Osaka Prefectural Jyoto Technology High School Hitoshi Tanabe, Teacher

Tuesday, March 4, 202 (daily coordinator)

Nitchoku



Osaka Prefectural Jyoto Technology High School



学科・コースの紹介







Established in 1929

Graduates: Over 28,000

- Tadao Ando, architect

- Akio Tanii, 4th president of Panasonic Corporation

Courses in place

- Mechanical (2 classes)
- Electrical (2 classes)
- Mechatronics (1 class)
- A technical high school focused on regional industry collaboration, promoting corporate partnerships and incorporating hands-on production training to develop practical workplace leaders

Tuesday, March 4, 2025



Today's Presentation Topics

- 1. Background of the exchange
 - 2. About lesson improvement
 - 3. International exchange between students
 - 4. Summary

Tuesday, March 4, 2025

1. Background of the Exchange













El-Araby Secondary School

- Established in 2018
- Graduates: About 500
- Courses in place
 - Mechanical engineering (2 classes)
 - Electrical engineering (2 classes)
 - Air-conditioning technology (2 classes)

Newly introduced in 2023

- Logistics (1 class)
- The school is jointly operated by the private sector and the national government. Students learn practical skills while working at an adjacent factory two days a week. Graduates go on to work at the factory.

nduates 2025 Nitchoku (daily coordinator)



Requests from Egypt

Curriculum content

令機	和 2	2年	度教育	課程	(深化)										大阪府立	成東工科高	等学校		
学年	系	専科	1 2	3 4	5 6	7 8	9 10	11	12 13	14 15	16 17	18 19	20 21	22 23		26 27	28 29	30	31
2 年	機械	機械技術	国語総合	現代社会	数学Ⅱ	物理基礎	体育	保健	英語表現I	家庭基礎		機械技術実習		機械製図	※生産システム	※機械工作	機械設計	L H R	C T
年	被	機械設計	国語総合	現代社会	数学Ⅱ	物理基礎	体育	保健	英語表現I	家庭基礎		機械設計実習		機械製図	※生産システム	※機械工作	機械設計	L H R	△ C T
3	機	機械技術	現代文A	数学Ⅱ	世界史A	体育	選択		課題研究		機械技術実習		機械製図	環境工学	機械設計	原動機	※電子機械	L H R	C T
3 年	機械	機械設計	現代文A	数学Ⅱ	世界史A	体育	選択		課題研究		機械設計実習		機械製図	環境工学	機械設計	原動機	※自動車工学	L H R	△ C T

Hands-on training equipment



Evaluation method



Requests from Japan

Interaction between students



Tuesday, March 4, 2025

Today's Presentation Topics

- 1. Background of the exchange
- 2. About lesson improvement
 - 3. International exchange between students
 - 4. Summary

Tuesday, March 4, 2025

2. About Lesson Improvement

Initiatives in 2023

April

Prior discussion

Timetable preparation Instruction manual for hands-on training Hands-on training equipment Evaluation criteria

June

October

Opinion exchange

Materials shared B.

From Japan
Instruction manual
Lesson plans Syllabus From Egypt Lesson plans



Hands-on training equipment in Egypt



Instruction manual for hands-on MCU control training



Evaluation criteria in Egypt

A	x的路·技術	16世月 · 利利 · 查询	と大学的に学習におり得り物質
報名の報言	を身に付け、安全や環境に 配慮することができるよう	工等的規範的に関する認問 動の解決を目的して、基礎的 を知識と対象を采用し、適切 に利能し、創算工大学を修力 を身に付けるとともに、その 成業を約率に表現する。	改善・向上を目的して意味的 に取り組むままらに、他会の
His	※字載点に基づいて、学習の言う	さりごとに記答し、単年来にも2	日降の研究に立との立て、学習の

Evaluation criteria in Japan

November

Students'

interaction

February Review

Desire to observe classroom lessons

Tuesday, March 4, 2025

Study on Method of Evaluating Learning Outcomes — Japanese Approach from Three Perspectives

Knowledge and skills Thinking, judgment and expression A

Assess whether basic knowledge and skills have been acquired

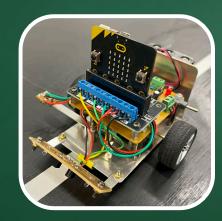


Forward rotation, reverse rotation, braking, etc.





