



**MALAYSIA-CHINA
YOUTH
TVET TRAINING**

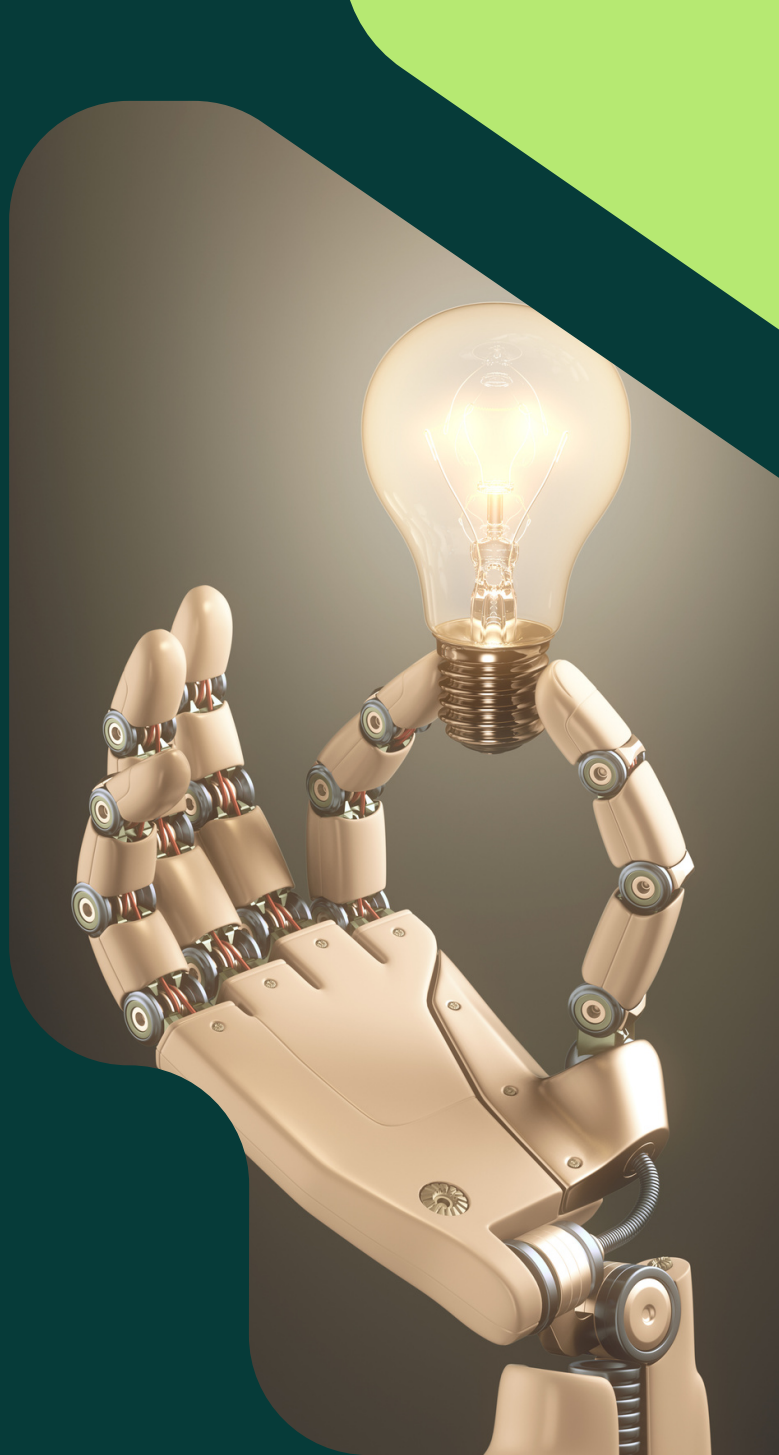


唐风国际教育
Tang International Education

TAHUN 2024

PANDUAN 210 BIDANG UTAMA LATIHAN

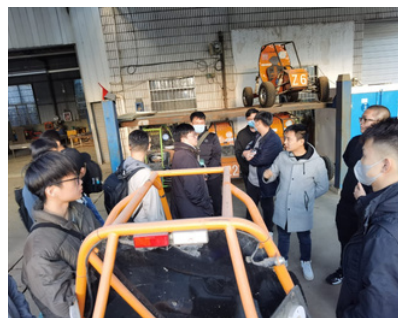
Malaysia-China Youth TVET Training



PANDUAN 210 BIDANG UTAMA LATIHAN ini terbahagi kepada dua (2) bahagian iaitu:

**BAHAGIAN 1:
SENARAI KURSUS/BIDANG LATIHAN YANG
DI TAWARKAN**

**BAHAGIAN 2:
DEFINISI KURSUS/BIDANG DAN MAKLUMAT TUGASAN
LATIHAN**





BAHAGIAN 1:

**SENARAI
KURSUS/BIDANG
LATIHAN YANG
DI TAWARKAN**

SENARAI KURSUS/BIDANG LATIHAN YANG DI TAWARKAN

1. Seed production and management
2. Modern agricultural technology
3. Plant protection and quarantine technology
4. Tea production and processing technology
5. Chinese herbal medicine cultivation and processing technology
6. Modern agricultural equipment application technology
7. Agricultural product processing and quality inspection
8. Green food production technology
9. Agricultural product circulation and management
10. Forestry technology
11. Garden technology
12. Flower production and floriculture
13. Forest and grassland resource conservation
14. Wood industry intelligent equipment application technology
15. Wood product design and manufacturing
16. Animal medicine
17. Animal epidemic prevention and quarantine
18. Intelligent breeding of livestock and poultry
19. Animal nutrition and feed
20. Aquaculture technology
21. Marine fishery technology
22. Land and resources investigation and management
23. Mineral geological exploration
24. Identification and processing of gemstones
25. Engineering geological survey
26. Hydrology and engineering geology
27. Drilling engineering technology
28. Engineering surveying technique
29. UAV mapping technology
30. Spatial digital modeling and application technology

SENARAI KURSUS/BIDANG LATIHAN YANG DI TAWARKAN

31. Oil and gas storage and transportation technology
32. Drilling technology
33. Petroleum Engineering Technology
34. Mine electromechanical and intelligent equipment
35. Intelligent mining technology in mines
36. Environmental engineering technology
37. Water purification and safety technology
38. Safety technology and management
39. Safety intelligent monitoring technology
40. Emergency rescue technique
41. Power plants and power systems
42. Electromechanical equipment and automation of hydropower station
43. Hydropower station and power grid technology
44. Power System Automation Technology
45. Electric power transmission and distribution engineering technology
46. Power supply technology
47. Thermal power engineering technology
48. Solar thermal technology and application
49. Power generation operation technology
50. Power Plant Chemistry and Environmental Technology
51. Photovoltaic Engineering Technology
52. Wind power engineering technology
53. Biomass energy application technology
54. Non-ferrous metal intelligent metallurgy technology
55. Intelligent metal processing technology
56. Building materials engineering technology
57. Big data technology
58. Architectural decoration engineering technology
59. Architectural interior Design
60. Construction engineering technology

SENARAI KURSUS/BIDANG LATIHAN YANG DI TAWARKAN

61. Building steel structure engineering technology
62. Underground and tunnel engineering technology
63. Civil engineering inspection technology
64. Construction equipment engineering technology
65. Heating, ventilation and air conditioning engineering technology
66. Building fire protection technology
67. Project costs
68. Water supply and drainage engineering technology
69. Urban gas engineering technology
70. Real estate operation and management
71. Modern property management
72. Water conservancy engineering
73. Water conservancy and hydropower engineering technology
74. Water conservancy and hydropower construction engineering
75. Installation and management of hydropower station equipment
76. Hydropower station operation and intelligent management
77. Water and soil conservation technology
78. Mechanical design and manufacture
79. Intelligent manufacturing equipment technology
80. Industrial design
81. Industrial engineering technology
82. Intelligent welding technology
83. Industrial product quality testing technology
84. Motor and electrical technology
85. New energy equipment technology
86. Refrigeration and air conditioning technology
87. Elevator engineering technology
88. Mechatronics technology
89. Industrial robot technology
90. Industrial Internet application

SENARAI KURSUS/BIDANG LATIHAN YANG DI TAWARKAN

91. Railway rolling stock manufacture and maintenance
92. Rail transit communication signal equipment manufacturing and maintenance
93. Ship engineering technology
94. Ship electrical engineering technology
95. Aircraft engine manufacturing technology
96. Aircraft maintenance technology
97. UAV application technology
98. New energy vehicle technology
99. Automotive electronics technology
100. Food biotechnology
101. Biological product inspection and quarantine
102. Petroleum refining technology
103. Petrochemical technology
104. Furniture design and manufacturing
105. Footwear design and craftsmanship
106. Jewelry technology and management
107. Packaging engineering technology
108. Packaging planning and design
109. Printing equipment application technology
110. Modern textile technology
111. Garment design and craft
112. Textile design
113. Intelligent food processing technology
114. Food quality and safety
115. Food nutrition and health
116. Food inspection and testing technology
117. Drug quality and safety
118. Food and drug supervision and administration
119. Rehabilitation engineering technology
120. Health food quality and management

SENARAI KURSUS/BIDANG LATIHAN YANG DI TAWARKAN

121. Grain engineering technology and management
122. Grain storage and transportation and quality safety
123. Railway engineering technology
124. High-speed railway construction and maintenance
125. Railway bridge and tunnel engineering technology
126. Railway vehicle technology
127. High speed railway comprehensive maintenance technology
128. Railway signal automatic control
129. Road and bridge engineering technology
130. Road engineering inspection technology
131. Automotive technical service and marketing
132. Automobile inspection and maintenance technology
133. New energy vehicle inspection and maintenance technology
134. Navigation technology
135. Port and waterway engineering technology
136. Marine engineering technology
137. Port and shipping management
138. Ship inspection
139. Container transportation management
140. Helicopter piloting technology
141. Flight attendant
142. Airport operation service and management
143. Aircraft mechanical and electrical equipment maintenance
144. General aircraft maintenance
145. Airport field technology and management
146. General aviation technology
147. Pipeline engineering technology
148. Pipeline transportation management
149. Urban rail transit engineering technology
150. Electronic information engineering technology

SENARAI KURSUS/BIDANG LATIHAN YANG DI TAWARKAN

151. Internet of things application technology
152. Applied electronic technology
153. Electronic product manufacturing technology
154. Mobile Internet application technology
155. Intelligent photoelectric technology application
156. Computer application technology
157. Computer network technology
158. Software technology
159. Information security technology application
160. Artificial intelligence technology application
161. Animation production technology
162. Modern mobile communication technology
163. Communication engineering design and supervision
164. Nursing
165. Traditional Chinese Medicine
166. Traditional Chinese Medicine Orthopedics
167. Acupuncture and Massage
168. Chinese Medicinal Materials Production and Processing
169. Traditional Chinese Medicine Rehabilitation Technology
170. Traditional Chinese Medicine Health Care
171. Medicinal Diet and Diet Therapy
172. Medical laboratory technology
173. Hygiene inspection and quarantine technology
174. Rehabilitation technology
175. Public health management
176. Health information management
177. Preventive medicine
178. Geriatric health care and management
179. Medical nutrition
180. Ocular optometry

SENARAI KURSUS/BIDANG LATIHAN YANG DI TAWARKAN

181. Accounting information management
182. International business
183. Marketing
184. E-Commerce
185. Cross-border e-commerce
186. Logistics engineering technology
187. Modern logistics management
188. Port logistics management
189. Tourism management
190. Tour guide
191. Hotel management and digital operation
192. Tea art and tea culture
193. Cooking craft and nutrition
194. Chinese and western pastry crafts
195. Product art design
196. Apparel and Apparel Design
197. Interior art design
198. Animation design
199. Cultural creativity and planning
200. Network news and communication
201. Digital media equipment application and management
202. Film and television animation
203. Photography and videography technology
204. Modern educational technology
205. Chinese
206. Sports training
207. Physical health and rehabilitation
208. Police command and tactics
209. Criminal investigation technology
210. Smart elderly health care service and management

BAHAGIAN 2:

DEFINISI KURSUS/BIDANG DAN MAKLUMAT TUGASAN LATIHAN

001 SEED PRODUCTION AND MANAGEMENT

Program Name

Seed production and management

Program Definition

Seed production and management mainly studies the basic knowledge and skills of plant physiology, genetics, breeding, seed production and processing, crop pest control, etc., and conducts seed cultivation, production, processing, inspection, storage, management and marketing. For example: screening and breeding of excellent seeds, threshing, drying, selection, grading and packaging of corn, rice and other crop seeds, moisture-proof and insect-proof of seeds, etc.

Core Subject Courses

Plant Physiology, Genetics, Biostatistics, Seed Physiology, Seed Inspection and Quarantine, Crop Cultivation, Crop Breeding, Crop Pest Control, Seed Production and Processing , Seed operation and management, etc.

Employment Prospect

Agricultural enterprises: seed cultivation, seed production, seed inspection, seed processing, seed management, seed marketing.

002 MODERN AGRICULTURAL TECHNOLOGY

Program Name

Modern agricultural technology

Program Definition

Modern agricultural technology mainly studies the basic knowledge and skills of modern agricultural technology, modern agricultural equipment, agricultural information technology, etc., and combines traditional agricultural technology with modern science to realize agricultural mechanization, electrification and scientificization. Common modern agricultural technologies include soilless cultivation technology, intelligent greenhouse farming technology, and drone spraying pesticide technology, etc.

Core Subject Courses

Modern Agricultural Enterprise Operation and Management, Modern Agricultural Equipment, Crop Production Technology, Agricultural Information Technology and Information Management, Modern Agricultural Operation and Management, Modern Agricultural Garden Planning and Design, Agricultural Product Management and Services, Agricultural Materials Management and Services, Plant Production Technology, etc.

Employment Prospect

Modern agricultural enterprises: soilless cultivation, planting technology, breeding of good variety, agricultural technology.

003 PLANT PROTECTION AND QUARANTINE TECHNOLOGY

Program Name

Plant protection and quarantine technology

Program Definition

Plant protection and quarantine technology mainly studies the basic knowledge and skills of plant physiology, plant pathology, agricultural entomology, plant inspection and quarantine, etc., and conducts plant and crop pest control and inspection and quarantine. For example: the prevention and control of plant wilting, rot and pest infestation, the inspection of imported and exported plant diseases and pests, the detection of crop pesticide residues, etc.

Core Subject Courses

Plant and Plant Physiology, Soil and Fertilizer Science, Plant Pathology, Agricultural Entomology, Control Principles and Pesticides, Plant Protection Machinery, Plant Quarantine, Crop Cultivation, Agricultural Ecology and Environmental Protection, Pesticide Marketing, etc.

Employment Prospect

Agricultural enterprises: pest prediction, pest control; Inspection and quarantine enterprises and institutions: plant quarantine, pesticide residue testing, agricultural product safety inspection

004 TEA PRODUCTION AND PROCESSING TECHNOLOGY

Program Name

Tea production and processing technology

Program Definition

Tea production and processing technology mainly studies the cultivation of tea trees and the basic knowledge and skills of tea production, processing, inspection, evaluation, and marketing, and conducts tea tree cultivation, tea production and trade, and tea quality evaluation. For example: the cultivation and picking of tea trees; the screening and processing of different tea leaves such as green tea and oolong tea; the detection, evaluation and management of tea quality grades, etc.

Core Subject Courses

Tea Production Science, Tea Tree Cultivation and Management Technology, Tea Processing Technology, Tea Evaluation Technology, Tea art and tea Culture, Tea inspection Technology, Tea machinery, Tea Marketing Technology, Tea operation and management, etc.

Employment Prospect

Tea companies: tea tree cultivation, tea production, tea processing, tea evaluation, tea inspection, quality management, tea marketing.

005 CHINESE HERBAL MEDICINE CULTIVATION AND PROCESSING TECHNOLOGY

Program Name

Chinese herbal medicine cultivation and processing technology

Program Definition

Chinese herbal medicine cultivation and processing technology mainly studies the basic knowledge and skills of medicinal plant breeding, cultivation, protection, harvesting, and processing, analysis, and identification of traditional Chinese medicines, and conducts planting, processing, and composition analysis of Chinese herbal medicine. For example: planting, cultivation and maintenance of medicinal plants such as angelica, ginseng and ganoderma lucidum, crushing, detoxification and frying of traditional Chinese medicine, production and processing of traditional Chinese medicine pieces such as astragalus, licorice, and notoginseng powder, etc.

Core Subject Courses

Chinese Pharmacy, Chinese Medicine Resources, Medicinal Botany, Medicinal Plant Growth Environment, Plant Physiological Ecology, Medicinal Plant Cultivation, Medicinal Plant Protection, Chinese Medicine Analysis and Identification, Chinese Medicine Preparation and Processing, Pharmaceutical Management, etc.

Employment Prospect

Chinese medicine enterprises: Chinese herbal medicine breeding and cultivation, Chinese medicine preparation, Chinese medicine processing, Chinese medicine composition analysis, Chinese herbal medicine sales.

