

**MAZHAR ZORLU ANATOLIAN TECHNICAL HIGH SCHOOL
STUDENT NUMBERS**

(As of 2004 – 2005 Academical Year)

Grades	Departments		Boy	Girl	Total
Prep.	Industrial Automation Technologies	Inf. Electronics	29	1	30
		Inf. Machinery	30	0	30
	Automatic Control		-	-	-
	Plastics		-	-	-
Total of Prep. Grades :			59	1	60
9th	Industrial Automation Technologies	Inf. Electronics	29	0	29
		Inf. Machinery	24	1	25
	Automatic Control		-	-	-
	Plastics	A	29	3	32
		B	30	0	30
		C	29	0	29
			5	0	5
Total of 9th Grades:			146	4	150
10th	Ind. Automation Technologies	Inf. Electronics	27	0	27
		Inf. Machinery	19	2	21
	Automatic Control		-	-	-
	Plastics	A	31	0	31
		B	29	1	30
Total of 10th Grades :			106	3	109
11th	Industrial Automation Technologies	Inf. Electronics	25	2	27
		Inf. Machinery	21	2	23
	Auto. Control	Waiting Students	3	1	4
	Plastics	A	20	4	24
		B	30	0	30
		C	21	0	21
		Waiting students	14	2	16
Total of 11th Grades :			134	11	145
12th	Industrial Automation Technologies	Inf. Electronics	-	-	-
		Inf. Machinery	-	-	-
	Automatic Control		2	0	2
	Plastics		-	-	-
Total of 12th Grades:			2	0	2
			447	19	466
TOTAL NUMBER of STUDENTS			466		
Total of Ind. Auto. Tech. Department			204	8	212
Total of Automatic Control Department			5	1	6
Total of Plastics Department			238	10	248
					466

ADIL KARAAGAC ANATOLIAN TECHNICAL HIGH SCHOOL
STUDENT NUMBERS
(As of 2004 – 2005 Academic Year)

Grades	Departments	Boy	Girl	Total
Prep.	Electricity	34	0	34
	Electronics	30	0	30
	Computer	21	9	30
	Chemistry	12	19	31
	Ind. Automation Technologies Inf. Electronics	29	1	30
Total of Prep. Grades :		126	29	155
9th	Electricity	19	0	19
	Electronics	20	1	21
	Computer	15	5	20
	Chemistry	10	9	19
	Ind. Automation Technologies Inf. Electronics	23	4	27
Total of 9th Grades:		87	19	106
10th	Electricity	18	0	18
	Electronics	23	0	23
	Computer	15	11	26
	Chemistry	4	10	14
	Ind. Automation Technologies Inf. Electronics	30	0	30
Total of 10th Grades :		90	21	111
11th	Electricity	14	0	14
	Electronics	23	0	23
	Computer	20	9	29
	Chemistry	5	12	17
	Ind. Automation Technologies Inf. Electronics	29	0	29
Total of 11th Grades :		91	21	112
TOTAL NUMBER of STUDENTS		484		
Total of Electricity Department		85		
Total of Electronics Department		97		
Total of Computer Department		105		
Total of Chemistry Department		81		
Total of Ind. Auto. Tech. Department		116		
TOTAL NUMBER of STUDENTS		484		

MAZHAR ZORLU ANATOLIAN TECHNICAL HIGH SCHOOL

STUDENT NUMBERS
(As of 2004 – 2005 Academic Year)

Grades	Department		Boy	Girl	Total
Prep.	Industrial Automation Technologies	Inf. Electronics	29	1	30
		Inf. Machinery	30	0	30
Total of Prep. Grades :			59	1	60
9th	Industrial Automation Technologies	Inf. Electronics	29	0	29
		Inf. Machinery	24	1	25
Total of 9th Grades:			53	1	54
10th	Ind. Automation Technologies	Inf. Electronics	27	0	27
		Inf. Machinery	19	2	21
Total of 10th Grades :			46	2	48
11th	Industrial Automation Technologies	Inf. Electronics	25	2	27
		Inf. Machinery	21	2	23
Total of 11th Grades :			46	4	50
Total of Ind. Auto. Tech. Department			204	8	212

