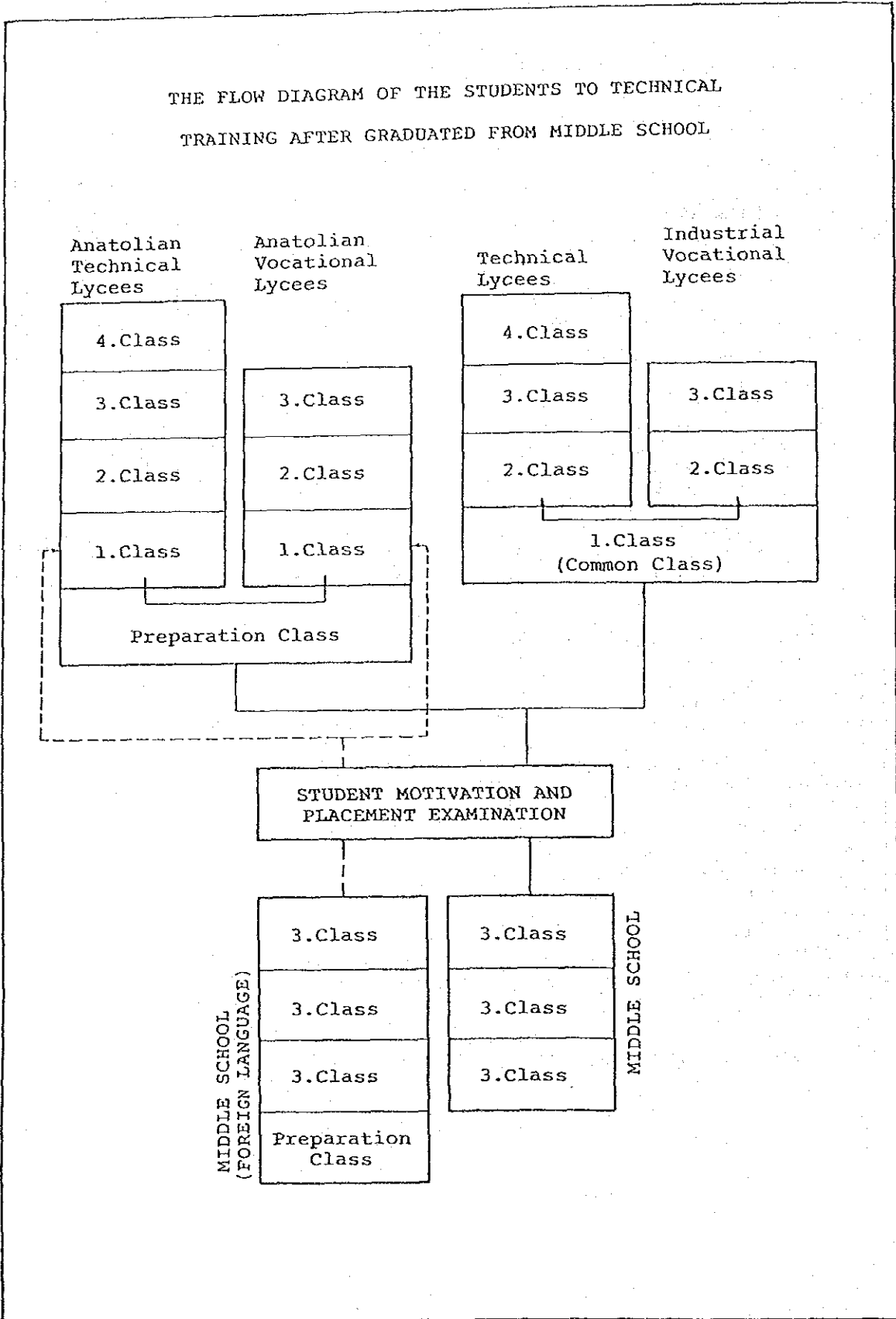
AREA: COMPUTER

GENERAL SUBJECTS	PREPA.	IX.	X.	XI.	XII.
Turkish	4	2	-	-	-
Turkish Literature	-	-	4	4	3
Mathematics	-	(3)	(4)	(4)	(3)
History	-	2	2	2	-
Geography	-	-	2	-	-
History of Turkish Republic and Atatürk's Principles	-	1	1	2	-
Physics	-	(2)	(2)	(2)	(2)
Chemistry	-	(2)	(2)	(2)	(2)
Foreign Language	(27)	(4)	(5)	(3)	(4)
Industrial Psychology	-	-	-	1	-
National Defence	-	-	1	-	-
Physical Education	2	1	1	-	-
Religion and Ethics	-	1	1	1	-
Biology and Health	-	-	-	-	2
Seminar	(4)	-	-	-	-
TOTAL	37	18	25	21	16
VOCATIONAL SUBJECTS					
Technical and Occupational Drawing	-	2	-	-	-
Electrotechnique	-	(2)	(2)	-	-
Electronics	-	(4)	(3)	-	-
Measuring Technique	-	2	-	-	-
Digital Electronic	-	-	(2)	-	-
Programing	-	-	2	-	4
Microprocessor and assmbler	-	-	-	(4)	-
Hardware Architecture	-	-	-	(4)	-
Industrial Control	-	-	-	3	-
System Control and Design	-	-	-	-	(4)
Hardware testing technique	-	-	-	-	(2)
Production management	-	1	-	-	-
Job Safety	-	1	-	-	-
Workshop	-	16	8	10	16
TOTAL	-	28	17	21	26
GENERAL TOTAL	37	46	42	42	42

() - WILL BE TAUGHT AS FOREIGN LANGUAGE

Table-19

THE FLOW DIAGRAM OF THE STUDENTS TO TECHNICAL TRAINING AFTER GRADUATED FROM MIDDLE SCHOOL



INCREASE OF SCHOOLS, DEPARTMENTS AND STUDENTS IN LAST SIX YEARS