006 MODERN AGRICULTURAL EQUIPMENT APPLICATION TECHNOLOGY

Program Name

Modern agricultural equipment application technology

Program Definition

Modern agricultural equipment application technology mainly studies the basic knowledge and skills of the structure, design, processing, assembly, testing and other aspects of agricultural machinery and equipment parts and complete machines, and carries out the design, manufacture, assembly, commissioning, maintenance, fault detection, after sales, etc. Common agricultural machinery and equipment include: tractors, ploughing tools, seeders, rice transplanters, harvesters, etc.

Core Subject Courses

Agricultural Machinery and Equipment, Engine Structure and Maintenance, Chassis Structure and Maintenance, Working Machinery Use and Maintenance, Hydraulic Technology, Agricultural Machinery Electrical System Maintenance, Agricultural Machinery Hydraulic System Maintenance, Precision Agricultural Technology, Agricultural Machinery Marketing and Policies and Regulations, etc.

Employment Prospect

Agricultural machinery enterprises: agricultural machinery production, repair and maintenance of agricultural machinery, fault detection, agricultural machinery after-sales

007 AGRICULTURAL PRODUCT PROCESSING AND QUALITY INSPECTION

Program Name

Agricultural product processing and quality inspection

Program Definition

Agricultural product processing and quality inspection mainly studies the basic knowledge and skills of agricultural product processing, production management, quality control, quality inspection, etc., and conducts production, processing and quality inspection of agricultural products in agricultural product processing, quality inspection, health supervision and other industries. For example: processing of corn and sorghum, production of flour and rice, quality inspection of fresh meat, detection of pesticide residues in vegetables, etc.

Core Subject Courses

Biochemistry, Microbiology, Instrument Analysis Technology, Quality Safety of Agricultural Products, Quality Inspection Technology of Agricultural Products, Storage and Processing of Agricultural Products, Quarantine and Control of Pests and Diseases of Agricultural Products, Production Technology of Green Agricultural Products, Food Nutrition and Testing, GAP Certification of Agricultural Products, etc.

Employment Prospect

Agricultural products enterprises: production, processing, storage, quality management, and marketing of agricultural products; testing enterprises and institutions: quality inspection of agricultural products.

008 GREEN FOOD PRODUCTION TECHNOLOGY

Program Name

Green food production technology

Program Definition

Green food production technology mainly studies the basic knowledge and skills of plant physiology, food nutrition, food hygiene, green food production and quality inspection, etc., and conducts product design, production and processing, and quality inspection of green food. For example: the design and production of green snack foods such as canned food and steamed bun slices, the detection of pesticide content in pollution-free vegetables and fruits, the processing and packaging of green food such as dried vegetables and dried fruits, etc.

Core Subject Courses

Green Food Safety and Inspection, Fruit and Vegetable Processing Technology, Green Food Product Design, Food Enterprise Operation and Management, Food Nutrition, Food Processing Technology, Food Analysis Technology, Green Food Quality Inspection, Food Standards and Regulations, Food Hygiene, etc.

Employment Prospect

Green food enterprises: green food product design, food production, food processing, nutritional analysis, quality control; inspection enterprises and institutions: green food quality inspection.

009 AGRICULTURAL PRODUCT CIRCULATION AND MANAGEMENT

Program Name

Agricultural product circulation and management

Program Definition

Agricultural product circulation and management mainly studies the basic knowledge and skills of agricultural economics, rural e-commerce, agricultural product circulation, agricultural product quality control, etc. Students will be familiar with the operation and management concept of modern agricultural market, and conducts agricultural product circulation and management, marketing and comprehensive services. For example: purchase, transportation and storage of agricultural products such as grain, cotton and silk, online sales of vegetables and fruits, etc.

Core Subject Courses

Rural Electronic Commerce, Agricultural Business Supply Chain Management, Agricultural Product Quality Control and Safety Testing, Agricultural Product Marketing Practice, Rural Financial Management, Agricultural Economics, etc.

Employment Prospect

Agricultural enterprises: purchase of agricultural products, transportation of agricultural products, marketing of agricultural products, and warehouse management.

Program Name

Forestry technology

Program Definition

Forestry technology mainly studies the basic knowledge and skills of botany, forest soil science, forest tree seedling production technology, forest cultivation technology, forest management and resource management, etc., and carries out the selection and breeding of improved tree varieties, forest construction, forest pest control and quarantine, forest resources investigation and management, etc. For example: the cultivation and maintenance of forest trees, the prevention and control of tree yellowing disease, mosaic disease and other diseases, the investigation of the types and quantities of forest animal and plant resources, etc.

Core Subject Courses

Botany, Forest Soilology, Forest Tree Seedling Production Technology, Forest Survey Technology, Forest Construction Technology, Wild Plant Resources Cultivation and Utilization Technology, Forest Pest Control Technology, Forest Management, Forest Resources Assets Assessment, Forestry 3S Information, etc.

Employment Prospect

Forestry enterprises: production of forest trees and seedlings, forest cultivation; Government and public institutions: forest protection, forest resource monitoring, forest management.

Program Name

Garden technology

Program Definition

Garden technology mainly studies the basic knowledge and skills of botany, ecology, garden plant cultivation, garden landscape design, garden building construction technology, etc., and carries out the cultivation of garden plants and flowers, and the design of garden art. For example: the production and maintenance of bonsai, the planning of park green space, the design and construction of garden trees, shrubs, ponds and other landscapes.

Core Subject Courses

Plant Physiology, Genetics, Biostatistics, Seed Physiology, Seed Inspection and Quarantine, Crop Cultivation, Crop Breeding, Crop Pest Control, Seed Production and Processing, Seed Operation and Management, etc.

Employment Prospect

Agricultural enterprises: seed cultivation, seed production, seed inspection, seed processing, seed management, seed marketing.

012 FLOWER PRODUCTION AND FLORICULTURE

Program Name

Flower production and floriculture

Program Definition

Flower production and floriculture mainly studies the basic knowledge and skills of flower production technology, flower arrangement skills, etc., and conducts flower production and management, flower design and application, flower environment design, flower business management, etc. For example: flower production, flower design, plant modeling and landscaping, flower cultural and creative product development, etc.

Core Subject Courses

Bouquet Design and Production, Floral Cultivation and Maintenance, Chinese Modern Floral Art Techniques, Garden Construction Technology, Themed Flower Art Design and Production, Flower Facility Cultivation Technology, etc.

Employment Prospect

Flower production enterprises, indoor and outdoor environmental decoration companies, tourism and hotel industries, etc.: flower production and marketing, flower business operation and management, environmental flower design and decoration, flower training lecturers, etc.

013 FOREST AND GRASSLAND RESOURCE CONSERVATION

Program Name

Forest and grassland resource conservation

Program Definition

Forest and grassland resources conservation mainly studies the basic knowledge and skills of forest botany, forest environment, forest ecology, forest protection, forest resources investigation and management, and carries out forest protection and fire prevention, forest animal and plant resources investigation and management, etc. For example, prevention and control of forest diseases and insect pests, such as pine caterpillar and *Bupalus piniarius*, and forest fire; investigation, statistics and management of species and quantity of forest animals and plant resources. For example: pine caterpillar, forest fire, reindeer, silver fir.

Core Subject Courses

Forest Plants, Forest Ecology, Forest Investigation Technology, Zoology, Pathology, Forest cultivation, Forest Fire Prevention, Forestry Pest Control, Forest Resources Investigation and Management, Wildlife Protection and Management, etc.

Employment Prospect

Parks and nature reserves: forest protection, forest fire prevention, forest resource survey, forest resource asset evaluation, forest resource management.

014 WOOD INDUSTRY INTELLIGENT EQUIPMENT APPLICATION TECHNOLOGY

Program Name

Wood industry intelligent equipment application technology

Program Definition

Wood industry intelligent equipment application technology mainly studies the basic knowledge and skills of machinery, wood science, the composition, assembly, installation, debugging and operation of woodworking machinery equipment, and carries out assembling, debugging, running, testing, and maintaining of woodworking equipment, as well as programming and debugging of CNC machinery. Common woodworking equipment includes sawing machines, planers, milling machines, lathes, drilling machines, sanding machines, etc.

Core Subject Courses

Mechanical Drawing, Mechanical Fundamentals, Wood Science, Wood Drying Technology, Lumber Production and Wood Inspection, Wooden Product Manufacturing Process, Woodworking Knives and Machinery, etc.

Employment Prospect

Timber enterprises: installation of woodworking equipment, debugging of woodworking equipment, operation of woodworking equipment, and maintenance of woodworking equipment.

015 WOOD PRODUCT DESIGN AND MANUFACTURING

Program Name

Wood product design and manufacturing

Program Definition

Wood product design and manufacturing mainly studies the basic knowledge and skills of wood science, wood drying technology, wood inspection technology, wood product manufacturing technology, etc., and conducts wood processing and inspection, wood product manufacturing, etc. For example: wood cutting, drying, gluing, surface decoration, inspection and testing of wood length, thickness, hardness and toughness, production of wood-based panels, wood furniture and other wood products, etc.

Core Subject Courses

Mechanical Drawing, Wood Drying, Woodworking Machinery, Wood Science, Adhesives and Coatings, Pneumatic Conveying and In-plant Transportation, Wood-based Panel Production Technology, Wood-based Panel Surface Decoration, Wood-based Panel Quality Inspection, Wood Products Production Technology and so on, etc.

Employment Prospect

Wood-related enterprises: wood drying, wood processing, wood inspection, wood product production.

Program Name

Animal medicine

Program Definition

Animal medicine mainly studies the basic knowledge and skills of animal physiology, animal pathology, animal pharmacology, animal clinical medicine, animal quarantine technology, etc., and carries out prevention, diagnosis and treatment of animal diseases, and inspection of infectious diseases. For example: prevention, diagnosis and treatment of pet animal diseases such as cats and dogs, inspection and treatment of infectious diseases such as rabies, inspection and quarantine of edible meat such as pork and beef, etc.

Core Subject Courses

Animal Anatomy, Animal Physiology, Animal Microbiology and Immunity, Animal Pathology, Animal Pharmacology, Veterinary Clinical Diagnosis and Treatment Techniques, Animal Epidemic Prevention and Quarantine Techniques, Chinese Veterinary Medicine, Animal Internal Diseases, Animal Surgery and Obstetrics, etc.

Employment Prospect

Health and quarantine institutions: animal quarantine, animal disease control, meat hygiene inspection; Veterinary enterprises: animal clinical diagnosis, animal disease prevention and treatment.

017 ANIMAL EPIDEMIC PREVENTION AND QUARANTINE

Program Name

Animal epidemic prevention and quarantine

Program Definition

Animal epidemic prevention and quarantine mainly studies the basic knowledge and skills of animal pathology, animal toxicology, animal diseases, animal health and animal clinical diagnosis, and carries out the prevention, diagnosis, inspection, control and treatment of animal diseases. For example: avian flu, animal plague and other animal disease prevention and control, diagnosis and treatment, meat and other animal food inspection and quarantine, animal product health and safety inspection, etc.

Core Subject Courses

Animal Pharmacology and Toxicology, Animal Pathological Analysis, Animal Disease Prevention and Control Technology, Animal Product Safety Inspection Technology, Animal Clinical Diagnostics, Animal Internal Medicine, Animal Microbiology Fundamentals, Animal Parasitology, Animal Epidemic Prevention and Quarantine, Animal Health Law, etc.

Employment Prospect

Public institutions of health and disease control: animal epidemic prevention and control, animal quarantine, animal food health inspection; Veterinary enterprises: animal disease diagnosis, animal clinical treatment.

018 INTELLIGENT BREEDING OF LIVESTOCK AND POULTRY

Program Name

Intelligent breeding of livestock and poultry

Program Definition

Intelligent breeding of livestock and poultry mainly studies the basic knowledge and skills of animal feeding and management, breeding and improvement, nutritional feed, disease prevention and control, and conducts animal breeding, disease diagnosis and control, production and management of livestock and poultry. For example: cattle, sheep breeding and management, open and semi-closed house design and construction for deer, pig etc., livestock and poultry house inside and outside environmental control.

Core Subject Courses

Environmental Health of Livestock and Poultry, Animal Nutrition and Feed, Pig production, Poultry production, Environmental Control of Livestock Farms, Animal Reproduction, Animal Industrialization Production, Basic Animal Medicine, Animal Disease Prevention and Control, Livestock and Poultry Feeding Management, etc.

Employment Prospect

Animal enterprises: animal feeding, livestock and poultry house construction, livestock and poultry disease prevention, livestock and poultry products production and management, technology promotion.

Program Name

Animal nutrition and feed

Program Definition

Animal nutrition and feed mainly studies the basic knowledge and skills of animal nutrition needs, feed formula and design, compound feed production theory and technology, livestock and poultry production and marketing, and conducts feed quality testing and analysis, feed formula design, feed marketing, animal husbandry production and so on. For example: pig feed production, breeding and feeding of livestock and poultry, feed additive development, nutritional ratio design of various complete feeds, sampling inspection and acceptance of raw and finished feeds, etc.

Core Subject Courses

Anatomy and Physiology of Livestock and Poultry, Microbiology, Feed Raw Materials, Livestock Physiology, Poultry Nutrition, Livestock and Poultry Production and Marketing, Feed Processing Machinery, Feed and Additives, Feed Quality Inspection, Livestock and Poultry Disease Prevention and so on.

Employment Prospect

Feed enterprises: feed nutrition ratio, feed inspection and testing, feed production and sales, livestock and poultry breeding and scientific research experiments.

020 AQUACULTURE TECHNOLOGY

Program Name

Aquaculture technology

Program Definition

Aquaculture technology mainly studies the basic knowledge and skills of aquaculture seedling breeding, finished product breeding, disease prevention and control, and conducts aquaculture animal cultivation, breeding, disease diagnosis, disease prevention and control, fish feed configuration, product processing and marketing, breeding technology services and management. For example: pond fish farming, cage fish farming and fenced fish farming, fish and shrimp and other aquatic feed development, freshwater aquaculture and fishing, aquaculture site selection design, technical input and operation, etc.

Core Subject Courses

Aquatic Biological Basics, Water Quality Monitoring and Regulation, Aquatic Animal Nutrition and Feed, Special Aquatic Economic Animal Breeding, Ichthyology, Aquatic Animal Disease Control, Aquatic Marketing, Ornamental Fish Breeding Technology, Fishery Regulations and Fishery Administration, Aquatic Animal Breeding, etc.

Employment Prospect

Aquatic products enterprises: breeding operations of aquatic products, disease diagnosis and treatment, feed preparation, operation and management, aquaculture water quality analysis, sales and services of aquatic drugs for water environment protection. Government, institutions: aquatic product sanitation and safety, supervision and quarantine, aquatic animal import and export inspection and quarantine.

021 MARINE FISHERY TECHNOLOGY

Program Name

Marine fishery technology

Program Definition

Marine fishery technology mainly studies the basic knowledge and skills of marine fish farming, fishing, and collection, and conducts marine fishing, mariculture, fishery investigation and analysis, and environmental monitoring of fishery waters. For example: fishing of hairtail, large yellow croaker and small yellow croaker, farming, storage, transportation, sales of offshore fishery, fishing boats, fishing gear manufacturing and seafood processing, etc.

Core Subject Courses

Marine fishery technology mainly studies the basic knowledge and skills of marine fish farming, fishing, and collection, and conducts marine fishing, mariculture, fishery investigation and analysis, and environmental monitoring of fishery waters. For example: fishing of hairtail, large yellow croaker and small yellow croaker, farming, storage, transportation, sales of offshore fishery, fishing boats, fishing gear manufacturing and seafood processing, etc.

Employment Prospect

Fishery enterprises: fish breeding, fish disease prevention, marine biological fishing, fishing ground investigation, fishery water environment monitoring, fishery administration, fish products production, processing and marketing.

022 LAND AND RESOURCES INVESTIGATION AND MANAGEMENT

Program Name

Land and resources investigation and management

Program Definition

Land resources investigation and management mainly studies the basic knowledge and skills of land resources (mineral resources, land) survey and information construction and management, and carries out mineral resources and land resources survey, mapping and management, etc. For example: oil, natural gas and other resources exploration, land resources survey, map survey, land resources survey report preparation, land resources information system construction and so on.

Core Subject Courses

Fundamentals of Geology, Fundamentals of Mineralogy, Tectonic Geology, Petrology, Geotectonics, Fundamentals and Applications of Remote Sensing Technology, Introduction to Earth Science, Introduction to Land Resources, Laws and Regulations of Land Resources, Land Classification and Grading, etc.

Employment Prospect

Government and public institutions: mineral resources, land resources survey, national land resources survey, evaluation, information management, cadastral surveying and mapping, real estate management and development, cadastral database construction and surveying and mapping production services.