ADIL KARAAGAC ANATOLIAN TECHNICAL HIGH SCHOOL
STUDENT NUMBERS
(As of 2004 – 2005 Academic Year)

Grades	Department	Boy	Girl	Total
Prep.	Ind. Automation Technologies Inf. Electronics	29	1	30
9th	Ind. Automation Technologies Inf. Electronics	23	4	27
10th	Ind. Automation Technologies Inf. Electronics	30	0	30
11th	Ind. Automation Technologies Inf. Electronics	29	0	29
Total of Ind. Auto. Tech. Department		111	5	116
		116		

新規要請普及計画

(20 校への自動制御学科設置と TTC における教員養成) について

1. 普及計画は、20 校（別添リスト）への自動制御学科の設置と、それに伴って必要となる教員をイズミール校に併設する教員養成センター（TTC）で養成するもの。

2. タイムスケジュール

(1) 学科設置

別紙 1「総合線表」に示されているとおり、2005 年 9 月に第一期 10 校、2006 年 9 月に第 2 期 10 校に設置される。アナトリア工業高校は 5 年制 (IIX~XII) で、第 IIX 学年は予備学年として主に語学の学習に充てられるため、第一期校で専門課程が開始されるのは、第 IX 学年が開講する 2006 年 9 月である。

(2) 教員の配置と TTC

2006 年 9 月から第一期校で専門課程（第 IX 学年）が開講するため、2005 年後半～2006 年前半に掛けて、第 IX～X 学年を指導する教員を育成する必要あり。また、TTC は 2006 年度中に施設完成予定だが、別途、機材調達や TTC 用カリキュラム・教材の開発が必要となる。

(3) 施設・機材等の整備状況

別紙 2 のとおり、トルコ側の予算で整備が進められているのは、比較的小さなツール類であり、メインとなる実習機材の計画はまだ確定されていない（プロジェクトの第一世代の専門家が作成した計画があるとのことだが、その後プロジェクトの進捗に伴って機材投入量も変化しており、検討の余地がありそうである）。

(4) テキスト・教材等の準備

プロジェクトと普及計画では、一科あたりの機材購入費は、約 1 億円、約 4 千万円とかなりの違いがあるとのことである。

したがって、カリキュラム、実習機材、テキスト・教材等が一体で策定されるものである以上、プロジェクトで開発されたカリキュラム、教材・テキストがそのまま使用できる可能性は低い。

3. 課題・問題点

(1) 詳細計画が検討されないまま、準備が開始されており、実施可能性が危ぶまれる。また、策定済みの計画が JICA 側に十分示されていない。

- ・ 普及校の開講スケジュールに教員養成が追いつかない。
- ・ 実習機材の詳細や、資金計画の目処が立っていない。

(2) プロジェクトの活動との整合性が確認できていない。

(3) トルコ側の制度上の位置付けの確認

一般に各県に設けられている教員養成センター（TTC）は、職業教育局の所管ではないとのことで、イズミールに設置される TTC は例外的な措置となる。担当部

局との間で、制度上の問題がクリアされているのかは、要確認。

(4) EU 等他ドナーの活動との整理

4. JICA 側の対応状況

(1) プロジェクトによる直接・間接的な支援

(2) 校長マネジメント研修 (2004～2006 年度 JICA 中部、受入県=岐阜)

(3) ローカルコンサルタントによる技術調査 (トルコ事務所にて準備中)

2005 年 2 月末～3 月末にかけて本邦役務コンサルタントを派遣し、ローカルコンサルタントの備上支援を実施 (指示書検討、業務説明会)。

以上

要請書（ドラフト）概要

1. 案件名

「The Project of the Development of Industrial Automation Technologies Department and Establishment of Teacher Training Centre at Izmir Mazhar Zorlu Anatolian Technical High School」

（仮：自動制御科およびアナトリア工業高校イズミール校における教員養成センター設立計画）

2. プロジェクト期間 5年間

3. 教員養成センター

アナトリア工業高校イズミール校に設置される。定員は年間 60 名（30 名×2 クラス）で、8～9 ヶ月の研修を実施する。指導員には、現行プロジェクト（「自動制御技術教育改善計画」）の C/P を想定している。

