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ABSTRACT

IDENTIFIERS

This technical and vocational education (TVE) profile on Indonesia is one in a series of profiles of UNESCO member countries. It is intended to be a handy reference on TVE systems, staff development, technical cooperation, and information networking. A two-page overview lists TVE goals, outlines the structure and governance, and lists the six areas into which TVE programs are grouped: Agriculture and Forestry; Engineering; Business and Commerce; Home Technology; Health and Social Works; and Arts and Crafts. Nine diagrams and charts follow this overview and describe further the Indonesian TVE system. They concern the following: organization of the Ministry of Education and Culture; organization of the Directorate General of Primary and Secondary Education; organizational structure of the Directorate of Technical and Vocational Education (DTVE); summary of TVE within the Indonesian education hierarchy; structure of the education system; school ladder, types, and level of skills within the DTVE; ladder structure of school types and labor force pyramid; number of public secondary technical and vocational schools and student population, 1989-90; and list of clusters and study programs within curriculum 1984 for schools of TVE. (YLB)



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NATIONAL PROFILES IN TECHNICAL AND VOCATIONAL EDUCATION IN ASIA AND THE PACIFIC

Indonesia

UNEVOC International Project on Technical and Vocational Education

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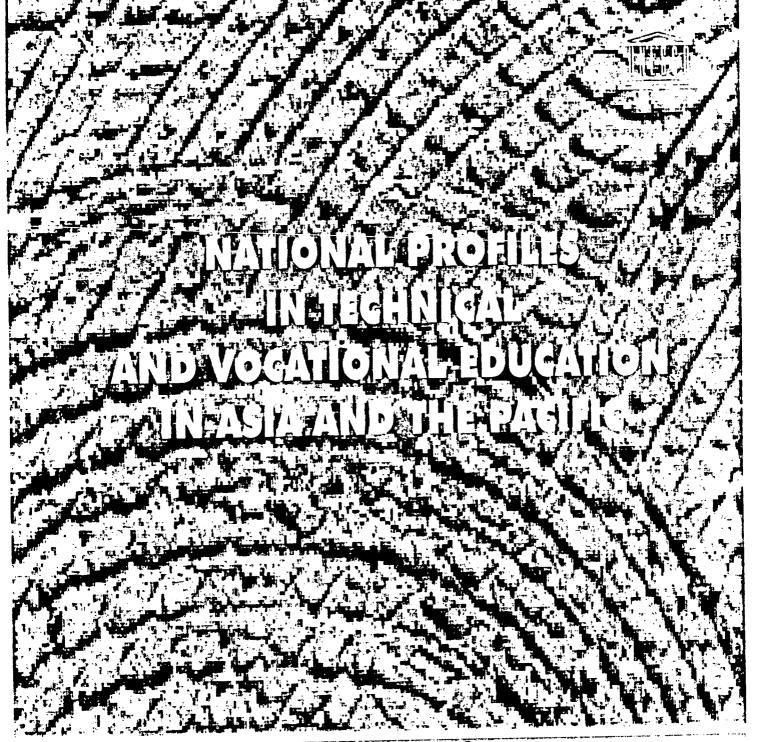
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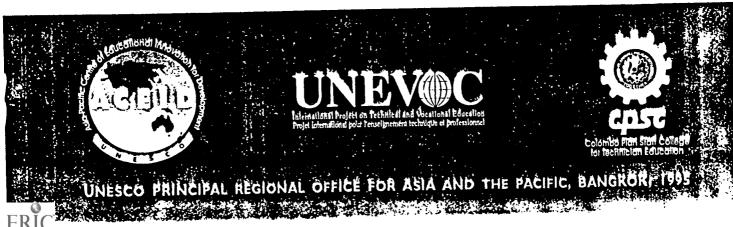
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Indonesia



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PEOPLE'S REPUBLIC OF CHINA PAPUA NEW GUINEA

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INDONESIA SRI LANKA
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FOREWORD

Technical and vocational education has always been an important component of UNESCO's consecutive Medium Term Plans. The basic objective of this programme is to support the efforts of Member States to link education systems more closely to the world of work and to promote the expansion and improvement of technical and vocational education in the light of changing employment needs.

The Colombo Plan Staff College for Technician Education (CPSC) also dedicates itself primarily to enhancing the growth and development of the technician education systems in its member countries which are located in the Asia and Pacific region. Its programmes, projects and activities are geared to provide the needed impetus for the professional development of senior level personnel involved in technician education development efforts.