023 MINERAL GEOLOGICAL EXPLORATION

Program Name

Mineral geological exploration

Program Definition

Mineral geological exploration mainly studies the basic knowledge and skills of geology, mineral characteristics, geological structure, geological exploration methods and other aspects, and carries out mineral resources exploration, mineral resources development, mine geological evaluation and mine management. For example: geological exploration of copper deposits, associated mineral exploration, coal seams, yield, structure measurement and geological mapping.

Core Subject Courses

Geology, Mineralogy, Petrology, Paleontological Stratigraphy, Tectonic Geology, Hydrogeology, Mineral Deposits, Mine Geology, Prospecting and Exploration, Remote Sensing Geology, etc.

Employment Prospect

Geological institutions: geological survey, mineral resource exploration, mineral resource development and utilization, mine geological evaluation and mine management. Mineral enterprises: ore deposit exploration and analysis, structure and production research, geological mapping, development and utilization of mineral resources.

024 IDENTIFICATION AND PROCESSING OF GEMSTONES

Program Name

Identification and processing of gemstones

Program Definition

Identification and processing of gemstones mainly studies the basic knowledge and skills of jewelry identification, design, production, evaluation, diamond grading, etc., and conducts gem and jade design, production and processing, identification, evaluation and trade. For example: jade pendant and other jade carving, diamond testing and identification, production and processing of various gems and jade jewelry, gem synthesis and optimization, jewelry marketing, etc.

Core Subject Courses

General Geology, Crystallography and Mineralogy, Petrology, Jade Identification, Colored Gem Identification, Organic Gem Identification, Fundamentals of Art Design, Gem Processing, Jewelry Design , Jewelry Marketing and so on.

Employment Prospect

Jewelry companies: jewelry appraisal, jewelry design, jewelry production, jade evaluation, gem synthesis and optimization, jewelry marketing and management, pawn auctions, design and production of decorative articles and handicrafts, supply and marketing of jewelry and jade raw and auxiliary materials, jewelry equipment and tools supply and marketing.

025 ENGINEERING GEOLOGICAL SURVEY

Program Name

Engineering geological survey

Program Definition

Engineering geological survey mainly studies the basic knowledge and skills of hydrology and engineering geology, geological hazard survey, high-tech survey, etc., and conducts survey, evaluation, design, construction, testing and management of engineering geology, geological disasters, geotechnical engineering, etc. For example: Geomorphology, hydrogeological conditions, physical and mechanical properties of soil and rock investigation, geological environment investigation and evaluation, road and bridge engineering investigation, debris flow and other natural disaster management.

Core Subject Courses

Basics of Geology, Engineering Surveying, Structural Geology, Hydrogeological Technology, Engineering Geotechnical Technology, Geotechnical Engineering Exploration and Evaluation Technology, Geophysical Exploration Methods, Exploration and Testing, Geological Engineering Drawing and CAD, Engineering Geological Problem Analysis, etc.

Employment Prospect

Construction engineering enterprises: geotechnical engineering survey, building foundation design, geotechnical disaster evaluation and control, foundation engineering construction, monitoring, supervision and engineering measurement. Governments and public institutions: surveys of highways, railways, bridges, tunnels, municipal engineering, foundation testing and construction.

026 HYDROLOGY AND ENGINEERING GEOLOGY

Program Name

Hydrology and engineering geology

Program Definition

Hydrology and engineering geology mainly studies the basic knowledge and skills of urban water supply, groundwater and regional environment, engineering geological exploration, etc., and conducts groundwater investigation, development, utilization, protection and engineering geological exploration. For example: engineering geological exploration of ports, roads, tunnels, reservoirs, etc., groundwater volume, water quality and temperature transmission exploration, prediction and prevention of damage to buildings caused by earthquakes and other disasters.

Core Subject Courses

Geology Fundamentals, Mineral Petrology, Hydrogeology Fundamentals, Water Analytical Chemistry, Structural Geology, Engineering Surveying, CAD, Geophysical Exploration, Engineering Construction, Drilling Engineering, etc.

Employment Prospect

Hydrology and engineering enterprises and institutions: engineering geological survey and design, water conservancy and hydropower survey and design, urban and rural construction planning, road traffic survey and design, environmental monitoring and management, geological engineering construction, geological disaster evaluation.

027 DRILLING ENGINEERING TECHNOLOGY

Program Name

Drilling engineering technology

Program Definition

Drilling engineering technology mainly studies the basic knowledge and skills of land and resources exploration, foundation engineering construction, engineering geological drilling, etc., and conducts geological exploration, engineering survey, construction, engineering supervision and management. For example: oil and natural gas drilling and prospecting, mechanical core drilling and sampling, construction of deep foundation pit support, maintenance and repair of drilling equipment, etc.

Core Subject Courses

Basics of Geology, Drilling Technology, Theoretical Mechanics, Material Mechanics, Engineering Drawing, Drilling Equipment, Drilling Engineering, Drilling Equipment and Maintenance, Engineering Geological Survey, Construction Project Management, etc.

Employment Prospect

Exploration enterprises and institutions: basic engineering survey and construction, mineral deposit exploration, oil drilling, groundwater survey and exploitation, pile-driven foundation construction, reservoir grouting and project management.

028 ENGINEERING SURVEYING TECHNIQUE

Program Name

Engineering surveying technique

Program Definition

Engineering surveying technique mainly studies the basic knowledge and skills of engineering construction, management, surveying, etc., and conducts engineering survey, setting out, construction supervision and related technical management. For example: large and small scale topographic map surveying and mapping, transverse and longitudinal section measurement in the process of road construction; settlement observation and deformation monitoring in building construction; engineering error analysis and data processing, etc.

Core Subject Courses

Introduction to Civil Engineering, Engineering Surveying, Engineering Drawing and CAD, Control Surveying Technology, GPS Surveying Technology, Cadastral Surveying and Land Management, Precision Engineering Surveying, Underground Engineering Surveying, Engineering Deformation Observation, Control Measurement, etc.

Employment Prospect

Engineering construction enterprises and institutions: engineering surveying, land and environmental surveying and mapping, urban and regional planning surveying and mapping, surface and underground engineering surveying, mineral resources exploration and development surveying, deformation observation and surveying and mapping management.

029 UAV MAPPING TECHNOLOGY

Program Name

UAV mapping technology

Program Definition

UAV mapping technology mainly studies the basic knowledge and skills of engineering surveying, cadastral surveying, UAV driving and other aspects, conducting UAV driving and mapping, engineering surveying, digital city construction and geographic information application and maintenance. For example: geographic information system remote sensing acquisition, navigation space location application, film and television media, publicity planning, digital mapping, unmanned logistics, agricultural and forestry broadcasting, forest plant protection, emergency rescue, etc.

Core Subject Courses

Topographic Survey, Digital Mapping Technology, Engineering Survey, GPS Control Survey, UAV Aerial Photogrammetry, etc.

Employment Prospect

Land and Resources Bureau, Planning Bureau, UAV surveying and mapping company, construction company, real estate company, urban planning institute and other enterprises and institutions: UAV surveying and mapping, engineering surveying, urban planning, construction surveying, real estate surveying and mapping, cadastral surveying, digital city construction and geographic information application and maintenance.

030 SPATIAL DIGITAL MODELING AND APPLICATION TECHNOLOGY

Program Name

Spatial digital modeling and application technology

Program Definition

Spatial digital modeling and application technology mainly studies the basic knowledge and skills of surveying, geographic information system technology, cartography technology, television media and network media communication, etc., and conducts map surveying and mapping, geographic information system software application, electronic map data collection, digital image, audio and video processing, etc. For example: draw maps according to a certain scale, use drones for map data collection, use UI, etc. for map website design, etc.

Core Subject Courses

Cartography, Remote Sensing Technology and Application, Digital Image Processing, Multimedia Technology, Surveying, Control Surveying, Engineering Surveying, Photogrammetry and Remote Sensing, Introduction to Communication, Audio and Video Processing Technology, etc.

Employment Prospect

Geographic data collection enterprises and institutions: computer graphics, new media design and production, publicity planning, map website interaction design, map mobile terminal application and development, map data processing and application.

031 OIL AND GAS STORAGE AND TRANSPORTATION TECHNOLOGY

Program Name

Oil and gas storage and transportation technology

Program Definition

Oil and gas storage and transportation technology mainly studies the basic knowledge and skills of oil and gas storage and transportation, equipment use and maintenance, product quality inspection, etc., and conducts oil and gas storage and transportation production, construction, service, management, etc. For example: planning and construction of natural gas pipelines of West-East Gas Pipeline, anti-corrosion design and corrosion testing of oil and gas pipelines and storage tanks, gathering, storage and transportation of refined oil and urban gas, planning, design, construction, management, and technology development and applied research of oil and gas storage and transportation system engineering.

Core Subject Courses

Engineering Mechanics, Engineering Fluid Mechanics, Structural Mechanics, Physical Property Analysis of Stored and transported Oil, Use and Maintenance of Oil and Gas Storage and Transportation Equipment, Oil and Gas Gathering and Transportation, Design and Management of Oil Depot, Oil and Gas Storage and Transportation Engineering, Urban Gas Distribution, Oil and gas Long-distance Pipeline Transportation, etc.

Employment Prospect

Oil and gas enterprises and institutions: oil storage, transportation and blending, comprehensive oil and gas measurement, oil and gas gathering and transportation, oil analysis, long (short) distance oil and gas pipeline construction, equipment operation and maintenance, safety management, gas station operation and management.

032 DRILLING TECHNOLOGY

Program Name

Drilling technology

Program Definition

Drilling technology mainly studies the basic knowledge and skills of drilling basic theory, process technology, production operation and organizational management, and conducts drilling, completion, well testing and downhole operations, maintenance and management. For example: core sampling and testing, design and measurement to determine well position in oil and gas extraction, installation of drilling equipment and testing, mud circulation reinforcement of well wall, etc.

Core Subject Courses

Theoretical Mechanics, Material Mechanics, Fluid Mechanics, Fundamentals of Mechanical Design, Drilling Machinery, Drilling Engineering, Ocean Drilling, Drilling Instrumentation and Automation, Oil and Gas Layer Protection Technology, Analysis and Handling of Common Accidents, etc.

Employment Prospect

Oil and gas exploration enterprises and institutions: drilling, workover, well cementation, oil testing and downhole operations, drilling process design and research.

033 PETROLEUM ENGINEERING TECHNOLOGY

Program Name

Petroleum Engineering Technology

Program Definition

Petroleum engineering technology mainly studies the basic knowledge and skills of oil production, operation, maintenance and production management, and conducts oil extraction, engineering design, engineering construction and management. For example: oil exploration, drilling design and drilling construction, oil and water well maintenance, reservoir reconstruction and oil testing in oil exploration.

Core Subject Courses

Engineering Mechanics, Engineering Drawing and Recognition, Oilfield Chemistry, Oilfield Geology, Fluid Mechanics, Well Logging, Oil Production Engineering, Oil Production Machinery, Reservoir Physics, Introduction to Drilling Machinery, etc.

Employment Prospect

Petroleum production enterprises and institutions: oil and gas drilling, collection, cementing, workover, downhole operations, directional wells, drilling fluids, logging, petroleum engineering design, operation and construction, production management, technology development and research.

034 MINE ELECTROMECHANICAL AND INTELLIGENT EQUIPMENT

Program Name

Mine electromechanical and intelligent equipment

Program Definition

Mine electromechanical and intelligent equipment mainly studies the basic knowledge and skills of mine mechanical and electrical automatic control technology, mine electric drag and control, underground transportation and mine lifting, and carries out mine transportation and lifting, the use, debugging, maintenance, technical transformation and operation of coal mine and non-coal mine mechanical and electrical equipment. For example: mine electric locomotive, coal cutting machine and other mine mechanical and electrical equipment management, operation, use, debugging, maintenance and equipment fault diagnosis and processing; Ore, coal, waste rock, gangue, and staff, equipment up and down lifting, mine locomotive transportation, wire rope transportation, mining conveyor transportation, trackless transportation and hydraulic transportation and other kinds of transportation.

Core Subject Courses

Engineering Mechanics, Hydraulic Transmission, Metal Technology, Fundamentals of Mechanical Design, Mechanical Drawing and CAD, Engineering Drawing, Drawing and Surveying, Introduction to Coal Mining, Mechanical Equipment Repair and Installation, Power Electronics Technology, Mine Power Supply Technology, Mine Electrical Safety, Mine Machinery and Equipment Electrical Control, Excavation Machinery, Mine Electrical Safety, Hydraulic Transmission

Employment Prospect

Mining enterprises and public institutions: installation, operation, maintenance, management and transportation lifting system design of mine transportation lifting equipment, selection and calculation of types, basic structure of mine car and electric locomotive; Power supply in mines, application, debugging, maintenance, technical transformation, operation and management of mechanical and electrical equipment in mines.

035 INTELLIGENT MINING TECHNOLOGY IN MINES

Program Name

Intelligent mining technology in mines

Program Definition

Intelligent mining technology in mines mainly studies the basic knowledge and skills of ore dressing electromechanical equipment assembly, commissioning, application, metal and non-metal mine mining and production, etc., for mechanical and electrical equipment inspection, maintenance and common troubleshooting, metal and non-metallic mining, demolition, mine ventilation and dust control and safety production and management, etc. For example: crushing equipment, screening and classification equipment, dehydration filtration equipment, automatic control equipment and other beneficiation machinery use, debugging, maintenance and troubleshooting; Mining and blasting of copper, iron, tin, zinc and other metallic ores as well as diamond, graphite, crystal and other non-metallic ores; Mine gas, dust and other safety protection and ventilation.

Core Subject Courses

Mine geology, metal mineral deposit underground mining, open pit mining technology, mining the electrician, mine ventilation and dust control, mining machinery and equipment, the ore drawing read and draw, the mining design, general physics, the mechanical drawing with AutoCAD drawing, metal material and heat treatment processing applications, electronic technology, the electricity machine and drag, hydraulic pneumatic transmission of mining machinery, operation and maintenance of mining equipment power supply system, etc.

Employment Prospect

Mining equipment or mining enterprises and institutions: installation and operation of mineral processing mechanical and electrical equipment, maintenance of mineral processing equipment, upkeep of mineral processing equipment, installation, debugging and management of mineral processing equipment, mining equipment research and design; Metal and non-metal mine survey and engineering survey, mining and production, single block design and partial system technical transformation design, mine production management, mine safety and technical management.

036 ENVIRONMENTAL ENGINEERING TECHNOLOGY

Program Name

Environmental engineering technology

Program Definition

Environmental engineering technology mainly studies basic knowledge and skills in environmental monitoring and evaluation, waste water and waste gas treatment, and conducts environmental monitoring, pollution control, and environmental management. For example: river pollution status monitoring, sewage treatment, environmental quality, pollution status evaluation, noise control and engineering design, etc.

Core Subject Courses

Environmental Monitoring, Solid Waste Treatment, Hydraulics, Surveying, Physical Pollution Control Engineering, Air Pollution Control Engineering, Water Pollution Control Engineering, Environmental Engineering Materials, Noise Control Technology, Environmental Engineering Equipment, etc.

Employment Prospect

Environmental testing enterprises and institutions: environmental engineering program design, environmental engineering construction management, pollution control facilities, equipment operation and maintenance, environmental engineering construction management, environmental pollution monitoring, environmental impact assessment.

037 WATER PURIFICATION AND SAFETY TECHNOLOGY

Program Name

Water purification and safety technology

Program Definition

Water purification and safety technology mainly studies the basic knowledge and skills of water purification and water quality safety, and carries out drinking water purification, water quality testing, sewage treatment and reuse, etc. For example, the coagulation, precipitation, filtration and disinfection treatment of drinking water, the use of magnetic separation to remove magnetic and non-magnetic suspended solids and heavy metal ions in wastewater, and the detection of various trace elements in water according to water quality standards.

Core Subject Courses

Environmental Chemistry, Microbiology, Water Environment Monitoring and Evaluation, Water treatment Engineering Technology, Water pollution Control, Hydrology, Water Treatment Equipment and Instrument, Water Treatment Operation and Management, Environmental Engineering CAD, Instrument Analysis, etc.

Employment Prospect

Environmental protection enterprises and institutions: drinking water purification, water quality detection and evaluation, sewage treatment and reuse, treatment equipment overhaul and maintenance, water treatment scheme design and scientific research.

038 SAFETY TECHNOLOGY AND MANAGEMENT

Program Name

Safety technology and management

Program Definition

Safety technology and management mainly studies the basic knowledge and skills of safety production technology and safety management, and conducts safety design, evaluation, supervision and technical management. For example: radioactivity measurement, noise measurement and analysis, measurement and protection of dust, toxic and harmful gases, etc., mechanical equipment and electrical safety management in production, safe storage, transportation, and management of dangerous goods, etc.

Core Subject Courses

Safety System Engineering, Building Safety, Environmental Testing Technology, Safety Ergonomics, Engineering Mechanics and Structure, Reinforced Concrete Structure, Safety Information and Computer Management, Noise and Vibration Design , Fire Protection Engineering Technology, Ventilation and Dustproof Engineering, etc.