4. 成果

- (1) 教員養成のための訓練コースの設立
- (2) 教員養成コースのためのカリキュラム・教科書の策定
- (3) 20 校への自動制御科設置への助言・提言
- (4) 技術力向上のための短期間のトレーニングの実施

5. 活動

- (1) 20 校及び教員養成センター用のカリキュラム、教材の策定にかかる提言・助言
- (2) 教員養成センター用機材リストの作成への提言・助言
- (3) 教員養成センターの運営にかかる提言・助言
- (4) 20 校への普及計画のモニタリング業務への提言・助言
- (5) 現行プロジェクトで策定した教科書の改訂作業への提言・助言

6. 投入

専門家 3 名（高等専門学校、大学レベル）の派遣

※ 機材計画等は不明。現行プロジェクトで導入した機材については、工業高校（イズミール校、コンヤ校）で使用するため、新規の機材を導入するとなっている。

※ 日本での研修について要望が記載されている。

以上

**THE PROJECT OF THE DEVELOPMENT OF INDUSTRIAL AUTOMATION
TECHNOLOGIES DEPARTMENT AND THE ESTABLISHMENT OF TEACHER
TRAINING CENTRE AT IZMIR MAZHAR ZORLU ANATOLIAN TECHNICAL HIGH
SCHOOL**

**WITHIN THE CONTEXT OF TECHNICAL COOPERATION BETWEEN
THE GOVERNMENT OF THE REPUBLIC OF TURKEY, MINISTRY OF NATIONAL
EDUCATION AND JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)**

A. INTRODUCTION

Instead of a technical staff specialized in a single field in industrial production, the installment of robots and automation systems capable of performing numerous tasks causes the decrease in manufacturing costs and thus leads to competitive superiority in the market.

In view of these realities, it has become obligatory that revisions and innovations should also be made in the vocational training schemes of technicians, the most important elements in the production of goods and services. In a survey made in order to train technical staff who are needed by today's industry, it has become obvious that industrialists want to employ knowledgeable and qualified technicians in the fields of electricity, electronics, computer, mechanics, communication and network technologies, automation systems of plants and robotics.

For this reason, with the aim of meeting our country's need for the manpower in this field, an application was made to Japan International Cooperation Agency (JICA) and in 2000 Turkish and Japanese experts, through examinations in the areas with intensive industries across the country, established the industrial requirements and knowledge and competences that the workers should have and thus the establishment of "Industrial Automation Technologies Department" at the two pilot schools in Izmir and Konya at the level of Anatolian Technical High School was determined in order to train the technicians to meet these requirements.

Karaağaç Anatolian Technical High School in Konya and Mazhar Zorlu Anatolian Technical High School in Izmir have been determined to give education in this new vocational field and the project has been put into force with the signing of the protocol which is to be the basis for the implementation of the project between the government of the Republic of Turkey and the government of Japan.

Industrial Automation Technologies Department still maintains its status as the unique training program which is composed of the sub-sections Information Mechanics and Information Electronics and which has in its content information about electricity, electronics, computer, mechanics, production technologies, measurement and control technologies, mechatronics, robotics, automation systems, communication and network technologies.

It has been planned by the Ministry of National Education that this new technology, which has entered Turkey, should not be confined to these two schools and expanded to other schools and it has been resolved that this department should be established at 20 more schools.

It has been resolved that as an expansion model, training programs and text books of the project schools established in Izmir and Konya should be updated and that at least 300 teachers who are working at the Industrial Automation Technologies departments of the project and expansion schools should be trained at a training centre to be established at Izmir Mazhar Zorlu Anatolian Technical High School.

With the aim of benefiting from the experience and knowledge of Japan, which has advanced technology as well as high knowledge in this field, this technical cooperation project has been prepared in order to put into effect on the basis of cooperation agreement between the government of the Republic of Turkey and the government of Japan.