Table-20

SCHOOL YEARS	ANATOLIAN TECHNICAL LYCEE			ANATOLIAN VOCATIONAL LYCEE			TECHNICAL LYCEE			INDUSTRIAL VOCATIONAL LYCEE			MIDDLE SCHOOLS (Junior High Schools)			TOTAL		
	NUMBER OF SCHOOLS	NUMBER OF DEPART	NUMBER OF STUDENTS	NUMBER OF SCHOOLS	NUMBER OF DEPART	NUMBER OF STUDENTS	NUMBER OF SCHOOLS	NUMBER OF DEPART	NUMBER OF STUDENTS	NUMBER OF SCHOOLS	NUMBER OF DEPART	NUMBER OF STUDENTS	NUMBER OF SCHOOLS	NUMBER OF DEPART	NUMBER OF STUDENTS	NUMBER OF SCHOOLS	NUMBER OF DEPART	NUMBER OF STUDENTS
1984-1985	3	3	145	1	3	48	75	131	9,574	336	1,313	157,212	-	-	-	415	1,450	165,919
1985-1986	4	4	194	2	3	120	100	171	11,730	342	1,367	175,258	-	-	-	447	1,545	187,302
1986-1987	4	4	644	1	3	192	104	179	13,697	342	1,402	189,349	15	2,400	-	466	1,588	206,282
1987-1988	9	11	959	1	3	257	120	207	16,201	356	1,458	205,549	21	3,125	-	509	1,679	225,091
1988-1989	20	24	2,752	1	3	354	132	245	18,939	369	1,517	220,004	22	3,357	-	544	1,789	245,406
1989-1990	31	43	3,707	3	5	374	156	289	22,118	407	1,640	238,208	22	3,804	-	618	1,977	268,211
1990-1991	36	55	4,127	3	6	433	171	361	26,503	415	1,731	253,433	22	3,646	-	647	2,153	304,352

添付資料11. その他

個別カンターパート技術移転月間計画及び結果表 (電気科 1991/5 抜粋)

PERSONAL TRAINING SCHEDULE AND THE RECORD Electric. Dep

Counterpart: Tacettin GÖRGÜLVARSLAN (H/w)