Assess the ability to formulate one's own ideas using basic knowledge and skills, evaluate information, and express thought



Forward, backward, rotation

Judgment by sensor

Attitude toward active learning

Assess whether efforts are being made to acquire knowledge and skills, as well as to develop thinking, judging and expressive abilities



Running faster, more steadily

Nitchoku (daily coordinator)

Tuesday, March 4, 2025

2. About Lesson Improvement

Initiatives in 2023

April

Prior discussion

Timetable preparation

Instruction manual for hands-on training

Hands-on training equipment

Evaluation criteria

June

Materials shared

From Japan Instruction manual Lesson plans Syllabus From Egypt

Lesson plans

meeting Opinion exchange

October



Hands-on training equipment in Egypt



Instruction manual for hands-on MCU control training



Evaluation criteria in Egypt

ã	x地區-技術	12.8 年 - 新新 - 西蒲	こ大学的に手管に関う様々事件
製化の銀江	を身に付け、安全や期間に 配慮することができるよう	限の解決を目的して、基礎的 た知識と技能を活用し、適切 に利断し、創業工大学も終力 を身に付けるとともに、その	改善・向上を目的して意味 に取り組むとともに、他会
_	CAMPAN CO. MINA	さりごとに開催し、単年をにも2	Market day at

Evaluation criteria in Japan

November interaction

February

Review

Desire to observe classroom lessons

Initiatives in 2024

April

June

Prior discussion Videos shared

Select lessons easy to film at each school

Edited to a clip of

about 10 minutes

From Japan Electrical work Measurement From Egypt



Hands-on training

October

Study and discussion

■ ◆ ■ C

Well-organized and tidy

November

interaction

Students

February

l uesday, March 4, 2025

Review

Students'

Nitchoku (daily coordinator)

Observations by the Egyptian side:

- Tools are handled with care
- Each step is carefully checked while working

Today's Presentation Topics

- 1. Background of the exchange
- 2. About lesson improvement
- 3. International Exchange between Students
 - 4. Summary

Tuesday, March 4, 2025

3. International Exchange between Students

2023

April

Prior meeting



Final meeting

October

"About Egypt" exchange learning November

Student exchange



2024

April

Prior meeting

June

September

Final meeting

Early November

Charms of Egypt"

exchange learning

Late November

Student exchange

エジプトとは 国交 | 00年以上

Nitchoku (daily coordinator)

Tuesday, March 4, 2025

re-exchange learning global perspective

3. International Exchange between Students



Line tracers





Automatic water dispenser



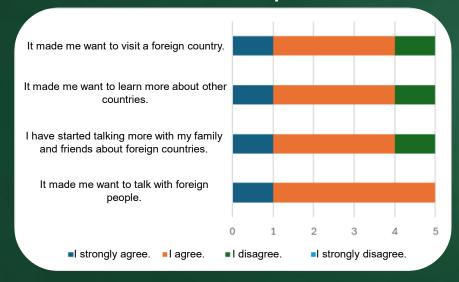
- 1. Background of the exchange
- 2. About lesson improvement
- 3. International exchange between students
- 4. Summary

Tuesday, March 4, 2025

Tuesday, March 4, 2025

4. Summary Japanese side

Results of 2023 questionnaire



Student voices

I rarely have the opportunity to interact with Egyptian students, so I felt this was a very valuable experience. The students were kind, and some even waved at us, so I'm glad we had the opportunity for an online exchange.

I'm glad they were interested in our works as they observed them and asked many questions. We also had the opportunity to see the machinery from El-Araby Secondary School as well. Since both are practical, I thought it would be interesting if we could incorporate them into our school.

This was my first time participating in an online exchange, and I felt that the Egyptian students were kind and had a strong sense of pride. Although I was a bit nervous, I'm glad I went through with it.

Summary

Egyptian side

In promoting Japanese-style education, I was able to understand the philosophy of Japan's manufacturing education.

I was able to learn about hands-on training equipment and teaching methods in Japan.

Student voices

I need programming skills

I understand the importance of learning

I have started considering further education



Future Outlook

We hope to continue this exchange for as long as possible.

We would love for students to have the opportunity to visit each other's schools.

Thank you for your attention today.

Tuesday, March 4, 2025