B. GENERAL GOALS OF THE PROJECT

1. To support the vocational and technical education and training in Turkey and to train the educational staff who will train the technical manpower needed in the field of Industrial Automation Technologies.
2. To benefit from the method, technology and financial opportunities of Japan in this field so as to train the educational staff who would train middle-level manpower needed in the field of Industrial Automation Technologies at a training centre to be established at Izmir Mazhar Zorlu Anatolian Technical High School.

C. SPECIFIC GOALS OF THE PROJECT

1. To organize a training course in order to train the teachers of 20 schools within the expansion project.
2. To prepare a curriculum and a textbook for the training of the teachers of 20 schools within the expansion project.
3. To supervise and advise about the implementation of the 20 school expansion project.
4. As another additional function of the project of the Development of Industrial Automation Technologies Department and Teacher Training Centre, to organize a short-term training scheme to improve technical level of vocational and technical high school teachers.
5. To transfer technology to the teachers both at the expansion and other schools.

D. ACTIVITIES TO BE DONE

1. About 300 teachers to be assigned to the 20 schools within the expansion project will be trained at the Development of Industrial Automation Technologies Department and Teacher Training Centre before their assignment.
2. The capacity of the Development of Industrial Automation Technologies Department and Teacher Training Centre will be maximum 60 trainees (30 trainees X 2 classes).
3. The training of the teachers at the 20 schools within the expansion project will be completed in 5 years as the training period of technical teachers is planned to be 8-9 months.
4. Some new educational equipment will be installed to the training center since the installed equipment by the current project is already fully occupied and used by the Izmir Mazhar Zorlu Anatolian Technical High School.
5. The teachers working at Izmir and Konya project schools who are well-trained in this field will be appointed as the teaching staff at the Development of Industrial Automation Technologies Department and Teacher Training Centre.
6. The Curriculum and textbook to be prepared at the Development of Industrial Automation Technologies Department and Teacher Training Centre will be based on the project outputs of the current JICA project in Izmir and Konya.

E. EXPECTATIONS FROM JICA

1. To advise and support both the development of a curriculum and a textbook for a high level technical teacher training and the 20 schools within the expansion project.
2. To advise and support finalizing the equipment list of the Development of Industrial Automation Technologies Department and Teacher Training Centre.
3. To advise and support about the management of the Development of Industrial Automation Technologies Department and Teacher Training Centre.
4. To advise and support as to the monitoring of the implementation of the expansion project.
5. To advise and support the revision/adjustment of the textbook which has been developed by the current project.
6. To assign 3 experts from National College or universities in Japan to the Development of Industrial Automation Technologies Department and Teacher Training Centre.

F. THE SCOPE OF THE PROJECT

This project involves “the Development of Industrial Automation Technologies Department and Teacher Training Centre” to be established at Izmir Mazhar Zorlu Anatolian Technical High School based on the technical cooperation project between the Ministry of National Education of Turkish Republic and Japan International Cooperation Agency.

G. RESPONSIBILITIES OF THE SIDES IN THE PROJECT

1. RESPONSIBILITIES OF THE TURKISH SIDE

By the Ministry of National Education of Turkish Republic;

- a) To prepare a project implementation plan in cooperation with Japanese side,
- b) To establish and provide classrooms, laboratories and workshops where the department will work and to fulfill reconstruction when needed,
- c) To provide foreign language courses to the teachers,
- d) To complete the procedures as regards the assignment of the teachers abroad in the context of the project,
- e) To fulfill the customs procedures of the tools, equipment and materials sent by Japan to be used in this center,
- f) To assign the required number of counterparts for Japanese experts,
- g) To meet the current expenditures of the project department,
- h) To provide the Japanese experts with proper working conditions at schools where they would work and to get residential permit for the period they are assigned.

2. RESPONSIBILITIES OF THE JAPANESE SIDE

By the Japanese Government;

- a) To prepare the implementation plan in cooperation with the Turkish side,
- b) To prepare the settlement and equipment plans of the workshops and laboratories at the center,
- c) To prepare the curriculum in Japan for the Turkish teachers who would work as educational staff at the centre and realize their training in Japan,
- d) To support the preparation and improvement of the curricula and text books as regards the training programs of the teachers at the centre,
- e) To assign long- and short-term Japanese experts at the centre according to the principles to be determined by the sides.