UNESCO has launched an International Project on Technical and Vocational Education (UNEVOC) as of 1992 in co-operation with the Government of Germany, ILO, FAO, UNDP and NGOs interested in the reform of technical and vocational education. This project focuses on exchanging information, research and experiences on policy and programme issues in technical and vocational through a network of cooperating institutions.

In a spirit of co-operation between UNESCO and CPSC, under UNEVOC, an attempt is being made to compile and publish studies on the development of technical and vocational education in Member States in the form of TVE profiles of 21 countries. It is hoped that this series will serve as a handy reference information on TVE systems, staff development, technical co-operation and information networking. These studies have been possible because of the full co-operation to UNESCO PROAP and CPSC by all concerned in the Member States.

The opinion expressed in this study are those of the authors and do not necessarily reflect the position of UNESCO and CPSC in this regard. This profile on Indonesia was prepared by Prof. Lemuel M. Miravalles, Seconded Faculty Member to CPSC by the Government of Philippines.

C.K. Basu Director, CPSC Victor Ordonez
Director, UNESCO PROAP



TECHNICAL AND VOCATIONAL EDUCATION SYSTEM

AN OVERVIEW

The goals of the Indonesian technical and vocational education (TVE) system are in accordance with the national goals as contained in the National Planning Guidelines, 1988. These TVE goals are described as follows:

- 1. As an educational institution, a senior technical and vocational school aims to educate its students in order for them to become complete Indonesian citizens based on *Pancasila*, encourage self-development and take responsibility for the growth of the nation.
- 2. As a vocational education institution, a senior technical and vocational school aims to provide skills to students as an initial preparation for the world of work in accordance with the identified requirements.
- 3. Pursuant to the principle of life-long education, a senior technical and vocational school aims to provide additional skills to enable students to strengthen their vocational skills and enable them to continue their studies at a higher level of education.

The Directorate of Technical and Vocational Education (DTVE), a sub-system of the Directorate General of Primary and Secondary Education within the Ministry of Education and Culture, is responsible for TVE at the secondary level.

In carrying out its task, the DTVE has the following major functions: (1) setting up the policies for technical and vocational education which consist of home economics, social work, business studies, technical and agricultural studies, and art and craft; (2) conducting development of TVE; and (3) carrying out the administrative work of the Directorate.

TVE within the secondary education sector in Indonesia has two main components: (1) Junior Technical and Vocational Schools (three years); and (2) Senior Technical and Vocational Schools (three or four years). Entry pre-requisites for the Senior Technical and Vocational Schools are successful completion at the Junior level and an age limit of not more than 19 years of age.

Based on Curriculum of 1984 which has been in place since school year 1985-1986, the TVE programmes are grouped into six areas as follows:



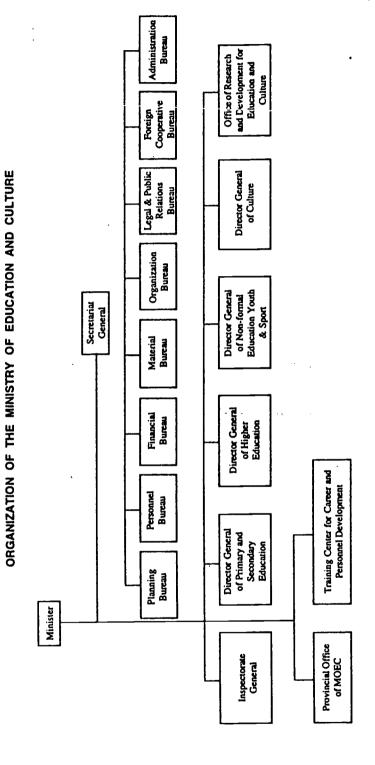
- 1. Agriculture and Forestry
- 2. Engineering
- 3. Business and Commerce
- 4. Home Technology
- 5. Health and Social Works
- 6. Art and Crafts

Each group consists of one or more clusters and one cluster comprises one or more study programmes. At present, there are thirty-nine clusters and 100 study programmes for the senior secondary technical and vocational level and twelve study programmes for the junior level that can be chosen by each school based on the conditions of teachers and faculties in the respective schools and the needs of the region.

The following diagrams and charts describe further the Indonesian TVE system.



