徳島県立徳島科学技術高等学校

Tokushima Prefectural Senior High School of Science and Technology

Creating Global Engineers

Nurturing talent to respond to the progress and complexity of technology

Education that supports not only those who will seek employment, but those interested in further education

◆School Principles – [Courtesy] [Responsibility] [Service] [Technology]

◆Features - *A curriculum aiming to advance students to university, which doesn't rely solely on classroom study
*A wide variety of fascinating subjects
*Education built around hands-on experience using advanced facilities

◆Branches of learning (Division/Course system)

Full-time system	1st year	2nd, 3rd year
General Science Branch	General Science Division	Information Science Course
		Environmental Science Course
	Marine Science Division	Marine Science Course
General Technology Branch	Machine Technology Division	Mechanical Engineering Course
		Production and Systems Engineering Course
	Electrical Engineering Division	Electrical Engineering Course
		Information and Communications Engineering Course
	Construction Engineering Division	Environmental Construction Engineering Course
		Architecture Course
		General Industrial Design Course
	Marine Technology Division	General Marine Technology Course

◆Curriculum aims

General Science Branch

We aim to produce high-level technology specialists by sending students on to university.

General Technology Branch

We aim to create technicians who can play an active part in the industrial world.

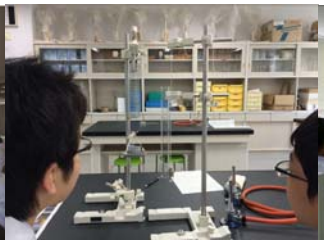
◆Course guide

General Science Branch – General Science Division

◇Information Science Course

Basic Electrical Engineering Training

College Preparation Supplementary Class



Dynamics Practical Training

Programming Class

Aims and Features

In addition to complementing regular science and mathematics classes, this course gives students a foundation of knowledge and skills in I.T. and areas of physics, such as electricity, necessary to progress to a related course at university. These students will aim to enter a four-year course at a national or private university.

Attainable Qualifications

Basic I.T. Technician
I.T. Passport
English Proficiency Test
I.T. Proficiency Test
Etc.

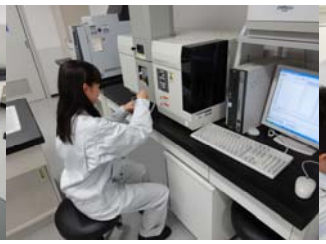
Principal Areas of Specialization

Basic Technical Science and Mathematics
English for the Technology Industry (Writing)
Basic Electrical Engineering
Programming
Multimedia Application
Industrial Materials
Etc.

General Science Branch – General Science Division

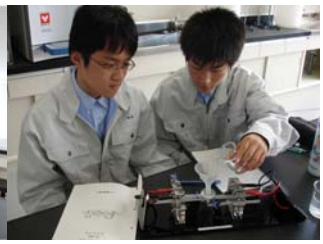
◇Environmental Science Course

Environmental Measurement Practical Class



Atomic Absorption Spectroscopy Practical Training

Chemical Analysis Practical Training



Fuel Cell Experiment

Aims and Features

In addition to complementing regular science and mathematics classes, this course gives students a foundation of knowledge and skills necessary to progress to a related course at university in the field of chemistry, including study of the environment and energy. These students will aim to enter a four-year course at a national or private university.

Attainable Qualifications

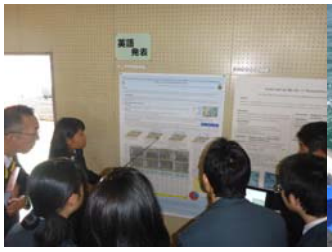
Pollution Prevention Administrator (water quality)
Grade II Boiler Engineer
Handling of Hazardous Materials
English Proficiency Test
Etc.

Principal Areas of Specialization

Basic Technical Science and Mathematics
English for the Technology Industry (Writing)
Global Environmental Chemistry
Programming
Multimedia Application
Industrial Materials
Etc.

General Science Branch- Marine Science Division

◇Marine Science Course



Super High School Poster Presentation

Marine Surveying

Marine Life Field Surveying

Microscopic Observation

Aims and Features

In addition to acquiring specialized knowledge and skills related to marine studies, students study the various environmental problems associated with the ocean. These students will aim to enter a four-year course at a fishery or marine university.

Attainable Qualifications

Diving
Pollution Prevention Administrator (water quality)
English Proficiency Test
Etc.

Principal Areas of Specialization

Seamanship
Marine Environmental Studies
Aquatic Life
Basic Fishery Science
Marine Information Technology
General Marine Practical Training
Etc.

General Technology Branch-Machine Technology Division

◇Mechanical Engineering Course

Lathe Operation

Gear Hobbing Machine Operation

Exhibition at " Ideen Expo"in Germany

Welding Room

Aims and Features

Centering on the basics of industrial manufacturing, from the study of industrial materials to the drafting of plans, students acquire knowledge and skills related to every sphere of the machinery industry.

Attainable Qualifications

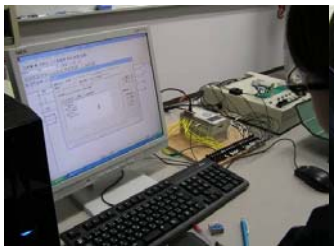
Technician (lathe)
Grade II Boiler Engineer
Handling of Hazardous Materials
Machine Drafting Proficiency Test
Etc.

Principal Areas of Specialization

Basic Technical Science and Mathematics
Machine Design
Machine Construction
Motors
Draftsmanship
Practical Machine Operation
Basic I.T.
Etc.