Japanese experts: S. YONEMURA

Training hours: Planned (upper row): hrs Actual (lower row): hrs

Subjects	Time	Details	Time					Remarks
			1stweek	2ndweek	3rdweek	4thweek	5thweek	
Preparation for training materials	70	Making the text book of Y cable installation	10	13	15	14	18	
Electrotechnique	10	Magnetism Chemical effect and batteries	2	2	2	2	2	
Electric machinery	4	D.C motor characteristics	1	1	1	1	1	
Electric control	10	Motor control circuit	2	2	2	2	2	
Related job to the training activities	5	Meeting	1	1	1	1	1	
Sub total	108		16	24	24	20	24	
Teaching	62		6	15	15	11	15	
Other duties	37		6	8	8	7	8	
Absence			1	1	1	1	1	
Grand total	207		28	49	47	38	47	

個別カンターパート技術移転月間計画及び結果表 (電子科 1991/5 抜粋)

PERSONAL TRAINING SCHEDULE AND THE RECORD

Month	May .1991	Counterpart	NOCI CANBAN (47 H/W)
Japanese experts	A. IMAMURA & S. HIRAMATSU	Training hours	Planned (upper row): hrs Actual (lower row): hrs

Subjects	Time	Details	(30hrs)					Remarks	Yaris
			1stweek	2ndweek	3rdweek	4thweek	5thweek		
Training of Teaching Material	←2/→	practice	←5→	←5→	←3→	←4→	←4→	→	
Making of Training Material	←18→	translation	←3→	←3→	←5→	←3→	←4→	→	
- ditto -		making of lesson plan							
Other Works	←14→	preparing of lesson	←2→	←3→	←3→	←3→	←3→	→	
- ditto -	←5→	making of weekly technical report and other works	←1→	←1→	←1→	←1→	←1→	→	
	←10→	H.O. D. JOB or other school works	←2→	←2→	←2→	←2→	←2→	→	
Sub total	←68→		←13→	←14→	←14→	←13→	←14→	→	
Teaching	113		110	128	128	119	128		
Other duties	←24→		14	15	15	15	15		
Absence			1	1	1	1	1		
Grand total	205		127	147	147	137	147		

Electronics Dept

個別コンピューター技術移転月間計画及び結果表 (コンピュータ科 1991 / 5 抜粋)

PERSONAL TRAINING SCHEDULE AND ITS RECORD

Planned on: 20/4/1991
Reviewed on:

Month / Year	May	1991	Name of counterpart	Mr. Orhan ALTINBAŞAK						
Expert	Seiji KAREMIZU, Haruo ISHIZUKA		Training hours of the month	Planned (upper row): 64 Hours	Actual (lower row):	Hours				
Training item	Time	Details of the training	Time	1st week	2nd week	3rd week	4th week	5th week	Remarks	Ev'n
Microprocessors	17	Practices of a microprocessor.	17	1	4	4	4	4		
Preparation of the training resources	50	Preparing training resources of PROJECT WORK, PASCAL (including technical transfer)	50	2	12	12	12	12		
Related jobs to the training activities	5	Meeting in the computer department, technical discussions, etc.	5	1	1	1	1	1		
	—		—							
	—		—							
SUB TOTAL	64		64	4	15	15	15	15		
TEACHING	129		129	21	27	27	27	27		
OTHER DUTIES	25		25	5	5	5	5	5		
ABSENCE	0		0	0	0	0	0	0		
GRAND TOTAL	217	(47 hours per week)	217	29	47	47	47	47		

指導案（様式）
GÜNLÜK PLAN

No.

1. Ders	:	_____
2. Konu	:	_____
3. Amaç	:	_____
4. Süre	:	_____
5. Kullanılan araç ve gereçler	:	_____

Dersin Bölümleri	İşlem Sırası	Araç Gereçler	Süre
Tanıtım (Hazırlık)	1. Öğrenciyi dersi öğrenmeye hazırlayınız. 2. Dersin ana başlıklarını açıkça belirtiniz.		
Açıklama (Sunuş)	Not: Gereksiz bilgilerden kaçınınız.		
Deney (Uygulama)			
Özet (Değerlendirme)	1. Önemli noktaları vurgulayınız.		