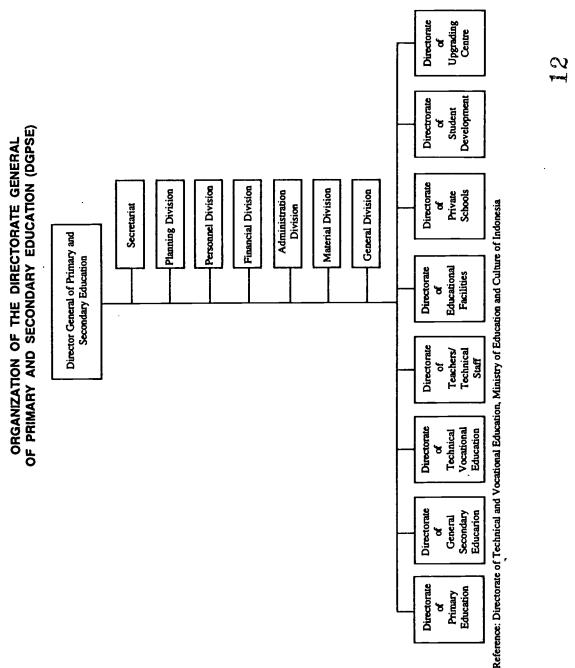




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Organization of the Directorate General of Primary and Secondary Education (DGPSE)

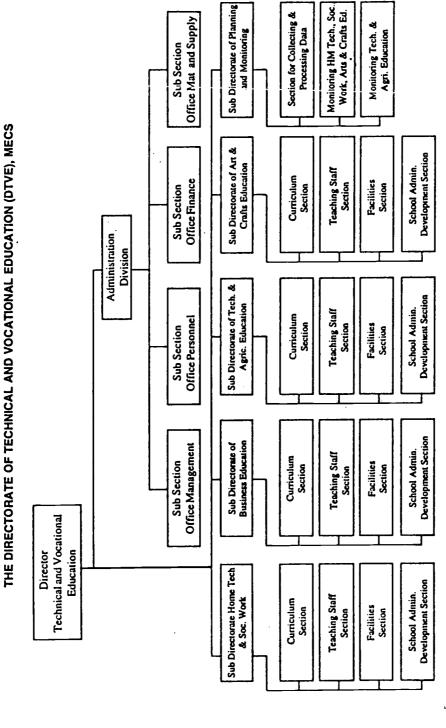




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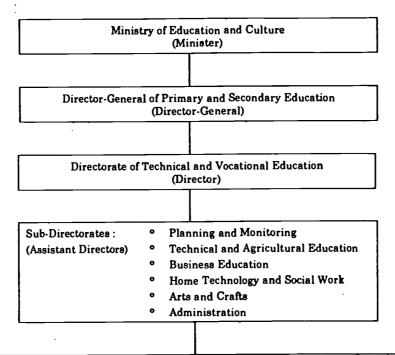


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ORGANIZATIONAL STRUCTURE OF

Summary of Technical and Vocational Education within the Indonesian Education Hierarchy



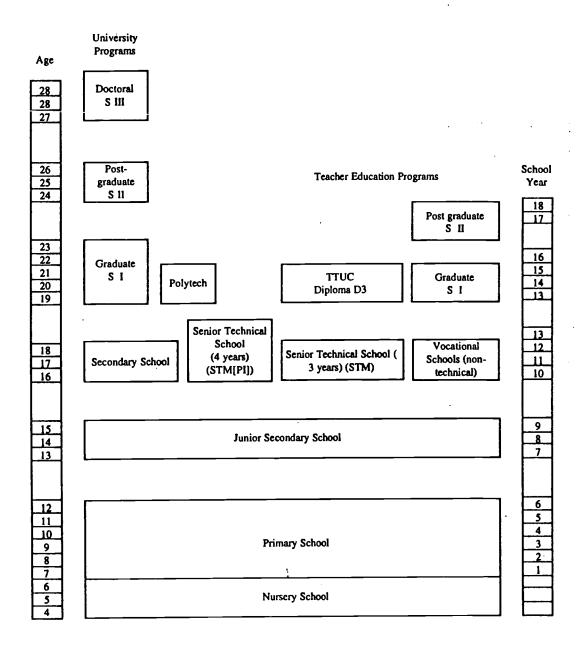
Secondar	y Schools of Technical and Vocation (Principal)	onal	Education
Senior Secondary Level		-	
Technical	STM (3 years) & TTC/BLPT		Engineering
Agricultural	STM Pembangunan (4 years)	-	Engineering
Education:	SMT Grafica (3 years)	•	Graphics
	SMT Penerbangan (3 years)	•	Aviation
	SMT Perkapalan (3 years)	•	Ship Building
	SMT Pertanian (3 years)	•	Agriculture
Business Education:	SMEA (3 years)	-	Business
Home Technology	SMKK (3 years)		Home Economics
and Social Works:	SMTK (3 years)	•	Home Technology
	SMPS (4 years)	•	Social Work
Arts and Crafts Education:	SMKI (4 years)		Traditional Arts & Music
	SMIK (4 years)	•	Handicrafts
	SMSR (4 years)	•	Fine Arts
	SMM (4 years)	·	Music
Junior Secondary Level	ST (3 years)		Technical*
	SKKP (3 years)		Home Economics*