H. TRAINING OF THE TEACHERS

The number and the professional fields of the technical teachers to be assigned to the school where the project works would be implemented will jointly be determined by the sides. These teachers will be appointed by the Ministry of National Education of Turkish Republic, choosing among those who have graduated from electricity, electronics, computer, and machines departments of the Technical Education Faculties at Turkish Universities and those who have finished their bachelor's degree and have adequate experience in teaching.

For the teachers to be assigned at Industrial Automation Technologies Departments;

- a) English courses within the country,
- b) vocational training in Japan in the field of "Industrial Automation Technologies" for the period to be determined in the project implementation plan

will be provided in order to increase their knowledge and skills of modern technologies and teaching methods to a level sufficient to realize industrial and technical education in the fields they would be employed.

I. EDUCATIONAL TOOLS AND EQUIPMENT

Within the context of the project, the tools and equipment necessary for the improvement of the centre at Izmir Mazhar Zorlu Anatolian Technical High School will be determined through the works of the sides to be done during the process of the project. According to this determination, the required tools and equipment will be provided by the Turkish and Japanese governments.

J. EDUCATIONAL PROGRAMS

Educational programs belonging to technical, theoretical and practical courses regarding the education to be given to the teachers at "the Development of Industrial Automation Technologies and Teacher Training Center" at Izmir Mazhar Zorlu Anatolian Technical High School will be prepared in collaboration by Japanese experts and Turkish counterparts.

K. UPDATING OF THE TEXTBOOKS

The already-prepared text books through collaboration of Turkish and Japanese experts within the context of Industrial Automation Technologies Department will be updated and the new ones, if necessary, will be designed according to the developing and changing conditions of the day. In addition, text books necessary for the training of the teachers will be prepared.

L. ADMISSION OF TRAINEES TO THE TEACHER TRAINING CENTRE

At least 300 teachers to be chosen by the General Directorate of Technical Education for Boys according to the related legislation of the Ministry of National Education of Turkish Republic will be gradually admitted to the teacher training center according to the capacity of the center. (Draft education program is shown in Annex-1)

M. FINANCE OF THE PROJECT

Financial amount of the project will jointly be determined by the sides. However,

- a) As regards the project negotiations, the costs involving the technical team's travel from Japan and their accommodation and travel expenditures in Turkey,
- b) The costs related to the provision and transportation of the equipment from Japan for the implementation of the project,
- c) Travel, accommodation and education expenses of the Turkish teachers in Japan,

- d) Travel and accommodation etc. expenses of the Japanese experts to be appointed to the project school by the Japanese government for short- or long-term during the implementation period of the project,
- e) Expenditures for the transportation of every sort of educational material to be provided from Japan to Turkey, for their copyrights and for their first editions, by the Japanese government, and expenditures for,
 - a) Foreign language courses for the teachers in Turkey,
 - b) Duplication and distribution of the educational materials to be prepared in the project so as to send to the other industrial and technical educational institutions
 - c) The necessary reconstruction and maintenance at the teacher training centre will be met by the Government of Turkish Republic.

N. IMPLEMENTATION SCHEDULE OF THE PROJECT

The implementation plan of the project, after reaching a consensus on the implementation schedule to be prepared in the framework of the preparatory project works that will be done together by the sides, will be applied and will be attached to the project text.

O. DURATION OF THE PROJECT

The implementation of the project starts with the signing of the protocol by the sides and the duration of the project is (5) years.

P. PROJECT'S CONTRIBUTIONS TO TURKEY

The main aim of vocational and technical education is to train manpower that industry needs. The characteristics of the manpower also change as the production methods, equipment and tools used in industry change. Therefore, there is a close correlation between vocational and technical education and technological and scientific studies.

As in all over the world so in our country, the biggest problem is unemployment. According to the 2002 figures, only 21.3 million of the existing 23.8 million workforces can be employed. However, enterprises claim that they cannot find qualified workforce.