General Technology Branch-Machine Technology Division

◇Production and Systems Engineering Course



Sequencer Practical Training

CAD/CAM Practical Training

Robotics Practical Training

Microcomputer Practical Training

Aims and Features

Focusing on the fundamentals of machine technology, students acquire knowledge of automated production systems, such as NC machine tools and industrial robots, and the role of electricity in the operation of machines.

Attainable Qualifications

Second Class Electric Work Specialist
Technician (Sequential Control)
Installation Technician (DD3 type)
Etc.

Principal Areas of Specialization

Basic Technical Science and Mathematics
Machine Design
Machine Construction
Production Systems Technology
Electronic Machinery
Electronic Information Technology
Applications of Electronics
Etc.

General Technology Branch- Electrical Engineering Division

◇Electrical Engineering Course

Electric Motor
Practical Training

Electronic Circuit
Practical Training

High Tension Current
Transformer Training

Manufacturing Competition,
Electrical Division

Aims and Features

While learning the basics of electricity, from power generation to application, students acquire practical knowledge and skills related to electrical work. This course creates technicians who will thrive in fields such as the manufacture and administration of electrical equipment, and general electrical work.

Attainable Qualifications

Third Class Electric Chief Engineer
First Class Electric Work Specialist
Second Class Electric Work Specialist
Etc.

Principal Areas of Specialization

Basic Electricity
Electronic Machinery
Electronic Technology
Control and Measurement of Electricity
Electronic Circuits
Etc.

General Technology Branch- Electrical Engineering Division

◇Information and Communications Engineering Course

Programming Practical Training

Sequential Control Practical Training

Manufacturing Competition, (Electronic Circuits Construction Division)

Computer Construction Exercise

Aims and Features

From the basics of computing to such aspects of communication technology as networking and multimedia use, students study to become technicians who can respond to the needs of companies in the communications industry.

Attainable Qualifications

Basic Information Technician
I.T. Passport
Installation Technician (General Division, DD1 Type)
Second Class Electric Work Specialist
Etc.

Principal Areas of Specialization

Basic Electricity
Electronic Circuits
Hardware
Programming
Network Systems
Communications Technology
Software
Multimedia Application
Etc.

General Technology Branch- Construction Engineering Division

◇Environmental Construction Engineering Course

Surveying Practical Training

Geographical Information Systems Training

Material Experiments (Testing Compressive Strength of Concrete)

Use of Small Construction Vehicles

Aims and Features

In this course, students acquire practical knowledge related to surveying, design and construction while gaining computer literacy, in order to become safe, successful civil engineers.

Attainable Qualifications

Grade II Construction Supervisor
Assistant Surveyor
Explosives Control Supervisor
Use of Small Construction Vehicles
Etc.

Principal Areas of Specialization

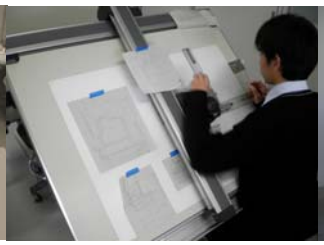
Drafting
Surveying
Civil Engineering
Basic Construction Mechanics
Construction Design
Environmental Engineering
Construction Mathematics
Etc.

General Technology Branch- Construction Engineering Division

◇Architecture Course

Architectural Works Exhibition

CAD Architecture Practical Training



Designing and Drafting

Framing

Aims and Features

In this course, students learn about wooden, steel and reinforced concrete building structures. Additionally, with a focus on designing and drafting, students acquire a practical knowledge of the principles of architecture, including such planning-stage considerations as building safety.

Attainable Qualifications

Grade II Architectural Supervising Technician
Assistant Surveyor
Use of Small Construction Vehicles
Tracing Proficiency Test
Etc.

Principal Areas of Specialization

Architectural Drafting
Building Structure
Building Design
Architectural Construction
Building Regulations
Architectural Planning
Etc.

General Technology Branch- Construction Engineering Division

◇General Industrial Design Course

Wood Processing Practical Training

2D Composition

Packaging Design

CG Practical Training

Aims and Features

Students acquire creative and practical skills related to every field of design focusing on Interior Design. Aiming to realize each individual student's goals for the future we foster in them an ability to respond independently to the changing face of modern technology.

Attainable Qualifications

Lettering Proficiency Test
Tracing Proficiency Test
Interior Designer
Color Application Proficiency Test
Graphic Design Proficiency Test
Interior Coordinator
Etc.

Principal Areas of Specialization

Drafting
Furnishings
Interior Planning
Color Planning
Design Technology
Computer-Aided Design
History of design
Etc.

General Technology Branch- Marine Technology Division

◇General Marine Technology Course

Ashumaru (school motorboat)

Motorboat Operation Practical Training

Cutter Rowing

Seaweed Harvesting

Aims and Features

Students acquire knowledge and skills related to marine industries and to navigation and control of marine vessels, and, with the help of the school's own motorboat, learn about marine environmental surveys and diving.

Attainable Qualifications

Diving
Small Vessel Piloting
Nautical Technigcian (navigation, engineering)
Etc.

Principal Areas of Specialization

Seamanship
Fishing Vessel Operation
Ship Engines
Marine Environment
Diving
Etc.

◆School Life

Preparation for Job Interviews

Studying in the Classroom

Students' General Assembly

School Sports Festival

School Culture Festival

School Trip in Hokkaido

◆Access

2-1-1, Kitayaso-cho, Tokushima-city, Tokushima Prefecture, 771-0144
TEL 088-631-4185
FAX 088-631-1110
E-mail tokushima_hst@mt.tokushima-ec.ed.jp
URL http://tokushima-hst.tokushima-ec.ed.jp