^{*} Being phased out.

Reference: Directorate of Technical and Vocational Education, Ministry of Education and Culture of Indonesia

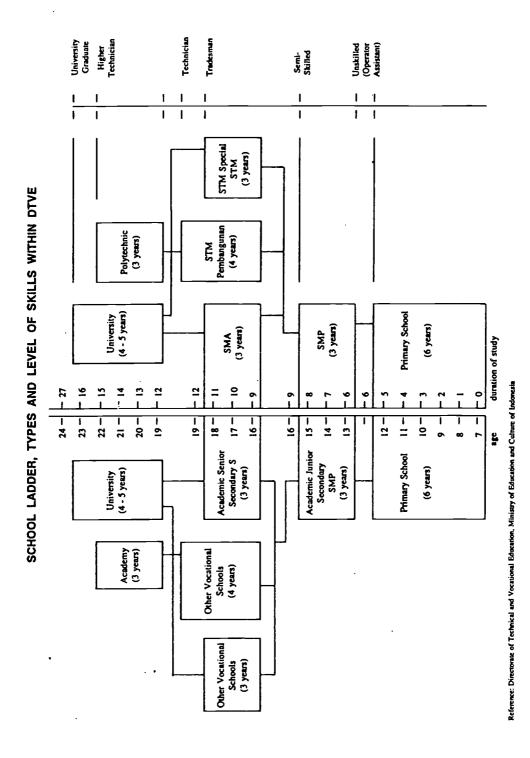


STRUCTURE OF EDUCATION SYSTEM



Reference: Directorate of Technical and Vocational Education, Ministry of Education & Culture of Indonesia

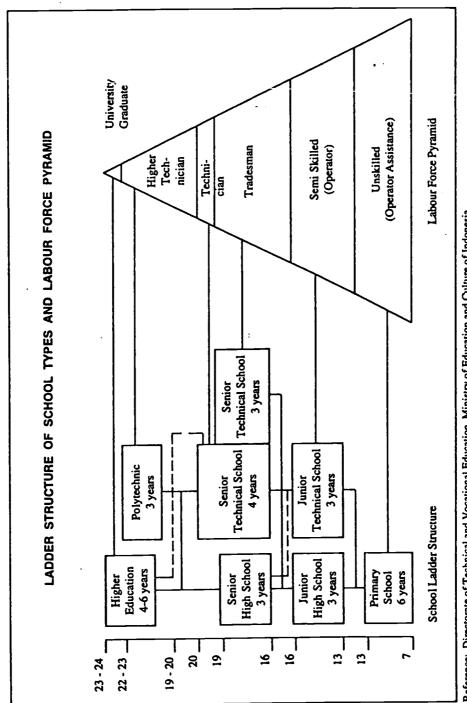




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Reference: Directorate of Technical and Vocational Education, Ministry of Education and Culture of Indonesia



Number of Public Secondary Technical and Vocational Schools and Student Population, 1989 - 1990