Employment Prospect

Chemical production enterprises and institutions: environmental safety testing, evaluation and management, safety equipment design, production and management, safety engineering design, monitoring and evaluation.

039 SAFETY INTELLIGENT MONITORING TECHNOLOGY

Program Name

Safety intelligent monitoring technology

Program Definition

Safety intelligent monitoring technology mainly studies the basic knowledge and skills of safety production laws and regulations, safety production technology and testing, and carries out safety production monitoring and monitoring product design, system equipment selection, cost, budget, installation, debugging and maintenance. For example: gas monitoring in coal mine production, gas sensor application and alarm processing, safety and quality inspection in chemical and pharmaceutical production, environmental impact monitoring and pollution control in production environment, etc.

Core Subject Courses

Safety Prevention Engineering, Safety Production Monitoring Technology, Chemical Equipment Disassembly and Assembly Training, Introduction to Standardized Management Standards, Product Analysis and Testing, Petroleum Processing Technology, Chemical Unit Operation and Experiment , Environmental Impact and Assessment, Communication Network and Integrated Cabling Technology, Safety Production Supervision Regulations, etc.

Employment Prospect

Chemical enterprises and institutions: safety monitoring, safety monitoring engineering drawing, safety monitoring system equipment operation, construction, maintenance, product quality supervision, production process control, environmental impact management and evaluation.

040 EMERGENCY RESCUE TECHNIQUE

Program Name

Emergency rescue technique

Program Definition

Emergency rescue technique mainly studies the basic knowledge and skills of fire fighting and rescue, and conducts urban rescue, fire management and rescue command. For example: fire, earthquake and other disaster rescue and personnel evacuation, mountain rescue plan design and implementation, fire engineering construction and evaluation, etc.

Core Subject Courses

Rescue Command and Technology, Emergency Plan Preparation and Management, Fire Combustion Science, Disaster Accident Emergency Response and Rescue Technology, Disaster On-site Rescue, Crisis Psychological Intervention, Emergency Management Theory and Practice , Mine Safety, Crisis Information Management Release, Fire Supervision and Management, etc.

Employment Prospect

Fire and rescue related enterprises and institutions: urban rescue and command, fire safety inspection and evaluation, fire engineering construction, monitoring and management, storage and transportation of dangerous goods, and scheme design.

041 POWER PLANTS AND POWER SYSTEMS

Program Name

Power plants and power systems

Program Definition

Power plants and power systems mainly study the basic knowledge and skills of electric power, electrical technology, electronic technology, electrical engineering, etc., and carries out the operation, debugging, overhaul and maintenance of power systems and electrical equipment in power generation, power supply, and power construction enterprises.

Core Subject Courses

Application of Electronic Technology, Electrical Mechanics, Electrical Parts of Power Plants and Substations, Relay Protection and Automatic Devices, High Voltage Technology, Electrical Operation and Maintenance Technology, Power System Analysis, Electrical Power Safety Work Regulations, Electrical Equipment Maintenance Training, Low Voltage Troubleshooting Training, etc.

Employment Prospect

Electric power enterprises: electrical equipment operation, equipment maintenance, installation and debugging.

042 ELECTROMECHANICAL EQUIPMENT AND AUTOMATION OF HYDROPOWER STATION

Program Name

Electromechanical equipment and automation of hydropower station

Program Definition

Electromechanical equipment and automation of hydropower station mainly studies the basic knowledge and skills of electronic circuit, electrical technology, motor technology, automation technology, hydropower station electrical equipment and conducts installation, commissioning, operation, overhaul, maintenance of electrical equipment and automation equipment in hydropower stations, hydropower plants and so on. The common mechanical and electrical equipment of hydropower station are: turbine, turbine generator, governor, oil pressure device, transformer, distribution device, etc.

Core Subject Courses

Application of Electrical Technology, Mechanical CAD, Analysis and Production of Electronic Circuits, Application of Motor Technology, Mechanical Analysis and Application, Management and Maintenance of Hydraulic and Pneumatic System, Analysis and Application of Programmable Control System, Hydraulic Turbine Regulation, Electrical Equipment of Hydropower Station, Installation and Maintenance of Hydrogenerator Sets and Auxiliary Systems, etc.

Employment Prospect

Hydropower enterprises: installation, commissioning, operation, overhaul and maintenance of electromechanical equipment in hydropower stations.

043 HYDROPOWER STATION AND POWER GRID TECHNOLOGY

Program Name

Hydropower station and power grid technology

Program Definition

Hydropower station and power grid technology mainly studies the basic knowledge and skills of electrical engineering, motor technology, power system, hydropower engineering equipment, automation technology, etc., and conducts the installation, commissioning, operation, overhaul and maintenance of hydropower stations and power network facilities in the first line. For example: wiring, overhaul and maintenance of the power network, installation, commissioning and operation of electrical equipment in hydropower stations such as turbines and turbine generators.

Core Subject Courses

Electrical Fundamentals, Electrical Engineering CAD, Electrical Technology, Electrical Control and PLC Technology, Water Turbine, Hydraulic Unit Installation, Electrical First Part of Hydropower Station, Electrical Secondary Part of Hydropower Station, Relay Protection of Power System, Microcomputer Monitoring Technology of Hydropower Station, etc.

Employment Prospect

Hydropower enterprises: operation, installation, commissioning, overhaul and maintenance of electromechanical equipment for hydropower projects and power grids.

044 POWER SYSTEM AUTOMATION TECHNOLOGY

Program Name

Power System Automation Technology

Program Definition

Power System Automation Technology mainly studies the basic knowledge and skills of power system, motor technology, automation technology, electrical control and PLC, etc., and carries out installation, commissioning, operation, maintenance and repair of power automation equipment. For example: testing of power grid automation dispatching system, power system information automatic transmission system; installation, operation and maintenance of substation automatic devices, power system anti-accident automatic devices, etc.

Core Subject Courses

Motor Technology and Application, Power System Fundamentals, High Voltage and Testing Technology, Electrical Control and PLC, Factory Power Supply and Distribution Technology, Power System Automatic Device and Operation, Substation Integrated Automation Technology, Relay Protection Automatic Device Operation and Maintenance, Automatic Detection Technology and Application, Power System Failure Analysis, etc.

Employment Prospect

Electric power enterprises: line maintenance, distribution system maintenance, automatic device debugging, automatic device operation.

045 ELECTRIC POWER TRANSMISSION AND DISTRIBUTION ENGINEERING TECHNOLOGY

Program Name

Electric power transmission and distribution engineering technology

Program Definition

Electric power transmission and distribution engineering technology mainly studies the basic knowledge and skills of electric power, electrical machinery, high voltage technology, power transmission and distribution lines, safe electricity usage rules, CAD drawing, etc., and conducts design, construction, operation, overhaul and maintenance of high voltage transmission and distribution lines in power supply and electric power industry. For example: burial of cable transmission lines, construction and maintenance of overhead transmission lines, etc.

Core Subject Courses

Basics of Electronic Technology, Motor Technology, High Voltage Technology, Basics of Transmission and Distribution Lines, Transmission Line Design, Structural Design of Towers, Principles of Cable Design, Distribution Automation, Line Safety Regulations and Safe Use of Electricity, Electrical CAD, etc.

Employment Prospect

Electric power enterprises: design, construction, operation, overhaul, maintenance and management of high-voltage transmission and distribution lines.

046 POWER SUPPLY TECHNOLOGY

Program Name

Power supply technology

Program Definition

Power supply technology mainly studies the basic knowledge and skills of electric power, electrical engineering, power supply and consumption engineering, and power system construction, maintenance, automatic control, technology development, etc., and carries out the technology development and management of all links of power system power supply and use in the electric power industry. For example: installation and commissioning of transmission and substation lines and equipment, maintenance of high and low voltage transmission lines, use and maintenance of electrical equipment in substations, etc.

Core Subject Courses

Circuit, Analog Electronic Technology, Digital Electronic Technology, High Voltage Technology, Automatic Control Principle and System, SCM Principle and Application, Power Supply and Transformation Engineering, Relay Protection, Secondary Loop, Motor Drag and Control, etc.

Employment Prospect

Electric power enterprises: installation, operation, maintenance and overhaul of power supply and distribution equipment.

047 THERMAL POWER ENGINEERING TECHNOLOGY

Program Name

Thermal power engineering technology

Program Definition

Thermal power engineering technology mainly studies the basic knowledge and skills of engineering mechanics, thermodynamics, thermal engineering theory, thermal equipment and other aspects, and carries out engineering design, installation, commissioning, operation, maintenance and management of thermal power equipment and system in enterprises and institutions of thermal power generation, thermal power and heating. Common thermal power devices are: steam turbines, internal combustion engines, gas turbines and so on.

Core Subject Courses

Engineering Thermodynamics, Heat Transfer, Engineering Fluid Mechanics, Theory and Application of Thermal Engineering, Boiler, Steam Turbine, Thermal Power Plant, Thermal Equipment Installation and Maintenance, Pump and Fan, Thermal Instrument and Automatic Adjustment, etc.

Employment Prospect

Thermal power plants and thermal enterprises: installation, commissioning, operation, maintenance and management of thermal power equipment.

048 SOLAR THERMAL TECHNOLOGY AND APPLICATION

Program Name

Solar thermal technology and application

Program Definition

Solar thermal technology and application mainly studies the basic knowledge and skills of electrical engineering, thermal engineering, solar thermal technology, etc., involving solar thermal power generation, solar heating, solar water heating systems, solar cooling and other fields and carries out technical transformation, commissioning and operation, maintenance and management of solar thermal and photovoltaic application systems. Common solar thermal applications include: solar water heaters, solar houses, solar greenhouses, solar drying systems, etc.

Core Subject Courses

Electronic Technology, Fluid Mechanics, Thermal Engineering, Introduction to Building Plumbing, Solar Energy Utilization Technology, Solar Energy Testing Technology, Solar Photothermal Application Technology, Solar Photoelectric Application Technology, Solar Building Application Technology, Solar Photothermal and Photovoltaic System Operation and Installation, etc.

Employment Prospect

Solar energy enterprises: solar thermal technology development, solar engineering construction, technological transformation, production of solar thermal products.

049 POWER GENERATION OPERATION TECHNOLOGY

Program Name

Power generation operation technology

Program Definition

Power generation operation technology mainly studies the basic knowledge and skills of thermodynamics, electrical engineering, electromechanics, automatic control principles, centralized control operation of thermal power plants, etc. and conducts centralized control operation of unit making unit (a boiler and a steam turbine system) in thermal power plant, that is, monitoring and controlling the production and operation process of the machine and responsible for putting into operation and shutting down the equipment.

Core Subject Courses

Electrical and Electronic Technology Fundamentals, Fundamentals of Thermodynamics, Engineering Fluid Mechanics, Electrical Science, Thermal Inspection Technology, Steam Turbine Equipment and Operation, Boiler Equipment and Operation, Power Plant and Substation Electrical Equipment, Thermal Power System of Thermal Power Plant, Centralized Control Operation of Thermal Power Plant, etc.

Employment Prospect

Thermal power enterprises: centralized control and operation of units, equipment debugging, and technical management.

050 POWER PLANT CHEMISTRY AND ENVIRONMENTAL TECHNOLOGY

Program Name

Power Plant Chemistry and Environmental Technology

Program Definition

Power plant chemistry and environmental technology mainly studies basic knowledge and skills in chemistry, instrument analysis, water treatment, environmental monitoring, etc., and conducts quality inspection and environmental protection in power plants. For example: operation, commissioning, overhaul and maintenance of water purification and water treatment equipment, quality supervision and quality testing of water, coal and oil in power plants, wastewater treatment and comprehensive treatment of ash and slag.

Core Subject Courses

Inorganic Chemistry, Organic Chemistry, Engineering Fluid Mechanics, Pumps and Fans, Chemical Principles, Instrument and Automation, Power Plant Chemical Automatic Control, Power Plant Water Treatment, Power Oil and Fuel, Power Plant Environmental Monitoring, etc.

Employment Prospect

Power plants and water plants: water quality supervision, commissioning of water treatment equipment, waste water treatment, environmental monitoring.

051 PHOTOVOLTAIC ENGINEERING TECHNOLOGY

Program Name

Photovoltaic Engineering Technology

Program Definition

Photovoltaic engineering technology mainly studies the basic knowledge and skills of solar power generation and new energy power generation equipment, and conducts production, management, debugging, maintenance and marketing in the field of new energy applications. For example: testing and evaluation of electrical properties and mechanical properties of solar cells, battery modules, power generation systems, development and promotion of wind-light-LED complementary systems, etc.

Core Subject Courses

Electrical Basics, Electronic Technology, Assembly and Debugging of Photovoltaic Products, PLC Technology and Application, Power Electronics Technology, Single-chip Technology and Application, Photovoltaic System Power Technology, The Principle and Practice of Photovoltaic Power Generation System, Configuration Technology, Photovoltaic Controller Design, etc.

Employment Prospect

New energy enterprises and institutions: new energy power generation system product installers, production and operation, commissioning and maintenance, new energy application product production, quality inspection, product development, project management and sales.

052 WIND POWER ENGINEERING TECHNOLOGY

Program Name

Wind power engineering technology

Program Definition

Wind power engineering technology mainly studies the basic knowledge and skills of electrical engineering, sensor technology, high voltage technology, wind power generation technology, etc., and installs, debugs, operates, overhauls, and maintains wind power related equipment in wind power plants. Common wind power related equipments include: wind turbines, generators, base rotors, towers, batteries, inverters, etc.

Core Subject Courses

Electrical Fundamentals, Electronic Technology Fundamentals, Mechanical Fundamentals, Power Safety Knowledge, Power Supply and Distribution Technology, Wind Turbine Principles and Technology, Power System Relay Protection, Wind Energy and Wind Power Generation System Operation and Maintenance, Sensor Technology, Inverter Application Technology, etc.

Employment Prospect

Wind power enterprises: installation and commissioning, operation and maintenance, inspection and maintenance of wind power equipment.

053 BIOMASS ENERGY APPLICATION TECHNOLOGY

Program Name

Biomass energy application technology

Program Definition

Biomass energy application technology mainly studies the basic knowledge and skills of chemistry, new energy, biomass energy, etc., and carries out the development and utilization of biomass energy, as well as the installation, commissioning, operation and maintenance of related equipment. Common biomasses are: fallen leaves, sawdust, straw, rice husks, domestic sewage, livestock and poultry manure, and biogas.

Core Subject Courses

Electrical and Electronic Technology, Mechanical Drawing, Fundamentals of Thermal Engineering, Fundamentals of Fluid Mechanics, Organic Chemistry, Energy Chemistry, Fundamentals of Chemical Engineering, Modern Biomass Energy Utilization Technology, Biomass Boiler Combustion Technology, Thermal Test Technology, etc.

Employment Prospect

New energy enterprises: biomass energy development, biomass energy utilization.

054 NON-FERROUS METAL INTELLIGENT METALLURGY TECHNOLOGY

Program Name

Non-ferrous metal intelligent metallurgy technology

Program Definition

Non-ferrous metal intelligent metallurgy technology mainly studies the basic knowledge and skills of metal materials, metallurgical physical chemistry, metallurgical principles, mechanics, metallurgical production technology and equipment, etc., and conducts non-ferrous metal smelting, processing, metallurgical process design, production management, as well as non-ferrous metal smelting equipment manufacturing, installation, commissioning, operation, overhaul and maintenance in the non-ferrous metal industry. Common non-ferrous metals are: aluminum, magnesium, copper, lead, zinc, gold, silver, platinum and so on. Common non-ferrous metal smelting equipment are: crusher, ball mill, spiral classifier, thickener, etc.

Core Subject Courses

Metallography and Heat Treatment, Mechanical Drawing and Design Fundamentals, Hydraulic Transmission, Motor and Driving Fundamentals, Smelting Production Process and Equipment, Smelting Equipment Maintenance and Repair, Non-ferrous Metallurgical Equipment Management, General Chemistry, Metallurgical Physical Chemistry, Thermal Engineering Fundamentals, Heavy Metal Metallurgical Technology, Ore Furnace Control and Operation, Rare and Precious Metal Production Technology, Material Forming Technology, Metallurgical Process Detection and Control, etc.

Employment Prospect

Metallurgy, equipment manufacturing enterprises: non-ferrous metal smelting, process design, production management, non-ferrous metallurgical equipment manufacturing, installation, commissioning, operation, overhaul, maintenance, management.

055 INTELLIGENT METAL PROCESSING TECHNOLOGY

Program Name

Intelligent metal processing technology

Program Definition

Intelligent metal processing technology mainly studies the basic knowledge and skills of metal material science, metal technology, metal heat treatment, metal forming processing technology and other aspects, and conducts metal forming processing, metal mold design and processing, for manufacturing various parts or profiles blank. Common metal materials processing methods are: forging, rolling, extrusion, stamping, drawing, casting and so on.