指導案 (サンプル)

GÜNLÜK PLAN

No. 8

1. Ders	: Ökencü laboratuvarı		
2. Konu	: Transistör karakteristikleri D		
3. Amaç	: Transistör statik karakteristiklerinin çıkarılması		
4. Süre	: 180 dk		
5. Kullanılan araç ve gereçler	: proje uygulama kitabı, lab. araç, gereçleri		
Dersin Bölümleri	İşlem Sırası	Araç Gereçler	Süre
Tanıtım (Hazırlık)	<p>1. Öğrenciyi dersi öğrenmeye hazırlayınız.</p> <p>- Bu önceki deneyle ilgili sorular ve cevaplar sorulmuş sorularla konuya hazırlık yapılacaktır.</p> <p>2. Dersin ana başlıklarını açıkça belirtiniz.</p>		5
Açıklama (Sunuş)	<p>- Deneyin nasıl yapılacağı açıklanacaktır.</p> <p>- İlk deney öğretmen tarafından yapılacaktır. gerekli açıklamalar yapılabilecektir.</p> <p>- Her öğrencinin tek tek deney yapmasını öğütülecektir.</p> <p>Not: Gereksiz bilgilerden kaçının.</p>	<p>İlgili iz ve izlem yapılı.</p> <p>Deney kitabı kullanılarak birer birer göz ve malzeme kullanılarak yapılacaktır.</p>	30
Deney (Uygulama)	<p>- Karakteristik eğrileri için gerekli ölçümler alınarak yapılacaktır.</p>		75
Özet (Değerlendirme)	<p>1. Önemli noktaları vurgulayınız.</p> <p>- ilgili deney raporu bu hafta sonra istenecektir.</p> <p>- Konu öğretmen tarafından özetlenecektir.</p>		10

訓練機材設備基準 (トルコ側)

(電気科)

ENDÜSTRİ MESLEK LİSELERİ
6. ELEKTRİK BÖLÜMÜ STANDART EŞYA LİSTESİ

<u>EŞYANIN CİNSİ</u>	<u>MİKTARI</u>
Atatürk Fotoğraf Çerçevesi (56 × 76 × 5 cm)	1 adet
Gençliğe Hitabe Çerçevesi (56 × 76 × 5 cm)	1 adet
İstiklâl Marşı Çerçevesi (56 × 76 × 5 cm)	1 adet
10. Yıl Nutku Çerçevesi (56 × 76 × 5 cm)	1 adet
Atölye öğretmen kürsüsü	5 adet
Sandalye	5 adet
Gereç dolabı	5 adet
Takım dolabı (açık)	5 adet
Elektrik tesisat atelye iş tezgahı	10 adet
Bobinaj atölye iş tezgahı	10 adet
Elektrik ölçü aletleri dolabı	3 adet
Laboratuvar deney tezgahı	6 adet
Portatif yazı tahtası	3 adet
Kanatlı yazı tahtası	1 adet
Yayın dolabı	1 adet
Kağıt sepeti	1 adet
Tabure (Yüksek)	80 adet
Otomatik kontrol devreleri uygulama tez.	5 adet
Duvar ecza dolabı	1 adet
Tesviyeci tezgahı	10 adet
DC-Motor-Generatör grubu (0,5 KW)	1 takım
Masa matkap tezgahı	1 adet
Nokta kaynak makinası	1 adet
Sütunlu zımpara taşı tezgahı	1 adet
Kollu giyotin makas (1,5 × 1000 mm)	1 adet
Bobin sarma makinası	1 adet
Tepegöz	2 adet
DC-güç kaynağı	1 adet
Elektrikli el breyzi	1 adet
Laboratuvar deney redresörü	2 adet
Lüks metre	1 adet
RCL metre	1 adet
Watt metre	1 adet
Tek fazlı cosinüsfi metre	2 adet
Üç fazlı cosinüsfi metre	2 adet
Asenkron motor (Değişik güçte)	4 adet
Mili ampermetre	1 adet
Ampermetre AC-DC	5 adet
Voltmetre AC-DC	5 adet
Tek ışınli osilaskop	1 adet
Çift ışınli osilaskop	1 adet