No.	s	Number of School	Students Population	
1.	ST	: Junior Technical School	193	75,757
2 .	SKKP	: Junior Home Economic School	74	14,810
3.	STM	: Senior Technical School	149	129,367
4.	STM Pembangunan	: Senior Technical High School (4 years)	8	7,771
5.	SMEA	: Senior Business and Commerce School	324	233,257
6.	SMKK	: Senior Home Economic School	84	36,292
7.	SMTK	: Senior Home Technology School	6	4,459
8.	SMPS	: Senior Social Work School	14	6,326
9.	SMKI	: Senior Traditional Art and Performance School	8	4,383
10.	SMM	: Senior Music School	3	571
11.	SMSR	: Senior Fine & Art School	6	2,478
12.	SMT Perkapalan	: Senior Ship Building School	1	630
13.	SMT Grafika	: Senior Printing School	2	938
14.	STM Kimia	: Senior Chemical School	3	992
15.	STM Pertanian	: Senior Agricultural School	31	14,288
		TOTAL	916	532,319

Reference: Directorate of Technical and Vocational Education, Ministry of Education and Culture of Indonesia.



List of Clusters and Study Programmes within Curriculum 1984 for Schools of Technical and Vocational Education

No.	Group	Cluster	Study Programme	Duration of Study (Year)	Type of School
1	2	3	4	5	6
1.	Agriculture and Forestry	1. Agronomy	1.1 Food-plant and Horticulture Production 1.2 Plantation Production 1.3 Plantation Production	3 years 3 years 4 years	STM Pertanian and SMT Pertanian SPbMA
		2. Animal Husbandry	2.1 Livestock Production	3 years	SMT Pertanian
		3. Fishery	3.1 Fish Culture Production 3.2 Fish Catching Techniques	3 year s 3 years	SMT Pertanian SMT Pertanian
		4. Agricultural Mechanization	4.1 Agricultural Mechanic	3 years	SMT Pertanian
		5. Agricultural Product Processing	5.1 Agric, Product Processing 5.2 Agric, Product Processing	3 years 4 years	STM Pertanian and STM Pertanian
		6. Mixed Farming	6.1 Mixed Farming	3 years	SMT Pertanian, SFM
2.	Engineering	1. Building	1.1 Civil Drawing 1.2 Surveying and Mapping 1.3 Building Construction 1.4 Civil Construction 1.5 Building Construction 1.6 Civil Construction	3 years 3 years 3 years 3 years 4 years 4 years	STM STM STM STM STM Pembangunan STM Pembangunan
		2. Electronics	2.1 Industrial Electronics 2.2 Communication Electronics 2.3 Industrial Electronics 2.4 Communication Electronics 2.5 Transmission Technology 2.6 Telecommunications	3 years 3 years 4 years 4 years 4 years 4 years 4 years	STM STM STM Pembangunan STM Pembangunan STM Pembangunan STM Pembangunan
		3. Electrical	3.1 Domestic Electrical Installation 3.2 Industrial Electrical Installation 3.3 Industrial Electrical Installation 3.4 Electrical Power	3 years 3 years 4 years 4 years	STM STM STM Pembangunan STM Pembangunan
		4. Metal Works	4.1 Metal Fabrication 4.2 Machining 4.3 Advanced Machining	3 years 3 years 4 years	STM STM STM Pembangunan
		5. Mechanical	5.1 General Mechanics	3 years	STM
		6. Automotive	6.1 Auto Mechanics 6.2 Automotive	3 years 4 years	STM STM Pembangunan
		7. Industrial	7.1 Process Control 7.2 Metal and Glass Instrumentation	4 years 4 years	STM Pembangunan STM Pembangunan
		8. Refrigeration and Air-conditioning	8.1 Refrigeration and Air conditioning	4 years	STM Pembangunan
1		9. Mining Geology	9.1 Mining Geology	4 years	STM Pembangunan
		10. Chemistry	10.1 Industrial Chemistry 10.2 Industrial Chemistry 10.3 Analytical Chemistry	3 years 4 years 4 years	STM STM Pembangunan STM Pembangunan