Core Subject Courses

Mechanical Drawing, Mechanical Principles and Hydraulic Transmission, Metal Technology, Material Fundamentals, Metal Materials and Heat Treatment, Material Metallographic Analysis Technology, Metal Forming Machinery and Equipment, Metal Forming Processing Technology, Modern Mold Design, Mold Manufacturing and Maintenance, etc.

Employment Prospect

Machinery manufacturing, metal processing enterprises: metal material forming and processing, technical management, mold design.

056 BUILDING MATERIALS ENGINEERING TECHNOLOGY

Program Name

Building materials engineering technology

Program Definition

Building materials engineering technology mainly studies the basic knowledge and skills of chemistry, building materials and new building materials, building materials testing and analysis, building construction technology, etc., and conducts building materials production, quality control, testing and analysis, and building construction management. Common building materials are wood, cement, concrete, bricks, glass, paint, tiles, etc.

Core Subject Courses

Building materials engineering technology mainly studies the basic knowledge and skills of chemistry, building materials and new building materials, building materials testing and analysis, building construction technology, etc., and conducts building materials production, quality control, testing and analysis, and building construction management. Common building materials are wood, cement, concrete, bricks, glass, paint, tiles, etc.

Employment Prospect

Building materials enterprises: building materials production, building materials testing, technology development, quality control, construction management.

Program Name

Big data technology

Program Definition

This major is oriented towards the big data industry and aims to cultivate high-quality technical and skilled talents with good IT professional qualities, professional practical abilities, team collaboration awareness, ability to adapt to the frontline needs of production, construction, management, and service, and can engage in big data processing, big data application software development, big data visualization development, big data software testing, big data application system operation and maintenance, and big data software technical support.

Core Subject Courses

Java Programming, Python Program Development, Linux Operating System, Hadoop Big Data Platform Construction and Application, Web Crawler Technology and Application, Big Data Platform Operation and Maintenance, Docker Container Technology and Application, Database Technology, Data Mining, Visual Design and Development, Big Data Analysis Practice, etc.

Employment Prospect

Big data processing engineer, big data system operation and maintenance engineer, big data application development engineer, big data visualization engineer, big data analysis engineer, etc.

058 ARCHITECTURAL DECORATION ENGINEERING TECHNOLOGY

Program Name

Architectural decoration engineering technology

Program Definition

Architectural decoration engineering technology mainly studies the basic knowledge and skills of architectural CAD, architectural aesthetics, architectural decoration materials, architectural decoration structure and design, etc., and carries out architectural decoration design, material selection, construction management, project budget, etc. For example:the decoration design of the exterior of the building, the structure and decoration design of the interior of the shopping mall, the budget, supervision and management of the building decoration project.

Core Subject Courses

Sketch and Color, Architectural Drawing and CAD, A Brief History of Architectural Decoration, Architectural Decoration Materials, Architectural Decoration Structure, Architectural Decoration Equipment, Architectural Decoration Design, Architectural Decoration Engineering Budget , Building Decoration Construction Technology, Interior Decoration Design, etc.

Employment Prospect

Construction and decoration enterprises: architectural decoration design, interior design, construction management, project budget.

059 ARCHITECTURAL INTERIOR DESIGN

Program Name

Architectural interior Design

Program Definition

Architectural interior design mainly studies the basic knowledge and skills of fine arts, color science, CAD, 3DMAX, interior design, etc., and conducts interior design, interior decoration design, interior renderings, etc. For example: the layout planning of the residential space and the placement of furniture and decorations, the planning of the interior layout and store location of the shopping mall, and the drawing of indoor 3D renderings, etc.

Core Subject Courses

Sketch and Flat Construction, Color and Color Composition, Engineering Drawing, Perspective and Expression Techniques, CAD, Principles of Interior Design, 3DMAX Rendering Performance, Residential Space Design, Public Space Design, Interior Accessory Design, etc.

Employment Prospect

Decoration enterprises: interior design, interiordecoration design.

060 CONSTRUCTION ENGINEERING TECHNOLOGY

Program Name

Construction engineering technology

Program Definition

Construction engineering technology mainly studies the basic knowledge and skills of mechanics, architecture, construction engineering technology, project management, etc., and conducts construction, organization, monitoring, and management of construction projects. For example: construction of house construction projects, quality inspection of building materials such as cement and concrete, budget of construction project cost, safety management of construction site, supervision of construction project progress, etc.

Core Subject Courses

Architectural Drawing, Building Materials, Housing Architecture, Architectural Mechanics, Architectural Structure, Building Construction Technology, Building Construction Organization and Management, Soil Mechanics and Foundation, Architectural CAD, Building Surveying, etc.

Employment Prospect

Construction enterprises: engineering construction, quality inspection, engineering budget and final accounts, engineering supervision, safety management.

061 BUILDING STEEL STRUCTURE ENGINEERING TECHNOLOGY

Program Name

Building steel structure engineering technology

Program Definition

Building steel structure engineering technology mainly studies the basic knowledge and skills of engineering mechanics, steel structure engineering, steel testing and testing, etc., and carries out the construction, testing and management of steel structure engineering. For example: load-bearing test and quality inspection of steel, construction and installation of steel structures in stadiums, workshops, steel bridges, residential buildings, etc., analysis and treatment of steel structure engineering accidents such as collapse, dislocation, deformation, estimated budget for steel structure works, etc.

Core Subject Courses

Building Materials, Engineering Drawing, Engineering Surveying, Engineering CAD, Building Construction Technology, CNC Machining Technology, Steel Structure Construction, Steel Structure Welding Process, Steel Structure Construction Quality Acceptance, Steel Structure Inspection and Reinforcement, etc.

Employment Prospect

Construction and transportation enterprises: steel structure engineering construction, construction management, cost management, light steel structure engineering design.

062 UNDERGROUND AND TUNNEL ENGINEERING TECHNOLOGY

Program Name

Underground and tunnel engineering technology

Program Definition

Underground and tunnel engineering technology mainly studies the basic knowledge and skills of engineering mechanics, geotechnical mechanics, underground engineering, tunnel engineering, etc., and conducts construction, testing, budgeting, and management of underground and tunnel engineering. For example: the construction of underground projects such as subways and underground passages, the quality inspection of building materials such as steel bars and concrete, the safety management of construction sites, the estimation of project cost, and the follow-up maintenance of tunnels.

Core Subject Courses

Engineering Mechanics, Engineering Drawing and CAD, Engineering Surveying, Engineering Geology and Hydrology, Geotechnical Mechanics, Soil Mechanics and Foundation Engineering, Tunnel Engineering, Underground Engineering Construction, Tunnel Engineering Inspection Technology, Project Budget, etc.

Employment Prospect

Construction and transportation enterprises: underground engineering construction, tunnel engineering construction, construction management, engineering supervision, tunnel maintenance.

063 CIVIL ENGINEERING INSPECTION TECHNOLOGY

Program Name

Civil engineering inspection technology

Program Definition

Civil engineering inspection technology mainly studies the basic knowledge and skills of engineering mechanics, civil engineering construction technology, engineering testing technology, etc., and conducts inspection and testing of civil engineering and quality management of construction projects. For example: quality inspection of steel bars, cement and other engineering materials, inspection and testing of building structure stability and safety, inspection and testing of structure and load of road engineering, bridge engineering, tunnel engineering, etc.

Core Subject Courses

Engineering Mechanics, Engineering Surveying, Engineering Materials Testing, Road Building Materials, Soil Mechanics and Foundation, Subgrade Pavement Engineering, Bridge Engineering, Civil Engineering Construction Technology, Testing and Inspection Technology, Indoor Environment Testing, etc.

Employment Prospect

Engineering testing enterprises: engineering material testing, engineering structure testing, geotechnical engineering testing, road testing, construction quality management.

064 CONSTRUCTION EQUIPMENT ENGINEERING TECHNOLOGY

Program Name

Construction equipment engineering technology

Program Definition

Construction equipment engineering technology mainly studies the basic knowledge and skills of engineering mechanics, building materials, equipment engineering technology, etc., and conducts construction equipment engineering design, construction, quality inspection, budget, safety management, etc. Construction equipment engineering systems include elevators, central air conditioning, heating systems, ventilation systems, water supply and drainage and hot water supply, lighting, power supply and distribution, fire protection and alarm systems, etc.

Core Subject Courses

Engineering Drawing, Building Materials, Building Water Supply and Drainage, Building Heating Engineering, Building Electric, Fluid Mechanics Pumps and Fans, Fire Engineering, Building Weak Current Technology, Installation Engineering Pricing , Ventilation and Air Conditioning System, etc.

Employment Prospect

Construction, engineering, decoration enterprises: equipment engineering construction, quality inspection, engineering budget, engineering supervision.

065 HEATING, VENTILATION AND AIR CONDITIONING ENGINEERING TECHNOLOGY

Program Name

Heating, ventilation and air conditioning engineering technology

Program Definition

Heating, ventilation and air conditioning engineering technology mainly studies the basic knowledge and skills of engineering mechanics, thermal engineering, HVAC construction technology, refrigeration technology and other aspects, and carries out the design, construction, quality inspection, budget and management of heating engineering, ventilation and air conditioning engineering. For example: indoor heating system installation, refrigeration and central air conditioning equipment installation and maintenance, ventilation system inspection and maintenance.

Core Subject Courses

Engineering Mechanics, Engineering Drawing, Fundamentals of Thermal Engineering, Engineering Measurement, Fluid Mechanics Pumps and Fans, Heating Engineering, Boiler and Boiler Room Equipment, Heating System Commissioning and Operation , Ventilation and Air Conditioning Engineering, Refrigeration Technology and Application, etc.

Employment Prospect

Construction and engineering enterprises: heating engineering design, ventilation engineering design, central air conditioning engineering design, quality inspection, engineering management.

066 BUILDING FIRE PROTECTION TECHNOLOGY

Program Name

Building fire protection technology

Program Definition

Building fire protection technology mainly studies the basic knowledge and skills of fire protection regulations, fire protection engineering, etc., and carries out the design of fire protection system and the construction, inspection and management of fire protection projects. For example: the design of fire smoke sensor alarm system and automatic sprinkler system, the maintenance and repair of fire-fighting facilities such as sprinklers and fire hydrants, the construction of ventilation and smoke prevention and exhaust projects, etc.

Core Subject Courses

Fire Protection Regulations, Building Fire Water Supply Engineering, Fire Alarm and Linkage Control System, Building Power Supply and Distribution, Ventilation and Smoke Exhaust Engineering, Fire Protection System Design and Construction, Building Electrical Construction Technology, Fire Electrical Control Technology, Installation Project Budget, Commissioning and Operation of Fire Protection System, etc.

Employment Prospect

Engineering and construction enterprises: fire engineering design, fire engineering construction, construction management, and fire protection facility maintenance.

067 PROJECT COSTS

Program Name

Project costs

Program Definition

Project costs mainly studies the basic knowledge and skills of engineering economics, construction project cost estimation, engineering project management, etc., and conducts construction project estimation, bidding, cost control, etc. For example: pre-budgeting and post-accounting of construction project cost, bidding and tendering of construction project and preparation of bidding documents, cost control of construction project and cost management on construction site, etc.

Core Subject Courses

Housing Architecture, Project Bidding and Contract Management, Construction Cost Accounting, Construction Project Quota and Budget, Construction Project Cost Management, Engineering Economics, Architectural CAD Drawing, Engineering Project Management, Construction Regulations, Construction Enterprise Accounting, etc.

Employment Prospect

Construction and engineering enterprises: project cost management, project bidding.

068 WATER SUPPLY AND DRAINAGE ENGINEERING TECHNOLOGY

Program Name

Water supply and drainage engineering technology

Program Definition

Water supply and drainage engineering technology mainly studies the basic knowledge and skills of water analysis chemistry, water supply and drainage engineering technology, water resources utilization and protection, etc., and carry out the construction and management of water supply and drainage projects, installation, commissioning and maintenance of water supply and drainage equipment. For example: design and construction of water supply and drainage, sewage treatment and other projects in the community, installation, commissioning, repair and maintenance of water supply equipment and sewage treatment equipment.

Core Subject Courses

Water Analytical Chemistry, Hydraulics, Water Pumps and Pumping Stations, Water Treatment Microbiology, Engineering Mechanics, Water Resources Utilization and Protection, Water Quality Engineering, Water Supply and Drainage Pipeline System , Building Water Supply and Drainage Engineering, Water Process Instrumentation and Control, etc.

Employment Prospect

Engineering and urban construction enterprises: water supply and drainage engineering construction, engineering supervision, water supply and drainage equipment maintenance, plumbing maintenance.

069 URBAN GAS ENGINEERING TECHNOLOGY

Program Name

Urban gas engineering technology

Program Definition

Urban gas engineering technology mainly studies the basic knowledge and skills of engineering thermodynamics, gas engineering, gas equipment, natural gas pipeline transportation technology, etc., and carries out the construction and management of gas engineering, operation and maintenance of gas equipment, and gas storage, transmission and distribution. For example: installation of gas pipelines, installation, repair and maintenance of gas equipment such as gas pressure regulating equipment and gas mixing equipment, and gas transmission and distribution in residential areas.

Core Subject Courses

Engineering Fluid Mechanics, Engineering Thermodynamics and Heat Transfer, Urban Gas Transmission and Distribution System, Natural Gas Pipeline Transmission Technology, Gas Engineering Construction, Gas Application Technology, Gas Transmission and Distribution Engineering, Gas Engineering Construction, Gas Supply and Safety Management, Gas Equipment Operation and Maintenance, etc.

Employment Prospect

Urban gas enterprises: gas pipeline construction, dispatching management, equipment maintenance, gas transmission and distribution.

070 REAL ESTATE OPERATION AND MANAGEMENT

Program Name

Real estate operation and management

Program Definition

Real estate operation and management mainly studies the basic knowledge and skills of real estate operation and management, real estate practice, real estate laws and policies, etc., and conducts real estate operation, planning, management, intermediary services, etc. For example: real estate value assessment, real estate investment analysis and consultation, real estate sales and rental, etc.

Core Subject Courses

Real Estate Surveying and Mapping, Architectural Recognition and House Structure, Construction Project Budget and Final Accounts, Real Estate Development and Management, Real Estate Marketing, Real Estate Investment Analysis, Real Estate Valuation and Practice, Real Estate Brokerage and Practice, Basic Real Estate System and Policy, Real Estate Administration, etc.

Employment Prospect

Real estate enterprises: real estate sales, real estate appraisal, real estate investment consulting, real estate intermediary services.

071 MODERN PROPERTY MANAGEMENT

Program Name

Modern property management

Program Definition

Modern property management mainly studies the basic knowledge and skills of management, public relations, property management, etc., and carries out property management, community service, logistics service guarantee management, etc. For example: maintenance and management of property equipment such as elevators, street lights, boilers, water pipes, and fire-fighting facilities, management of community greening, traffic, and public security, maintenance of community environmental sanitation, and management of property owner data and information.

Core Subject Courses

Principles of Management, Public Relations, Property Management Regulations, Property Management Practice, Office Property Management, Community Management, Property Environment Management, Property Equipment and Facilities Maintenance and Management, Real Estate Development and Management, Real Estate Economics, etc.

Employment Prospect

Property enterprises: property management, property services; various types of enterprises and institutions: logistics services.

072 WATER CONSERVANCY ENGINEERING

Program Name

Water conservancy engineering

Program Definition

Water conservancy engineering mainly studies the basic knowledge and skills of engineering hydrology, hydraulic engineering surveying, hydraulic reinforced concrete, hydraulic structures, engineering drawing, etc., and carries out engineering planning and design, engineering on-site construction, engineering budget, and maintenance and repair of hydraulic equipment in the field of hydraulic engineering. For example: building dams, embankments, spillways, sluices, channels, crossings, rafts, fishways and other types of hydraulic structures.

Core Subject Courses

Hydraulics, Engineering Hydrology, Water Conservancy Engineering Surveying, Hydraulic Reinforced Concrete, Water Conservancy and Hydropower Planning, Hydraulic Buildings, Water Conservancy Engineering Construction, Engineering Drawing, Engineering Mechanics, Engineering Survey, Engineering Geology, Water Conservancy Project Construction, Farmland Water Conservancy, Water Administration Supervision, etc.

Employment Prospect

Hydraulic enterprises: engineering planning, design, construction, scientific research and management.

073 WATER CONSERVANCY AND HYDROPOWER ENGINEERING TECHNOLOGY

Program Name

Water conservancy and hydropower engineering technology

Program Definition

Water conservancy and hydropower engineering technology mainly studies the basic knowledge and skills of water conservancy engineering survey, water conservancy engineering drawing and map recognition, water conservancy engineering construction and other aspects, and conducts engineering construction technology application and organization management, construction quality control, safety management, budget preparation, project bidding, etc. in the technical field of water conservancy and hydropower. For example: water conservancy project bidding, engineering supervision, quality control and so on.