According to the general population census in 2000, Turkey's population is 67.803.927, 34 million being under the age of 25. Within the next 20 years, 34 million workforces will enter the labor market. It is estimated that the population of Turkey would be 101 million by the year 2050.

This great workforce, if trained well and fully employed after vocational education, Turkey's standard of living may be improved. Otherwise, the increasing unemployment problem would also give rise to new problems.

The project of the Establishment of Industrial Automation Technologies Department, which started in the 2001-2002 academic year and pilot implementation of which is still continuing at two schools will give its first graduates in April 2006.

The educational program of the project department was prepared together with the representative from industries and in line with their demands. At the meetings held with industrialists, revisions and innovations have been made taking their views into account and it is estimated that these graduates will be fully employed.

At Industrial Automation Technologies Department, education is given in the fields of mechanics and computer combined with electricity, electronics and information technologies. For this reason, all demands for human resources ranging from traditional to modern industry will be met.

Our ministry has made the decision to expand this department which will meet the demand of today's industry for manpower to 20 more schools throughout the country. Also, it is planning to train the teachers who will be assigned to these departments at the Training Centre to be established at Izmir Mazhar Zorlu Anatolian Technical High School.

After taking 9-month training at the Training Centre, the teachers at the expansion schools will educate the students at Industrial Automation Technologies Departments at their school.

Since they will be taught English, those who graduate from these departments can be employed not only in Turkey but also in European Union countries and at the industrial sectors of the Mediterranean Free Trade Countries envisaged to be established in 2010. Thus, the living standards of Turkish people will improve and will be a leader country in terms of workforce.

The most important issue for the efficient and fruitful implementation of the education and training at Industrial Automation Technologies Department at 20 schools within the expansion project is to train the teachers well.

From this standpoint, the role of the Development of Industrial Automation Technologies Department and Teacher Training Centre to be established at Izmir Mazhar Zorlu Anatolian Technical High School is of great significance.

Questions for the Establishment Plan of TTC

1. Time schedule
2. Estimated budget
 - (1) for TTC
 - (2) for 20 schools
3. Instructors for TTC
 - (1) Number
 - (2) How to recruit
5. Administration of TTC
 - (1) Position of TTC in the organization of MONE
 - (2) Is TTC established as permanent organization?
 - (3) Are the administration staffs of TTC newly recruited?
6. Equipment plan of TTC
7. Training program of TTC
 - (1) Contents of 8-9 months
 - (2) Curriculum and textbook
 - (3) Practice
8. Recruiting trainees of TTC
 - (1) Is it possible for each school to send 3 teachers for 8-9 months training?
9. Equipment plan of 20 schools
 - (1) Progress of procurement
 - (2) How to manage the difference of level and amount of equipment between Izmir/Konya and 20 schools?
10. Others
 - (1) After the accomplishment of 300 teachers
 - (2) Relation with other teacher training institutions
 - (3) Relation with MGEP/SVET project

* 既に事務所、鈴木リーダー、湯川氏が情報収集を行っていることを前提として確認することが必要。

別紙

TTC および 20 校普及計画について

TTC および 20 校への普及計画に関し、トルコ教育省から説明があった内容は以下のとおり(5月18日および20日の協議より)。トルコ側は、日本の協力を期待していたところがあり、内容については、固まっていない部分が多い。当方からは、B 採択ではあるものの、平成 18 年度の予算的状況を勘案すると実現は極めて厳しい旨申し伝えた。

1. 20 校の選定

卒業生を受け入れる産業ニーズのある地域で、自動制御学科の基礎となる、コンピュータ、機械、電気、電子科を既に持っている学校を選定。

2. 計画の進捗

当初は、2005 年に7校、2006 年に7校、2007 年に6校に普及させる予定であったが、計画が前倒しになり、2005 年に10校、2006 年に10校において、学生の受け入れを開始する予定である。最初の年(8年生)は英語を中心とした準備学年となる。

これまで普及計画に関し、第一回は2004年度に普及対象校7校の校長が JICA 研修員として訪日した直後、第二回は5月9日に、アンタリアにおいて10校の校長を集めた会議を開催し、普及計画について協議を実施している。