No.	Group	Cluster	Study Programme	Duration of Study (Year)	Type of School
1	2	3	4	5	6
-		11. Textile	11.1 Spinning	3 years	STM
		Manufacturing	11.2 Weaving	3 уеага	STM
		Mandiacturing	11.3 Knitting	3 years	STM
			11.4 Textile Finishing	3 years	STM
			11.5 Spinning	4 years	STM Pembangunan
			11.6 Weaving	4 years	STM Pembangunan
			11.7 Knitting	4 years	STM Pembangunan
			11.8 Textile Finishing	4 years	STM Pembangunan
			11.0 Textile I illisting	4 Jeans	D 1 1 Canoning amon
		12. Graphics	12.1 Graphics	3 усага	SMT Grafika
		•	12.2 Graphic Production	3 years	SMT Grafika
		13. Shipbuilding	13.1 Maintenance and Repair of Ships Structure	3 years	STM Perkapalan
			13.2 Maintenance and Repair of Ships Engine	3 years	STM Perkapalan
			13.3 Welding and Ship Building	3 уеага	STM Perkapalan
			13.4 Ship Design	3 years	STM Perkapalan
			13.5 Ship Repair and Maintenance	3 years	STM Perkapalan
			13.6 Ship Engine Repair and Maintenance	3 years	STM Perkapalan
		14. Airframe	14.1 Aircraft Frame Construction	3 years	STM Penerbangan
		14. Airirame	14.2 Aircraft Body Frame Construction	3 years	STM Penerbangan
	·	15. Aircraft Production	15.1 Machining - Milling 15.3 Machining - Lathe Work	3 years	STM Penerbangan STM Penerbangan
		16. Aircraft Accessories	16.1 Aircraft Electrical Installation 16.2 Aircraft Electrical Installation	3 years 3 years	STM Penerbangan STM Penerbangan
		17. Aircraft Maintenance	17.1 Aircraft Mechanics and Air Frame	3 years	STM Penerbangan
			17.2 Aircraft Electrics and Instrumentation	3 years	STM Penerbangan
			17.3 Aircraft Electronics	3 years	STM Penerbangan
		18. Interior Design and Fittings	18.1 Interior Fitting	3 years	STM
1		19. Shipping	19.1 Navigation	4 years	SPM
		Transportation	19.2 Engineering	4 years	SPM
3.	Business and Office	1. Finance	1.1 Accounting	3 years	SMEA
I		2. Office Administration	2.1 Office Practice	3 years	SMEA
		_: -: -: -: -: -: -: -: -: -: -: -: -: -:	2.2 Secretarial	3 years	SMEA
		3. Business	3.1 Marketing Management	3 years	SMEA
		4. Co-operatives	4.1 Co-operative Marketing Management	3 years	SMEA
			4.2 Co-operative Investment and Loan Management	3 years	SMEA
		5. Tourism	5.1 Travel	3 years	SMEA
4.	Health and Social	1. Social Work	1.1 Social Medical Work	4 years	SMPS
l ^{3.}	Work	i. Social WOLK	1.1 Social Medical Work	4 years	SMPS
1	, work	l	1.3 Social Rehabilitation Work	4 years	SMPS
l	1		1.4 Social Public Development Work	4 years	SMPS
		<u></u>	1.5 Social Rural Public Development Work	4 years	SMPS

No.	Group	Cluster	Study Programme	Duration of Study (Year)	Type of School
1	2	3	4	5	6
5.	Home Economics	1. Beautician	1.1 Beautician	3 years	SMTK and SMKK
		2. Food Technology	2.1 Nutrition	3 years	SMTK and SMKK
			2.2 Food Services (Restaurant and Catering)	3 years	SMTK and SMKK
			2.3 Bakery (Breads and Cake)	3 years	SMTK and SMKK
		3. Tourism	3.1 Hotel Management	3 years	SMTK and SMKK
		4. Home Economics	4.1 Food	3 years	SMKK
	ì		4.2 Clothing	3 yeara	SMKK
			4.3 Housekeeping	3 years	SMKK
6.	Culture	1. Fine Arts	1.1 Decoration	4 years	SMSR
			1.2 Graphic Communication	4 years	SMSR
			1.3 Craft Design	4 years	SMSR
		,	1.4 Painting	4 years	SMSR
	ļ.		1.5 Sculpture	4 years	SMSR
	•	2. Handicrafts	2.1 Painting/Basketry	4 years	SMIK
		1	2.2 Ceramics	4 years	SMIK
			2.3 Metal Craft	4 years	SMIK
			2.4 Wood-carving	4 уеага	SMIK
	i		2.5 Batik	4 years	SMIK
		2.6 Leather work	4 years	SMIK	
		3. Performing Arts	3.1 Traditional Music	4 years	SMKI
	ł		3.2 Traditional Dance	4 years	SMKI
			3.3 Traditional Wayang Puppet Theatre	4 years	SMKI
			3.4 Arts Theatre	4 years	SMKI
		4. Music	4.1 Performance	4 years	SMM





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