Core Subject Courses

Water Conservancy Engineering Drawing and Recognition, Water Conservancy Engineering Surveying, Engineering Hydraulic Calculation, Building Materials, Construction Project Management, Project Address and Soil Mechanics, Water Conservancy Engineering Construction, Hydraulic Reinforced Concrete Structure, Water Conservancy Project Construction Safety and Quality Control, Engineering Mechanics, Water Conservancy and Hydropower Project Cost and Bidding, Water Conservancy Project Supervision, etc.

Employment Prospect

Water conservancy construction enterprises: construction quality monitoring, safety management, contract management.

074 WATER CONSERVANCY AND HYDROPOWER CONSTRUCTION ENGINEERING

Program Name

Water conservancy and hydropower construction engineering

Program Definition

Water conservancy and hydropower construction engineering mainly studies the basic knowledge and skills of water conservancy engineering drawing recognition and drawing, hydraulic structures, project cost and other aspects, and carries out engineering design, construction, supervision, operation and management in the field of water conservancy and hydropower construction engineering. For example: hydropower station design, project construction progress tracking, project supervision and so on.

Core Subject Courses

Construction Engineering Materials, Water Conservancy Engineering Drawing, Housing Architecture, Hydraulics, Engineering Mechanics, Structural Mechanics, Engineering Hydrology and Hydraulic Calculation, Construction Organization Management, Hydraulic Reinforced Concrete, Engineering Geology, Hydraulic Buildings, Hydroelectric Power Station Buildings, Water Conservancy and Hydropower Engineering Testing and Management, etc.

Employment Prospect

Water conservancy construction enterprises: water conservancy engineering design, construction management, engineering supervision, engineering cost, engineering measurement, engineering inspection.

075 INSTALLATION AND MANAGEMENT OF HYDROPOWER STATION EQUIPMENT

Program Name

Installation and management of hydropower station equipment

Program Definition

Installation and management of hydropower station equipment mainly studies the basic knowledge and skills of electrical primary system, relay protection, hydropower station electrical operation and maintenance, etc., and carries out operation and maintenance of electromechanical equipment, troubleshooting of electromechanical equipment, installation and debugging of units, installation and debugging of auxiliary equipment, etc. in the field of power equipment of hydropower stations. For example: equipment installation, overhaul, maintenance, operation management, etc. of hydropower units.

Core Subject Courses

Hydraulics, Mechanical Design Fundamentals, Electrical and Electronic Technology, AC Motor, PLC Principle and Application, Hydraulic Turbine, Hydraulic Turbine Regulation, Hydraulic Unit Auxiliary Equipment, Unit Installation and Maintenance, Electrical Primary System, Relay Protection, Hydroelectric Power Plant Electromechanical Control Technology, Hydroelectric Power Plant Electromechanical Operation and Management, Mechanical Fundamentals, Electrical Fundamentals, etc.

Employment Prospect

Hydropower maintenance enterprises: power equipment maintenance, operation and maintenance of electromechanical equipment.

076 HYDROPOWER STATION OPERATION AND INTELLIGENT MANAGEMENT

Program Name

Hydropower station operation and intelligent management

Program Definition

Hydropower station operation and intelligent management mainly studies the basic knowledge and skills of hydropower information management, relay protection, hydropower automation, etc., and conducts the operation and maintenance of hydropower station equipment, technical transformation, production management, etc. in the field of hydropower station operation and management. For example: normal operation of hydropower stations, daily maintenance of hydropower equipment, management of related data of hydropower stations, etc.

Core Subject Courses

Motor Technology, Hydraulic Turbine and Auxiliary Equipment, Water Conservancy Unit Installation, Electrical Equipment of Hydropower Station, Power System Relay Protection, Power System Automatic Device, High Voltage Technology, Hydropower Station Operation and Hydropower Station Computer Monitoring Technology, Hydraulic Turbine Regulation, Hydropower Station Automation, Hydropower Information Technology and Management, etc.

Employment Prospect

Water and electricity enterprises: water machine, electrical equipment operation and maintenance, commissioning test, installation and maintenance, production management.

077 WATER AND SOIL CONSERVATION TECHNOLOGY

Program Name

Water and soil conservation technology

Program Definition

Water and soil conservation technology mainly studies the basic knowledge and professional skills of soil and water conservation laws and regulations, sustainable development of soil and water conservation, and soil and water conservation program compilation, and carries out soil and water conservation project planning, design, program compilation, construction, supervision and management in the field of soil and water conservation. For example, the preliminary work of water and soil conservation projects, the preparation of water and soil conservation programs, the implementation of water and soil conservation prevention supervision and administrative law enforcement.

Core Subject Courses

Water Conservancy Engineering Survey, Engineering Drawing and CAD, Arborology, Principles of Soil Erosion, Soil and Water Conservation Planning and Design, Water and Soil Conservation Engineering, Water and Soil Conservation Forest and Grass, Project Cost, Soil Science, Hydrology, Soil and Water Conservation Monitoring, Preparation of Soil and Water Conservation Plans, Construction of Soil and Water Conservation Projects, Project Cost and Bidding, Remote Sensing and Geographic Information Technology, etc.

Employment Prospect

Environmental protection enterprises: program preparation, project implementation, project supervision.

078 MECHANICAL DESIGN AND MANUFACTURE

Program Name

Mechanical design and manufacture

Program Definition

Mechanical design and manufacture mainly studies the basic knowledge and professional skills of mechanical drawing, computer-aided drawing, and mechanical workpiece design, and conducts non-standard workpiece design, standard workpiece improvement, mechanical parts processing, and mechanical design and assembly in the field of mechanical design and manufacturing. For example: design the shape, structure, material, processing method, etc. of the part.

Core Subject Courses

Mechanical Drawing, Mechanical Design Fundamentals, Computer CAD Drawing, Tolerance Fitting and Measurement Technology, Engineering Materials, Metal Cutting Principles and Tools, Machining Process Design, Modern Processing Technology , Machine Tool Fixture Design, CNC Machining Technology, Hydraulic and Pneumatic, Electrical Basics, 3D Modeling Design, SolidWorks Software Application, etc.

Employment Prospect

Machining enterprises: mechanical drawing, the operation of lathes, and the application of CNC machining.

079 INTELLIGENT MANUFACTURING EQUIPMENT TECHNOLOGY

Program Name

Intelligent manufacturing equipment technology

Program Definition

This major cultivates students to have a solid foundation in science and culture, as well as knowledge of mechanical drawing and drawing recognition, tolerance fitting and measurement technology, electrical and electronic technology, and related laws and regulations. It enables students to possess the abilities of intelligent manufacturing equipment mechanical component assembly and electrical system debugging, intelligent manufacturing digital workshop equipment maintenance support, intelligent manufacturing system integration, and possess the spirit of craftsmanship and information literacy, become high-quality technical and skilled talents who can engage in the installation and debugging, maintenance and repair, optimization and upgrading, integration and transformation, and standard implementation of intelligent manufacturing equipment.

Core Subject Courses

Programming and Operation of CNC Machine Tools, Operation and Maintenance of Industrial Robots, Programmable Control Technology and Applications, Installation and Debugging of Intelligent Manufacturing Equipment, Connection and Debugging of CNC Systems, Fault Diagnosis and Maintenance of Intelligent Equipment, and Integrated Application of Intelligent Manufacturing Units, etc.

Employment Prospect

Mechanical engineering technicians, metal processing machinery manufacturing personnel and other professions, intelligent manufacturing equipment operation, fault diagnosis and maintenance, equipment optimization and upgrading, intelligent manufacturing unit integration application, intelligent manufacturing standard implementation and other positions (groups).

080 INDUSTRIAL DESIGN

Program Name

Industrial design

Program Definition

Industrial design mainly studies the principles and knowledge of industrial design, and explores the relationship between the shape and color, form and appearance, structure and function, shape and process of industrial products, design industrial products based on practicality and aesthetics, including packaging design, modeling design, display design, UI design, etc. For example: the exterior structure design of sofa, the modelling color design of chandelier, etc.

Core Subject Courses

Sketch and Color, CAD Drawing, Human-Machine Engineering, Pro/E Industrial Design Fundamentals, Mechanical Design Principles, Industrial Product Model Making, Product Conceptual Design, Product Design Principles and Methods, Product Packaging Design, Product Structure Design, etc.

Employment Prospect

Design enterprises: product design, packaging design, advertising design, graphic design, display design, appearance design, three-dimensional design, visual design.

081 INDUSTRIAL ENGINEERING TECHNOLOGY

Program Name

Industrial engineering technology

Program Definition

Industrial engineering technology mainly studies the basic knowledge and skills of production planning control, human resource management, logistics engineering, etc., and improves labor productivity, product quality, and reduces cost in the field of industrial engineering technology. The purpose of industrial engineering is to improve corporate profitability, comprehensive competitiveness, productivity, and social productivity.

Core Subject Courses

Computer Aided Engineering Drawing, Tolerance Matching and Measurement Technology, Production Planning and Control, Human Resource Management, Machinery Manufacturing Technology, Basics of Industrial Engineering, Machining Quality Control and Inspection, Logistics Engineering, Production Site Management, Hydraulics and Pneumatics, Electrical Basics, CNC Machining Technology, etc.

Employment Prospect

Manufacturing enterprises: modern enterprise intelligent management, machining positions, enterprise planning, statistics, on-site management, material storage management.

082 INTELLIGENT WELDING TECHNOLOGY

Program Name

Intelligent welding technology

Program Definition

Intelligent welding technology mainly studies the basic knowledge and skills of electrical and electronics, automatic control, welding methods, welding structures, etc., and conducts welding equipment debugging, use, maintenance, welding technology management, and welding processing industrial design in the field of welding technology and automation. Common welding methods include hand arc welding, submerged arc welding, argon tungsten arc welding, gas metal arc welding, etc.

Core Subject Courses

Mechanical Drawing, Mechanical Design, Electrical and Electronic Technology, Metallography and Heat Treatment, Welding Methods and Equipment, Arc Welding Power Source, Metal Fusion Welding Principles, Welding Inspection Methods, Welding Engineering Management, Pressure Vessel, Welding of Dissimilar Materials, Special Welding Process, Welding Process Control and Welding Process, Welding Process Automation Control, Machining Fundamentals, etc.

Employment Prospect

Welding machine production enterprises: welding equipment design, manufacture, on-site debugging.

083 INDUSTRIAL PRODUCT QUALITY TESTING TECHNOLOGY

Program Name

Industrial product quality testing technology

Program Definition

Industrial product quality testing technology mainly studies the basic knowledge and skills of mechanical pattern reading and drawing, metal technology, sensors and automatic detection. In the field of mechanical product testing and inspection technology, perform product performance testing, geometric precision measurement, measuring instrument management and maintenance, quality management, etc. The common contents are: surface roughness inspection, shape and position error inspection, material inspection, appearance inspection, casting inspection, forging and stamping parts inspection, welding inspection, riveting inspection, heat treatment inspection, surface treatment inspection, etc.

Core Subject Courses

Mechanical Design Fundamentals, Mechanical Manufacturing Process Fundamentals, Machining Quality Control and Inspection, Measuring Fundamentals and Metrology Regulations, Measuring Instrument Verification and Adjustment Technology, Quality Inspection of Typical Parts, ISO9000 Quality Management System, Geometric Accuracy Testing Technology, Quality Management and Metrology Management, Product Performance Testing, etc.

Employment Prospect

Quality inspection enterprises: product quality inspection, measuring instrument verification and maintenance, quality management and machining.

084 MOTOR AND ELECTRICAL TECHNOLOGY

Program Name

Motor and electrical technology

Program Definition

Motor and electrical technology mainly studies the basic knowledge and skills of electrical principle, motor control, electronic technology, mechanical foundation and other aspects, and carries out production management, equipment debugging and maintenance, product design, quality testing, sales and management in the field of motor and electrical technology. For example: generator, motor fault diagnosis, generator operation, relay protection, motor control, new motor design and so on.

Core Subject Courses

Electrical Engineering, Electronics, Motor and Drag Foundation, Motor Principle and Analysis, Motor and Electrical Technology and Tooling, Motor Test, Electrical Control and PLC, Power Electronics and Frequency Conversion Technology, Motor Structure and Assembly, Electrical Product Structure and Assembly, Assembly and Maintenance of Complete Sets of Electrical Equipment, Inverter Application Technology, Industrial Robot Application Technology, Motor Manufacturing Process, etc.

Employment Prospect

Industrial and mining enterprises: manufacture, testing, installation, debugging, maintenance, operation, repair and management of motors and electrical appliances.

085 NEW ENERGY EQUIPMENT TECHNOLOGY

Program Name

New energy equipment technology

Program Definition

New energy equipment technology mainly studies the basic knowledge and skills of electrical and electronic technology, new energy technology, PLC and inverter, etc., and conducts production, management, maintenance and technical support of new energy equipment in the field of new energy equipment technology. Common new energy sources include nuclear energy, solar energy, wind energy, biomass energy, hydrogen energy, geothermal energy and tidal energy.

Core Subject Courses

Electrical Basics, Electronic Technology, New Energy Technology, Power System Analysis, Maintenance Electrician Training, New Energy Conversion and Control Technology, Power Engineering Construction Technology, Measurement and Pricing of Electric Power Engineering, Project Management, Project Budget, Wind Power Generation Technology, Photovoltaic Power Generation Technology, etc.

Employment Prospect

Wind power enterprises: daily operation and maintenance of power supply and distribution systems, equipment management, and technical management.

086 REFRIGERATION AND AIR CONDITIONING TECHNOLOGY

Program Name

Refrigeration and air conditioning technology

Program Definition

Refrigeration and air-conditioning technology mainly studies the basic knowledge and skills of electrical and electronic technology, refrigeration principles and equipment, refrigeration and air-conditioning automatic control, etc., and conducts air-conditioning system design, installation, commissioning, maintenance management, and engineering construction supervision in the field of refrigeration and air-conditioning technology. Common refrigeration methods include liquid vaporization refrigeration, gas expansion refrigeration, vortex tube refrigeration, thermoelectric refrigeration, etc.

Core Subject Courses

Refrigeration and Air Conditioning Product Design, Refrigeration and Air Conditioning Device Manufacturing Technology, Refrigerator Air Conditioning Detection and Testing Technology, Central Air Conditioning Engineering Design and Construction, Central Air Conditioning Operation Management, Building Equipment Management, Workshop Management , Industrial Enterprise Quality Management, Cold Storage Engineering Design and Operation Management, Modern Mechanical Drawing, AutoCAD Advanced Drawing Technology, Electrical and Electronic Technology, Refrigeration Equipment Electrical and Control Technology, etc.

Employment Prospect

Refrigeration enterprises: refrigeration equipment maintenance workers or operators, refrigeration and air-conditioning engineering installation and construction workers, refrigeration and air-conditioning equipment and spare parts sales.

087 ELEVATOR ENGINEERING TECHNOLOGY

Program Name

Elevator engineering technology

Program Definition

Elevator engineering technology mainly studies the basic knowledge and skills of single-chip microcomputer and PLC technology, elevator structure and principle, motor and drag, elevator electrical control technology, etc., and carries out elevator manufacturing, installation and maintenance, use management, supervision and detection, etc., in the field of elevator engineering technology. Elevators can be divided into the following categories according to different uses: passenger elevators, residential elevators, sightseeing elevators, freight elevators, passenger and freight elevators, hospital elevators, service elevators, vehicle elevators, escalators and other elevators.

Core Subject Courses

Motor and Drag, Electronic Technology, Detection and Conversion Technology, PLC and Elevator Control Technology, Inverter and Touch Screen Technology, Electrical Professional English, Elevator Structure and Principle, Elevator Control Technology, etc.

Employment Prospect

Elevator enterprises: elevator parts development, elevator installation and maintenance operations, elevator inspection and quality control, elevator equipment and building management, elevator production and installation, construction site management, etc.

Program Name

Mechatronics technology

Program Definition

Mechatronics technology mainly studies the basic knowledge and skills of electromechanical drive control, engineering drawing, electromechanical equipment control, hydraulics and pneumatics and conducts design, manufacture, technical management, installation and commissioning of mechatronics equipment, design transformation and technical management of commonly used mechatronics products in the field of mechatronics technology. For example: CNC machine tool operation, CAD/CAM software application, electromechanical equipment installation, etc.

Core Subject Courses

Machine Manufacturing Fundamentals, Motor and Drag, CNC Machining and Programming, Electrical Control and PLC, Mechanical and Electrical Equipment Maintenance, Hydraulic and Pneumatic Transmission, Mechanical Equipment Control Technology, Inverter Technology , Mechatronics Technology, Single-chip Control Technology, Sensor Technology, Power Electronics and Motor Speed Regulation Technology, Motor and its Application, etc.

Employment Prospect

Production enterprises: installation, commissioning, inspection, maintenance, fault diagnosis and elimination, technical transformation and management of mechatronics equipment and systems.