Tevzi tablosu	1 takım
Çeşitli eğe	10 düzine
Statör gövdesi	10 adet
Bobin fişi	1000 adet
Oto Trafosu (Tek fazlı ve üç fazlı)	2'şer adet
Mikrometre	5 adet
Kumpas	20 adet
Akü Test cihazı	2 adet
Allen Anahtar Takımı	1 takım
Demir Testeresi	5 adet
Zımpara taşı	1 adet
Bağlantı kablosu	1000 adet
Tornavida	80 adet
Strator	5 adet
Pense (İzoleli)	40 adet
Kargaburun	40 adet
Yan keski	40 adet
Çekiç (250 gr.)	40 adet
Matkap ucu (çeşitli)	10'ar adet
Bobin sarma çıkırığı	10 adet
Tesviyeci mengenesi	40 adet
Markacı pleyti	1 adet
Mihengir	1 adet
Elektrikli havya	10 adet
Tenekeci makası	1 adet
Pafta M-W	1 takım
Klavuz M-W	1 takım
Buji kolu	3 adet
Pafta kolu	3 adet
Boş stator (çeşitli)	10 adet
Gönye	10 adet
Otomatik kumanda masası	2 takım
Döner koltuk (kenarı açık)	1 adet
Soyunma dolabı (tek kişilik)	4 adet
Dosya dolabı	1 adet
Telefon etejeri	1 adet
Sandalye (Normal)	8 adet
Otomatik Kumanda Deney Seti	1 takım
Reosta Seti	1 takım
Takometre	1 adet
Avometre	10 adet
Endüvi	10 adet
Aliminyum Bobin Kabı	5 adet
Frekans Metre (220 V.)	1 adet

A.C. Motor Jeneratör Grubu (0.5 Kw lik)	1 adet
Veston Köprüsü	1 adet
Ondalık Direnç Kutusu	2 adet
Ondalık Kapasite Kutusu	2 adet
Self kutusu	2 adet
Galvanometre	1 adet
Bir fazlı varyak	1 adet
Plastik tokmak	5 adet
Anahtar takımı (açıkağız)	1 takım
Anahtar takımı (yıldız)	1 takım
Lokma anahtar takımı	1 takım

(電子科)

ENDÜSTRİ MESLEK LİSESİ
7.ELEKTRONİK BÖLÜMÜ STANDART EŞYA LİSTESİ

<u>EŞYANIN CİNSİ</u>	<u>MİKTARI</u>
Atatürk Fotoğraf Çerçevesi (56 × 76 × 5 cm)	1 Adet
Gençliğe Hitabe Çerçevesi (56 × 76 × 5 cm)	1 Adet
İstiklâl Marşı Çerçevesi (56 × 76 × 5 cm)	1 Adet
10. Yıl Nutku Çerçevesi (56 × 76 × 5 cm)	1 Adet
Atelye Öğretmen Kürsüsü	4 adet
Sandalye	23 adet
Elektronik gereçler dolabı	3 adet
Gereç dolabı	3 adet
Takım dolabı (açık)	6 adet
Elektrik tesisat atelyesi iş tez.	10 adet
Bobinaj atelyesi iş tezgahı	10 adet
Elektrik ölçü aletleri dolabı	3 adet
Laboratuvar deney tezgahı	6 adet
Portatif yazı tahtası	3 adet
Yazı tahtası	1 adet
Yayın dolabı	1 adet
Kağıt sepeti	1 adet
Tabure (Yüksek)	80 adet
Televizyon onarım tezgahı	5 adet
Duvar ecza dolabı	3 adet
Tesviyeci tezgahı	5 adet
Bilgisayar masası (2 kişilik)	10 adet
Kanatlı yazı tahtası (Beyaz formika)	2 adet
Sınıf öğretmen kürsüsü	4 adet