3. 予算について

TTC の建設予算は確保済みであり、建設はイズミール校の敷地内で進捗中である。TTC の機材費としては75万米ドル(約7800万円 @105)を国家計画省に対し申請中である。内容は事務機器および訓練のための小規模の機材の購入に充てる予定であり、実習はイズミール校の機材を利用して行う予定である。運営経費等については、イズミール校から申請が行われる予定であり、確保については問題ない。

20校への普及計画については、当初4000万ドル(約42億円)を試算していたが、各校の現有の機材の状況も勘案すると2000万ドル(約21億円)程度で足りる見通しであり、右を4年に分けて各校に配賦する予定である。

これまでのところ、2004年予算で7校に対し10万ドルが各校に配賦、一部の機材の購入は開始されている。2005年予算で7校に対し、2006年予算で6校に対し予算が配賦される予定である。

4. 教員の養成

TTC では毎年60人、5年間をかけて300人を養成する予定。2005年に生徒の受け入れを開始する10校の教員の養成を行うために、各校から3名合計30名に対し、2005年9~11月にOJTによる研修を行う予定である。当面はイズミール校、コンヤ校で、アシスタントティーチャー的に授業の中に参加しながら知識・教育技術を習得させていく予定であり、現在建設中のTTCが完成次第(2006年2月)、TTCで訓練を開始する予定である。最初の各3名×10校については、既に人選するよう各校に対して指示を出している。

初年度である2005年は基礎科目中心となる9年生の内容の習得にとどまるので、既に関連科目の経験を持つ教員であることから、OJTのみでも十分に養成することが可能であり、イズ

ミール校、コンヤ校のカウンターパートにも大きな負担にはならない見通し。

2006年9月からは別の30名に対して、10年生の教科、2007年10月からはさらに別の30名に対して11年生の教科に関する訓練を行う予定であり、各教員(訓練生)は各教科のスペシャリストとして養成する。

TTCで養成される教員の分は追加で配置される予定であり、各校の授業に支障がでることはない。

2005年	9月	10校にて8年生の受け入れ開始
	9～11月	3名×10校の教員に対し、9年生の授業にかかるOJTをイズミール、コンヤで実施
2006年	9月	10校で9年生開始。養成された30名の教員が10校にて9年生の授業を開始
		別の30名の教員に対し、10年生の授業にかかる8～9ヶ月の訓練をTTCで開始

5. TTCの指導教官

なお、TTCでの指導教官は、イズミール校、コンヤ校のカウンターパートの中から人選する。情報機械2名、情報電子2名を想定。指導教官として引き抜かれた4名については、他から補充する。

6. カリキュラムおよび教材など

2005年9月までに9年生を、2006年9月までに10年生を教える教員に対するカリキュラム、教材をそろえる必要があるが作成の目処はたっていない。

7. TTCの位置づけ

TTCは自動制御分野の教員の訓練に特化した教育を行うことを目的としており、一般の教員訓練センターとは異なる。また、イズミール校の中のひとつのユニットとして設立するものであり、300名の訓練の後には、ブラッシュアップトレーニングのための機関として活用する予定。

8. EU技術教育拡充計画プロジェクトとの関係

EUのMEGEP/SVETが対象とする学校とは一部重なるが、学科が異なるので重複はない。基本的には別のプロジェクトであり、短期的には直接リンクはしてこないが、将来的にはリンクする可能性はある。

以上

**EC FUNDED PROJECT SCHOOLS
BELONGING TO THE TECHNICAL & VOCATIONAL EDUCATION
GENERAL DIRECTORATE**

No	Name of School	Name of Department	Foreign Language	Equipment
1	ISTANBUL Bağcılar Abdurrahman ve Nermin Bilimli ATHS	Aircraft Maintenance	English	-
2	KAYSERİ Merkez (Center) ATHS	Aircraft Maintenance	English	-