089 INDUSTRIAL ROBOT TECHNOLOGY

Program Name

Industrial robot technology

Program Definition

Industrial robot technology mainly studies the basic knowledge and skills of industrial automation control technology, robot automatic production line application, PLC and peripheral equipment application, etc. and carries out industrial robot assembly and testing, operation programming, installation and debugging, industrial robot sales and technical services, etc. in the field of industrial robot technology. Common industrial robots include joint robots, Cartesian coordinate robots, and planar SCARA robots.

Core Subject Courses

Robot Mechanical System, Robot Control Technology, Robot Vision and Sensing Technology, Industrial Robot Application and Programming, Fieldbus Technology and Its Application, Mechanical Drawing, Programmable Controller, Industrial Robot Practice and Application Skills, Electrical and Electronic Technology, Sensor Technology, Machine Principles and Parts, etc.

Employment Prospect

Robot manufacturing enterprises: industrial robot system assembly and debugging, maintenance, fault diagnosis, teaching programming.

090 INDUSTRIAL INTERNET APPLICATION

Program Name

Industrial Internet application

Program Definition

Industrial Internet application mainly studies the basic knowledge and skills of computer circuit foundation, single chip computer programming and maintenance, PLC application technology and so on, and carries on the installation, debugging and maintenance of network control system in the field of industrial network technology; Industrial network technology development, security management and services. For example: industrial network engineering construction, system integration design, site control equipment installation and maintenance.

Core Subject Courses

C Language Programming, Computer Real-time Network System, Web Page Production and Website Construction, Object-Oriented Programming, Real-time Database Application and Development, Industrial Network Technology, Petrochemical Foundation (Chemical Principles, Chemical Technology), Detection Instrument, Control Engineering, DCS/FCS, Network Communication Technology, Modern Control Theory and Application, Programmable Controller and Other Intelligent Instruments, etc.

Employment Prospect

Chemical enterprises: production and control, instrument measurement, process automation, chemical operation, information system development and application, network management, etc.

091 RAILWAY ROLLING STOCK MANUFACTURE AND MAINTENANCE

Program Name

Railway rolling stock manufacture and maintenance

Program Definition

Railway rolling stock manufacture and maintenance mainly studies the basic knowledge and skills of bullet train manufacturing industry, bullet train mechanical equipment overhaul, parts structure and design, etc., and conducts key parts processing, bullet train assembly, mechanical maintenance, technical management, etc., in the field of railway locomotive and rolling stock manufacturing and maintenance. Railway locomotives can be divided into four categories: steam locomotives, diesel locomotives, electric locomotives and EMUs.

Core Subject Courses

Equipment manufacturing enterprises: design, production, installation, commissioning of machinery and equipment, manufacture of vehicle parts, machinery maintenance, product quality inspection, etc.

Employment Prospect

Equipment manufacturing enterprises: design, production, installation, commissioning of machinery and equipment, manufacture of vehicle parts, machinery maintenance, product quality inspection, etc.

092 RAIL TRANSIT COMMUNICATION SIGNALEQUIPMENT MANUFACTURING AND MAINTENANCE

Program Name

Rail transit communication signal equipment manufacturing and maintenance

Program Definition

Rail transit communication signal equipment manufacturing and maintenance mainly research circuit foundation, computer communication, station signals, railway signals and other aspects of the basic knowledge and skills, and conducts maintenance, management, design, overhaul and application development of railway communication and signal equipment in the field of railway communication signal equipment manufacturing and maintenance. For example: railway communication and signal equipment assembly, debugging, testing, maintenance, process management, installation and construction and after-sales service.

Core Subject Courses

Introduction to Railways, Analog Electronic Technology, Digital Electronic Technology, Introduction to Railway Communication, Communication Circuit Fundamentals, Electronic Measurement and Intelligent Instruments, Signal Basic Equipment, Intelligent Power Supply Technology, SCM Application Technology, Communication Signal System Engineering Construction, Communication Signal Product Manufacturing and Process Management, Circuit Board Inspection and Repair, Communication Signal Equipment Inspection and Maintenance,

Employment Prospect

Rail transit enterprises: signal engineering survey and design, project budget, project construction and supervision, communication and signal equipment installation and maintenance, etc.

Program Name

Ship engineering technology

Program Definition

Ship engineering technology mainly studies the basic knowledge and skills of engineering mechanics, ship electrical engineering, ship design, ship architecture, etc., and conducts shipbuilding production design, ship construction, and manufacturing inspection in the field of ship engineering technology. For example: ship production design, construction, repair, inspection, process design, ship construction, welding, etc.

Core Subject Courses

Engineering Mechanics, Fundamentals of Mechanical Design, Mechanical Drawing and Auto CAD, Ship Structure and Drawing, Marine Materials and Welding Process, Ship Structure Design, Ship Outfitting Engineering, Ship CAD/CAM, Ship Anticorrosion and Painting, Ship Construction and Repair Technology, Shipbuilding Production Safety Technology , Professional English, The Principles of Ships, etc.

Employment Prospect

Shipbuilding enterprises: ship construction and repair process formulation and on-site construction guidance, shipbuilding production design, drawing production design drawings, and compiling technical documents.

094 SHIP ELECTRICAL ENGINEERING TECHNOLOGY

Program Name

Ship electrical engineering technology

Program Definition

Marine electrical engineering technology mainly studies the basic knowledge and skills of motor and drag, Marine power station and commissioning, Marine signal and system, Marine power supply technology and other aspects, and conducts design, transformation, equipment installation, commissioning, maintenance, operation and management of marine electrical equipment, etc., in the field of marine electrical engineering technology. For example: operation and troubleshooting of marine power equipment and auxiliary machinery, use of marine motors, maintenance of marine electrical control system equipment, etc.

Core Subject Courses

Electrical Technology, Electronic Technology, Motor and Electric Drive, Microcomputer Principle, Programmable Logic Controller (PLC), Electrical Lighting Technology, Introduction to Ships, Modern Detection Technology, Ship Electrical Equipment and System, Ship Auxiliary Machinery Electrical Control System, Ship Equipment Safety and Management, Navigation Instruments, Ship Communication and Navigation, Microcomputer Control System, etc.

Employment Prospect

Electrical equipment manufacturing enterprises: installation, use, management and maintenance of marine electrical equipment and automatic control equipment.

095 AIRCRAFT ENGINE MANUFACTURING TECHNOLOGY

Program Name

Aircraft engine manufacturing technology

Program Definition

Aircraft engine manufacturing technology mainly researches the basic knowledge and skills of aircraft engine principle, the aircraft engine fault diagnosis, the aeroengine parameter measurement and test technology, and so on, and performs manufacturing and processing of aero-engine and other parts, manufacturing process design, assembly process design and process quality control in the field of aero-engine manufacturing technology.

Core Subject Courses

Mechanical drawing, journal of mechanical design, overview of aviation, aviation engine principle, the sheet metal forming and the mould design, the aircraft manufacturing process, the nc machining and programming, the CAD/CAM technology, the structure and principle of aeroengine, the aviation materials, the aircraft engine manufacturing technology, the aircraft engine assembly process, Special Processing Technology, etc.

Employment Prospect

Aero-engine manufacturing enterprises: sheet metal processing in the field of aircraft manufacturing, machining and assembly of aircraft parts, general mechanical parts, etc.

096 AIRCRAFT MAINTENANCE TECHNOLOGY

Program Name

Aircraft maintenance technology

Program Definition

Aircraft maintenance technology mainly studies the basic knowledge and skills of hydraulic transmission and control, aviation maintenance foundation, aircraft structure foundation, aircraft power device, etc., and conducts aircraft maintenance, aircraft and engine repair in the field of aircraft maintenance technology. For example: aircraft body structure and accessories repair, assembly and debugging in the field of aircraft manufacturing, aircraft mechanical fault diagnosis and elimination, aircraft repair technology management, aircraft field maintenance, etc.

Core Subject Courses

Mechanical Drawing and CAD, Fundamentals of Mechanical Engineering, Fundamentals of Electronic Technology, Fundamentals of Electrical Engineering, Professional English, Introduction to Aeronautical Engineering and Technology, Aerodynamics and Principles of Flight, Aviation Electrical and Instrumentation, Principle and Structure of Aero-Engine, Hydraulic and Pneumatic Transmission, Human Factors and Aviation Regulations, Aircraft Structure and System, Aircraft Accessories Maintenance, etc.

Employment Prospect

Aviation maintenance enterprises: air engine accessories repair, assembly, commissioning, testing, fault diagnosis, production site technical services, product quality inspection and production management, etc.

097 UAV APPLICATION TECHNOLOGY

Program Name

UAV application technology

Program Definition

UAV application technology mainly studies the basic knowledge and skills of UAV principle, UAV control, aircraft construction, UAV repair and other aspects, and carries out UAV parts processing, assembly, maintenance and repair, flight remote control and so on in the field of UAV application technology. For example: UAV pilot control, UAV data processing, UAV remote sensing mapping and so on.

Core Subject Courses

Engineering Drawing and CATIA, Mechanical Fundamentals, Electrical and Electronic Technology Fundamentals, Aerodynamics, Aviation Communication Technology, Aircraft Principle and Structure, UAV Introduction and Flight Regulations, UAV Construction and Manufacturing, UAV Flight Control Technology, Professional English, UAV Assembly and Maintenance, Electrical and Electronic Fundamentals, Remote Sensing Digital Image Processing, etc.

Employment Prospect

UAV application enterprises: UAV remote sensing data collection and processing, environmental monitoring, power inspection, agricultural plant protection, image aerial photography, photogrammetry, etc.

Program Name

New energy vehicle technology

Program Definition

New energy vehicle technology mainly studies the basic knowledge and skills of new energy vehicle electrical and electronic technology, new energy vehicle chassis technology, drive motor and control technology, etc., and conducts new energy vehicle structure, electronic control technology, charging operation and maintenance in the field of new energy vehicle technology. New energy vehicles can be divided into the following categories: pure electric vehicles, hybrid vehicles, plug-in hybrid vehicles, extended-range hybrid vehicles, and fuel cell vehicles.

Core Subject Courses

Electric Vehicle Principle and Maintenance, Power Battery and Drive Motor, Automotive New Energy and Energy-saving Technology, Automotive Chassis Construction and Maintenance, Automotive Electrical Equipment Construction and Maintenance, Automobile Performance and Testing, Automotive Body Electronic Control Technology, Auto Insurance and Claims, Electrical and Electronic Technology, New Energy Vehicle Technology, etc.

Employment Prospect

Automotive maintenance enterprises: new energy vehicles after-sales technical consultation, maintenance and repair, electrical and electronic and mechanical system fault diagnosis and elimination.

099 AUTOMOTIVE ELECTRONICS TECHNOLOGY

Program Name

Automotive electronics technology

Program Definition

Automotive electronics technology mainly studies the basic knowledge and skills of electrical and electronic technology, automobile engine electronic control system testing, automobile single chip microcomputer and bus technology, automobile air conditioning overhaul and other aspects, and conducts the use, testing, maintenance and repair of automotive electrical and electronic equipment in the field of automotive electronic technology. Automotive electronics include power supply system, start system, ignition system, lighting system, signal system, instrument system and auxiliary equipment system, engine electronic control system, chassis electronic control system, comfort system, etc.

Core Subject Courses

Automobile Structure, Automotive Electronic Control Technology, Automotive Electric Drive Technology, Automotive Fault Detection and Diagnosis Technology, Automotive Audio and Video Technology, Single-chip Application Technology, Electrical Control, Electronic Product Drawing and Boarding, Marketing and Management, Computer Application Fundamentals, Electrical and Electronic Technology Fundamentals, Automobile Electrical Equipment Construction and Maintenance, etc.

Employment Prospect

Automobile maintenance enterprises: automobile electronic control system, electronic components detection, fault analysis and maintenance, installation and debugging of electronic products, etc.

Program Name

Food biotechnology

Program Definition

Food biotechnology mainly studies the basic knowledge and skills of food chemistry, food microbiology, food processing and inspection, etc., and conducts food research and development, production, inspection, analysis, quality control, etc. For example: the research and development and production of new snacks, the processing of meat products such as sausages and dried meat, the processing of dairy products such as yogurt, milk, and milk chips, the inspection and analysis of food nutrients and additives, and the control of food quality and hygiene.

Core Subject Courses

Inorganic and Analytical Chemistry, Food Chemistry, Food Microbiology, Food Nutrition and Hygiene, Meat Product Processing Technology, Fermented Food Production Technology, Dairy Product Processing Technology, Enzyme Preparation Biology Technology, Functional Food Processing Technology, Food Analysis and Inspection, etc.

Employment Prospect

Food enterprises: food production, food analysis, quality control, new product development; inspection enterprises and institutions: food inspection.

101 BIOLOGICAL PRODUCT INSPECTION AND QUARANTINE

Program Name

Biological product inspection and quarantine

Program Definition

Biological product inspection and quarantine mainly studies the basic knowledge and skills of biochemistry, animal and plant quarantine, microbiological inspection, food hygiene inspection, etc., and conducts inspection and quarantine and sanitary inspection of animal, plant, agricultural and livestock products. For example: inspection and prevention of animal and plant diseases and pests of chickens, ducks, wheat, rice, etc., inspection and testing of pesticide residues in vegetables, quarantine and health inspection of poultry and livestock products such as pork and beef, etc.

Core Subject Courses

Biochemistry, Microbiology, Plant Pathology, Entomology, Plant Inspection and Quarantine, Animal Hygiene Inspection, Microbial and Immunological Inspection Technology, Food Hygiene Inspection Technology, Pest Risk Analysis, Animal and Plant Inspection and Quarantine Regulations, etc.

Employment Prospect

Sanitation, inspection, agricultural enterprises and institutions: animal and plant inspection and quarantine, agricultural and livestock products health and safety testing.

Program Name

Petroleum refining technology

Program Definition

Petroleum refining technology mainly studies the basic knowledge and skills of chemistry, petroleum refining technology, petroleum processing technology and equipment, etc., and conducts production operation, technology development, process design, etc. for petroleum refining and petrochemical enterprises. For example: distillation, separation, cracking and refining of crude oil, production of petroleum products such as gasoline, diesel oil, lubricating oil, petroleum asphalt, optimization design of petroleum processing technology, etc.

Core Subject Courses

Inorganic Chemistry, Analytical Chemistry, Organic Chemistry, Petroleum Processing Technology, Chemical Reaction Engineering, Chemical Unit Operation and Equipment, Fuel Oil Production Technology, Lubricating Oil Production Technology, Reaction System Principle and Equipment, Production Process Automation and Control, etc.

Employment Prospect

Petroleum enterprises: petroleum refining, petroleum processing, technology development, production management, process design.

Program Name

Petrochemical technology

Program Definition

Petrochemical technology mainly studies the basic knowledge and skills of chemistry, petroleum processing technology and equipment, petrochemical technology, etc., and conducts production and processing, quality inspection, product analysis, storage and transportation of petroleum products, chemical raw materials and products. For example: the production of petroleum products such as gasoline, kerosene, liquefied petroleum gas, and asphalt; the production of chemical raw materials such as ethylene, butadiene, and benzene; the production of petrochemical products such as plastics, synthetic fibers, synthetic rubber, and paints.

Core Subject Courses

Inorganic Chemistry, Organic Chemistry, Analytical Chemistry, Chemical Principles, Petroleum Processing Technology, Petroleum Refining Engineering, Petroleum Product Analysis, Petroleum Processing and Production Technology, Oil Storage and Transportation Technology, Chemical Instrument Automation, etc.

Employment Prospect

Petroleum enterprises: petroleum processing, chemical raw material production, product analysis, quality inspection, oil storage and transportation.

104 FURNITURE DESIGN AND MANUFACTURING

Program Name

Furniture design and manufacturing

Program Definition

Furniture design and manufacturing mainly studies the basic knowledge and skills of furniture drawing, furniture structure design, furniture manufacturing technology, furniture watch decoration, etc., and conducts product development design, store design, soft decoration design, etc. in the field of furniture design and manufacturing. For example: furniture structure design, production management, quality inspection, furniture marketing, etc.

Core Subject Courses

Furniture Drawing and Recognition, Furniture Materials, Design Composition, CAD, Photoshop, 3dmax, Furniture Equipment Operation and Maintenance, Furniture Design Technology, Furniture Manufacturing Technology, Furniture Surface Decoration Technology, Furniture Quality Inspection Technology, CNC Processing Technology, Sketch and Color, Furniture Design, Furniture Manufacturing Technology, etc.

Employment Prospect

Furniture manufacturing enterprises: furniture design and manufacture, furniture quality inspection, furniture marketing, interior decoration, wood product production, etc.

105 FOOTWEAR DESIGN AND CRAFTSMANSHIP

Program Name

Footwear design and craftsmanship

Program Definition

Footwear design and craftsmanship mainly studies the basic knowledge and skills of shoemaking process operation, shoe material cognition and application, shoe design and production, shoe color matching and other aspects and carries out finished shoe design, fashion creative design, shoe pattern computer-aided design, shoe development, brand planning and operation, etc. in the field of shoe design and technology. For example: shoe product design, shoe product plate-making, last design, etc.