Masa matkap tezgahı	1 adet
Zımpara taşı tezgahı sütunlu	1 adet
Kollu giyotin makası (1,5 × 1000)	1 adet
Nokta kaynak makinası	1 adet
Bobin sarma çıkırığı	10 adet
Bobin sarma makinası	1 adet
Radyo	5 adet
Teyp	5 adet
Vldeo ve player	2 adet
Tepegöz	1 adet
AC-DC güç kaynağı	1 adet
TV. Renkli	5 adet
Takometre (Turmetre)	1 adet
Multimetre	1 adet
Curve Tracer	1 adet
Patten Generatör	1 adet
Sweep generatör	2 adet
Frekans sayacı (frekansmetre)	5 adet
Audi tester	2 adet
Sinkara dalga generatörü	5 adet
Elektronik eğitim seti	3 takım
RCL metre	2 adet
AF-RF sinyal generatörü	5 adet
Çift ışınli osilaskop (gecikmeli)	5 adet
Çift ışınli osilaskop (gecikmesiz ve gecikmeli)	2 adet
Digital frekansmetre	10 adet
Tek fazlı kosinüsfi metre	2 adet
Üç fazlı kosinüsfi metre	2 adet
Fonksiyon jeneratörü	2 adet
Pens avometre	2 adet
Avometre	10 adet
Watmetre	2 adet
Çeşitli Eğe	10 düzine
Yâzi masası koltuğu (Dön.kol.ken.açık)	1 adet
Soyunma dolabı (Tek kişilik)	4 adet
Dosya dolabı	3 adet
Telefon etejeri	1 adet
Tabure (Yüksek)	80 adet
Televizyon onarım tezgahı	5 adet
Duvar ecza dolabı	3 adet
Tesviyecı tezgahı	5 adet
Bilgisayar masası (2 kişilik)	10 adet
Kanatlı yazı tahtası (Beyaz formika)	2 adet
Sınıf öğretmen kürsüsü	4 adet

Masa matkap tezgahı	1 adet
Zımpara taşı tezgahı sütunlu	1 adet
Kollu giyotin makası (1,5 × 1000)	1 adet
Nokta kaynak makinası	1 adet
Bobin sarma çıkırığı	10 adet
Bobin sarma makinası	1 adet
Radyo	5 adet
Teyp	5 adet
Vldeo ve player	2 adet
Tepegöz	1 adet
AC-DC güç kaynağı	1 adet
TV, Renkli	5 adet
Takometre (Turmetre)	1 adet
Multimetre	1 adet
Curve Tracer	1 adet
Patten Generatör	1 adet
Sweep generatör	2 adet
Frekans sayacı (frekansmetre)	5 adet
Audi lester	2 adet
Sinkara dalga generatörü	5 adet
Elektronik eğitim seti	3 takım
RCL metre	2 adet
AF-RF sinyal generatörü	5 adet
Çift ışınli osilaskop (gecikmeli)	5 adet
Çift ışınli osilaskop (gecikmesiz ve gecikmeli)	2 adet
Digital frekansmetre	10 adet
Tek fazlı kosinüsfi metre	2 adet
Üç fazlı kosinüsfi metre	2 adet
Fonksiyon jeneratörü	2 adet
Pens avometre	2 adet
Avometre	10 adet
Watmetre	2 adet
Çeşitli Eğe	10 düzine
Yazı masası koltuğu (Dön.kol.ken.açık)	1 adet
Soyunma dolabı (Tek kişilik)	4 adet
Dosya dolabı	3 adet
Telefon etejeri	1 adet
Sandalye (Normal)	8 adet
Tornavida	80 adet
Pense	40 adet
Kargaburun	40 adet
Yankeski	40 adet
Çekiç (250 gr)	40 adet
Matkap ucu (çeşitli)	10 adet

Bağlantı kablosu	1000 adet
Born fişi	1000 adet
Tesviyeci mengenesi	40 adet
Markacı pleyti	1 adet
Mihengir	1 adet
Elektrikli Havya	40 adet
Elektrikli Havya	1 adet
Tenekeci makası	4 adet
Klavuz M-W	1 takım
Buji kolu	3 adet
Pafta kolu	3 adet
Gönye	10 adet
Pafta M-W	1 takım
Bilgisayar (Klavye Monitör Güç Kaynağı Disket Sürücü)	10 adet
Yazıcı	5 adet
Saatçi Tornavidası	5 adet