No	Name of School	Name of Department	Equipment
1	ADANA Kiremithane Industry Vocational High School	Electricity – Electronics Technology	+
		Machinery Technology	+
2	ADANA Motor (Engine) Voc. H. S.	Automotive Technology	+
3	ADANA Ceyhan Industry Vocational High School	Vehicle Repair and Maintenance	+
		Electricity – Electronics Technology	+
4	ADANA İsmet İNÖNÜ Industry Vocational High School	Gas Technology	+
		Construction Technology	+
5	ANKARA Gazi Industry Vocational High School	Machinery Technology	+
		Automotive Technology	+
6	ANTALYA Merkez (Center) Industry Vocational High School	Electricity – Electronics Technology	+
		Construction Technology	+
7	BURSA Tophane Industry Vocational High School	Machinery Technology	+
		Plastics Technology	+
8	BURSA Ali Osman Sönmez Industry Vocational High School	Electricity – Electronics Technology	+
		Machinery Technology	+
9	BURSA Orhangazi Industry Vocational High School	Electricity – Electronics Technology	+
		Machinery Technology	+
10	DENİZLİ Şehit Öğretmen Yusuf Batur Industry Vocational H.S.	Electricity – Electronics Technology	+
		Automotive Technology	+
11*	ESKİŞEHİR Atatürk Industry Vocational High School	Metal Technology	+
		Casting Technology	+
		Machinery Technology	+
12	GAZİANTEP Mehmet Akif Ersoy Industry Vocational High School	Electricity – Electronics Technology	+
		Machinery Technology	+
13	GAZİANTEP Mehmet Rüştü Uzel Industry Vocational High School	Electricity – Electronics Technology	+
		Automotive Technology	+

14	İSTANBUL Bağcılar Abdurrahman ve Nermin Bilimli Ind. Voc. H.S.	Gas Technology	+
15	İSTANBUL Küçükköy Industry Vocational High School	Construction Technology	+
		Machinery Technology	+
16	İSTANBUL Bahçelievler Erkan Avcı Industry Vocational High School	Electricity – Electronics Technology	+
17	İSTANBUL Zeytinburnu Industry Vocational High School	Electricity – Electronics Technology	+
18	İSTANBUL Haydarpaşa Industry Vocational High School	Vehicle repair and Maintenance	+
		Metal Technology	+
19	İSTANBUL Küçükçekmece İsmet Aktar Industry Vocational H.S.	Gas Technology	+
		Machinery Technology	+
20	İSTANBUL Sultan Ahmet Industry Vocational High School	Machinery Technology	+
21	İSTANBUL Kadırga Industry Vocational High School	Electricity – Electronics Technology	+
		Jewellery	+
22	İZMİR Bornova Mazhar Zorlu Plastics Industry Vocational H.S.	Plastics Technology	+
23	İZMİR Motor (Engine) Vocational High School	Automotive Technology	+
24	İZMİR Tire Industry Vocational High School	Electricity – Electronics Technology	+
		Machinery Technology	+
25	KAYSERİ Merkez (Center) Industry Vocational High School	Electricity – Electronics Technology	+
26	KOCAELİ Gebze Industry Vocational High School	Electricity – Electronics Technology	+
		Machinery Technology	+
27	KONYA Selçuklu Industry Vocational High School	Machinery Technology	+
		Automotive Technology	+
28	MANİSA Turgutlu Industry Vocational High School	Electricity – Electronics Technology	+
		Machinery Technology	+
29	MALATYA Şehit Kemal Özalper Industry Vocational High School	Electricity – Electronics Technology	+
		Machinery Technology	+
30	MERSİN Tarsus Industry Vocational High School	Machinery Technology	+
		Metal Technology	+

31	MUŞ Merkez (Center) Industry Vocational High School	Automotive Technology	+
		Metal Technology	+
32	SAMSUN Çarşamba Industry Vocational High School	Electricity – Electronics Technology	+
		Automotive Technology	+
33	TRABZON Akçaabat Multiprogram High School	Electricity – Electronics Technology	+
		Gas Technology	+
34	VAN Merkez (Center) Industry Vocational High School	Electricity – Electronics Technology	+

■ Indicates the schools involved both in JICA Expansion Project and EU Project.

Each Schopol will receive approximately 170,000Euro to purchase some educational equipment to their laboratories.