Core Subject Courses

Sketch, Color Painting, Plane Composition, Three-dimensional Composition, Color Composition, Shoes and Boots Modeling Design, Shoes Materials Science, Shoemaking Machinery, Shoes and Boots Effect Drawing Techniques, Shoes and Boots Modeling Design, Leather Shoes Design, Sneaker Design and Boarding, Shoemaking Process Operation, Shoe Last Design, Graphic Design, Computer Color Matching, Shoe Design and Performance, etc.

Employment Prospect

Footwear enterprises: shoe sample development, computer color matching, sole design, shoe last design, finished shoe quality inspection, etc.

106 JEWELRY TECHNOLOGY AND MANAGEMENT

Program Name

Jewelry technology and management

Program Definition

Jewelry technology and management mainly studies the basic knowledge and skills of jewelry identification, jewelry design and flower carving, jewelry design and inlay, etc., and conducts jewelry processing, jewelry evaluation, and gemstone instrument operation in the field of jewelry technology and management. The world's famous jewelry includes Hope Star, Graff Diamond Peacock Brooch, Wetterbach-Graff Diamond, Pink Star, Oppenheimer and so on.

Core Subject Courses

Precious Metal Jewelry Materials, Jewelry Production Technology, Jewelry CAD, Jewelry Production Quality Inspection and Defect Analysis, Jewelry Enterprise Management, Gems and Jade Processing, Jewelry and Jade Identification, Crystal Chemistry, etc.

Employment Prospect

Jewelry processing enterprises: jewelry design, gem identification, gem cutting and processing, evaluation and appraisal of finished jewelry, etc.

107 PACKAGING ENGINEERING TECHNOLOGY

Program Name

Packaging engineering technology

Program Definition

Packaging engineering technology mainly studies the technical knowledge and skills of packaging materials, packaging machinery and equipment, packaging structure design, packaging modeling, etc., and conducts commodity packaging design, packaging printing production, packaging decoration design and computer production in the field of packaging engineering technology. For example: packaging process design, transportation packaging design, packaging materials and packaging testing, etc.

Core Subject Courses

Packaging Machinery and Equipment, Packaging Materials, Packaging Technology, Packaging Decoration Design, Packaging Structure Design, Packaging Modeling, Transportation Packaging, Packaging Testing Technology, Engineering Mechanics , Engineering Fluid Mechanics, Engineering Graphics, Mechanical Principles, Thermodynamics, Electrical Engineering, Computer Fundamentals, Industrial Art Fundamentals, etc.; Packaging CAD, Packaging Automation, Packaging and Sales Psychology, Packaging Art Appreciation, Packaging Management, Advertising Design, etc.

Employment Prospect

Packaging products enterprises: packaging and printing process flow, packaging equipment operation, packaging product quality control and testing, packaging and printing management, etc.

Program Name

Packaging planning and design

Program Definition

Packaging planning and design mainly studies the basic knowledge and skills of packaging design, pre-press design, packaging materials and post-press technology, packaging and decoration, etc., and conducts packaging planning, graphic creative design, and soft text planning in the field of packaging planning and design. For example: print advertising design, Internet packaging design, packaging cost accounting, etc.

Core Subject Courses

Packaging Structure Design, Packaging Computer Aided Design, Packaging Materials Science, Packaging Decoration Design, Principles of Color Science, Photography Technology, Graphic Design, Photoshop Image Processing Technology, VI Design, 3D Printing Technology, Packaging Planning and Marketing, Packaging Decoration Design, etc.

Employment Prospect

Packaging design enterprises: packaging process design, packaging quality inspection, packaging planning, packaging structure design, packaging and decoration design.

109 PRINTING EQUIPMENT APPLICATION TECHNOLOGY

Program Name

Printing equipment application technology

Program Definition

Printing equipment application technology mainly studies the basic knowledge and skills of printing machine structure and operation, printing machine fault and troubleshooting, printing machine circuit, electrical control and PLC, etc., and carries out printing machine production and control, printing machine operation and maintenance, printing equipment manufacturing and assembly in the field of printing equipment application technology. Common printing equipment includes origami machines, paper cutters, glue binding machines, etc.

Core Subject Courses

Mechanical Application Technology, Electrical Technology, Mechanical Equipment Control Technology, Print Color Control Technology, Printing Materials and Processes, Printing Machine Structure and Adjustment Technology, Printing Troubleshooting, Mechanical Drawing , Post-press processing technology and equipment and so on.

Employment Prospect

Machinery manufacturing enterprises: manufacturing, installation, commissioning, operation, maintenance, management or sales and after-sales service of printing machinery and equipment.

Program Name

Modern textile technology

Program Definition

Modern textile technology mainly studies the basic knowledge and skills of textile materials, textile technology, knitted fabric design, textile testing and analysis, etc., and conducts modern textile industry process design, product development, and technical management in the field of modern textile technology. For example: knitting production management, quality control, technological transformation, new product development, knitwear trade, etc.

Core Subject Courses

Textile Materials Science, Spinning Technology, Weaving Technology, Textile Enterprise Management, Textile Trade, Modern Textile Electromechanical Technology, Textile Testing, Dyeing and Finishing Technology, Textile Fiber, Texture CAD, Textile Management and Trade, etc.

Employment Prospect

Textile enterprises: product testing and textile marketing, operation and maintenance of textile machinery, etc.

Program Name

Garment design and craft

Program Definition

Clothing Design and Craft mainly learn the basic knowledge and basic skills of clothing design, clothing technology and clothing production management, master the principles of clothing modeling and structural design, and be able to complete clothing styles and crafts through computer-aided design tools. Such as clothing board, sample making, clothing design and so on.

Core Subject Courses

Clothing Design, Clothing Graphic Structure Design, Clothing Industry Board, Clothing Dimensional Cutting, Clothing CAD, Clothing Technology, Clothing Production Management, Clothing Documentary, Design Sketch , Apparel Color and Pattern Design, Fundamentals of Apparel Sewing Technology, Fashion Painting Hand-painted and Computer Expression, Apparel Engineering, etc.

Employment Prospect

Apparel industry: Apparel design and development, apparel production process design, apparel production management.

Program Name

Textile design

Program Definition

Textile design mainly studies the basic knowledge and skills of weaving pattern design, fabric design, computer graphics and creativity, and conducts textile fabric design, home textile product design, decorative textile design, etc. in the field of textile design. For example: textile pattern design, modeling design, quality inspection, etc.

Core Subject Courses

Textile Materials Science, Textile Art Fundamentals, Fabric Organization, Textile CAD, Textures, Fabric Properties and Styles, Textile Foreign Trade, Textile Materials and Testing, Textile Testing and Standards, Modern Spinning Technology and Equipment, Modern Textile Materials, Textile Color and Pattern Design, etc.

Employment Prospect

Textile enterprises: textile fabric design, pattern design, textile logistics and related product design, trade, etc.

113 INTELLIGENT FOOD PROCESSING TECHNOLOGY

Program Name

Intelligent food processing technology

Program Definition

Intelligent food processing technology mainly studies the basic knowledge and skills of food production technology, quality control, new product development, food enterprise management and other aspects, and conducts food production and management, quality control, product research and development, etc. For example: processing, product testing, storage and preservation of seafood products such as fish and shrimp, processing and production of grain, oil, and baked foods, etc.

Core Subject Courses

Food Analysis, Food Chemistry, Food Microbiology, Food Machinery and Equipment, Dairy Product Processing Technology, Food Microbiology, Fruit and Vegetable Storage and Processing Technology, Food Nutrition and Hygiene, Fermented Food Technology, Food Analysis and Inspection, etc.

Employment Prospect

Food enterprises and institutions: food production, food quality monitoring, food hygiene inspection, food engineering design, food development, food marketing, food storage, transportation and management.

Program Name

Food quality and safety

Program Definition

Food quality and safety mainly studies the basic knowledge and skills of food quality control and management, food testing and analysis, etc., and conducts food production and quality control, food quality supervision and management, food safety testing and analysis, etc. For example: nutritional component testing and safety inspection of sausage, bread and other foods, monitoring, storage and transportation of animal husbandry and agricultural products, scientific research on food, etc.

Core Subject Courses

Food Analysis, Food Chemistry, Food Microbiology, Food Machinery and Equipment, Dairy Product Processing Technology, Food Microbiology, Fruit and Vegetable Storage and Processing Technology, Food Nutrition and Hygiene, Fermented Food Technology, Food Analysis and Inspection, etc.

Employment Prospect

Food enterprises and institutions: production management of food raw materials, semi-finished products and finished products, food quality control, inspection and testing, quality certification, safety evaluation, food safety and quality supervision.

Program Name

Food nutrition and health

Program Definition

Food nutrition and health mainly studies basic knowledge and skills in nutrition, food hygiene, food testing technology, etc., and conducts public nutrition, clinical nutrition dietary calculation, nutrition consultation and evaluation, food hygiene inspection and supervision, health assessment, nutritional catering and production, etc. For example: nutritional collocation and scientific catering of cooked food, nutritional survey and quality evaluation, prevention and control of contamination by harmful substances in various links such as food processing, transportation, storage, and sales.

Core Subject Courses

Nutrition and Food Hygiene, Basics of Nutrition, Clinical Nutrition, Preventive Medicine, Food Toxicology, Basics of Traditional Chinese Medicine, Health Evaluation, Nutritional Meal Design, Meal Preparation Technology, Health Products and Sub-health, etc.

Employment Prospect

Food enterprises and institutions: food hygiene supervision, food safety testing, nutritional catering, menu design, dish marketing, public nutrition, public health service and management.

116 FOOD INSPECTION AND TESTING TECHNOLOGY

Program Name

Food inspection and testing technology

Program Definition

Food inspection and testing technology mainly studies the basic knowledge and skills of food quality and safety inspection and testing, food production management, food nutrition catering and design and conducts food inspection, food nutrition analysis, food quality and safety evaluation and control, food production management, etc. For example: quality inspection of food raw materials, auxiliary materials, semi-finished products, finished products and by-products, detection of pesticide residues in vegetables and fruits, safety detection, evaluation and control of food adulteration and genetically engineered food, causes of food poisoning and food-borne diseases and control etc.

Core Subject Courses

Nutritional Catering and Design, Food Nutrition and Hygiene, Food Safety and Nutrition, Dietary Survey and Evaluation, Food Quality Management, Food Quality and Safety Control Technology, Cooking Technology, Food adulteration identification test, Identification and Application of Food Additives, Food Chemistry, Food Analysis and Testing, Fundamentals of Food Processing, Food Microbiology, Food Enzymology, Food Physical and Chemical Inspection Technology, Principles of Food Engineering, Food Storage and Processing, etc.

Employment Prospect

Food enterprises and institutions: food production, food nutrition management, food catering design, food preservation, food quality analysis and testing, product safety assessment and control, product planning, product design, product sales, and technical management.

Program Name

Drug quality and safety

Program Definition

Drug quality and safety mainly studies the basic knowledge and skills of quality inspection and quality management of raw materials, intermediate products and finished drugs, and conducts quality inspection and quality management in the whole process of drug development, production and distribution. For example: quality control and testing of finished vaccines, safety inspection of drugs through microscopic identification, physicochemical identification or thin-layer chromatography identification, etc.

Core Subject Courses

Pharmacognosy, Safety Production Knowledge, Medicinal Chemistry, Pharmaceutics, Chinese Medicinal Materials Inspection, Production and Operation Quality Management, Modern Testing Technology, Drug Quality Management Technology, Analysis and Inspection Equipment Maintenance, Biological Product Quality Inspection, etc.

Employment Prospect

Pharmaceutical enterprises and institutions: drug physical and chemical testing, quality supervision, instrument analysis, biological testing and drug quality management, drug research and development and sales.

118 FOOD AND DRUG SUPERVISION AND ADMINISTRATION

Program Name

Food and drug supervision and administration

Program Definition

Food and drug supervision and administration mainly studies the basic knowledge and skills of drug quality management, food quality management, quality inspection, etc., and conducts quality control and supervision and management during food and drug production and operation. For example: detection of toxic and harmful substances, excessive additives in food, drug safety monitoring, quality inspection, etc.

Core Subject Courses

Pharmacology, Pharmaceutics, Drug Storage and Maintenance Technology, Chinese Proprietary Pharmacy, Food and Its Products Inspection, Grain and Oil Storage Technology, Food Safety and Quality Control, Pharmaceutical Service Technology , Pharmacy Management Practice, Automatic Control Technology of Grain Processing, etc.

Employment Prospect

Food and drug enterprises and institutions: food and drug production, product process design, product quality inspection, analysis and control, product quality supervision and management.

119 REHABILITATION ENGINEERING TECHNOLOGY

Program Name

Rehabilitation engineering technology

Program Definition

Rehabilitation engineering technology mainly studies the basic knowledge and skills of clinical medicine, kinesiology, rehabilitation therapy, rehabilitation equipment and auxiliary equipment, etc., and conducts auxiliary design, production, assembly, quality inspection, maintenance, marketing management and after-sales service of rehabilitation equipment. Common rehabilitation devices include: prosthetics, orthoses, wheelchairs, etc.

Core Subject Courses

Kinesiology, Medical Physics, Rehabilitation Assessment, Clinical Kinesiology, Physical Therapy, Traditional Chinese Rehabilitation Therapy, Occupational Therapy, Rehabilitation Engineering, Medical and Surgical Diseases, Musculoskeletal Rehabilitation, etc.

Employment Prospect

Rehabilitation equipment enterprises: manufacturing, quality inspection, installation and commissioning, maintenance and after-sales service.

120 HEALTH FOOD QUALITY AND MANAGEMENT

Program Name

Health food quality and management

Program Definition

Health food quality and management mainly studies basic knowledge and skills in medicine, life science, nutrition, health food science, etc., and conducts health care products, food production, quality inspection, business management, etc. For example: the production of nattokinase food additives that have special effects on three high, weight loss and detoxification, the production and management of supplementary food for increasing bone density and improving nutritional anemia, and the research and development of medicinal health products.

Core Subject Courses

Basic Medicine, Chinese Pharmacy, Immunology, Nutrition, Dietotherapy of Chinese Medicine, Pharmaceutical Preparation Analysis, Microbiology and Immunology, Food Engineering Principles, Health Products Production Technology and Equipment, Nutrition and Health Care, etc.

Employment Prospect

Health care products enterprises and institutions: health care product production, health care product quality testing, health care product management, health care product research and development and marketing, nutrition and health care consulting and guidance.

121 GRAIN ENGINEERING TECHNOLOGY AND MANAGEMENT

Program Name

Grain engineering technology and management

Program Definition

Grain engineering technology and management mainly studies the basic knowledge and skills of grain and oil storage, grain and oil quality inspection, etc., and conducts grain production technology management, grain and oil product processing, grain product inspection and storage, and grain machinery installation and debugging. For example: warehouse pest control in grain storage and transportation, grain ventilation and dust removal and material transportation, design and maintenance of grain production and operation systems, etc.

Core Subject Courses

Inspection of Grain and Its Products, Grain Processing Technology, Automatic Control Technology of Grain Processing, Feed Processing and Testing Technology, Ventilation, Dust Removal and Material Transportation, Grain and Oil Storage Technology, Food Safety and Quality Control , Design and Installation of Grain Processing Plants, Pulverizing Technology and Equipment, Mechanical Design Fundamentals, etc.

Employment Prospect

Grain enterprises and institutions: grain production, product procurement, storage and pest control, grain product processing, process design, new product development, and sales.

122 GRAIN STORAGE AND TRANSPORTATION AND QUALITY SAFETY

Program Name

Grain storage and transportation and quality safety

Program Definition

Grain storage and transportation and quality safety mainly study the basic knowledge and skills of grain and oil storage, grain and oil inspection, storage and logistics, etc., and carries out grain and oil storage and quality inspection, hygiene inspection, etc. For example: routine items inspection of grains such as wheat, rice, corn, soybeans, etc., formulation of grain treatment plans such as condensation, heat, mildew, insect pests, etc., overall plan design of grain and oil in and out storage, etc.

Core Subject Courses

Grain and Oil Storage, Grain and Oil Transportation, Grain Condition Inspection, Grain and Oil Food Safety Inspection, Grain and Oil Storage Technology, Grain Microbiology, Granary Machinery, Grain Pest Control, Grain and Oil Storage Business Management, Granary and Laboratory Electrical Appliances, etc.

Employment Prospect

Grain and oil enterprises and institutions: grain and oil storage, grain and oil transportation and storage operations, grain condition inspection, grain condition control and processing, grain quality inspection, oil quality inspection, grain and oil logistics and sales.

123 RAILWAY ENGINEERING TECHNOLOGY

Program Name

Railway engineering technology

Program Definition

Railway engineering technology mainly studies the basic knowledge and skills of engineering mechanics, soil mechanics, engineering surveying, railway engineering, etc., and conducts railway and subway design, construction, quality inspection, supervision, maintenance, etc. For example: the selection and survey and design of railway lines, the measurement and construction of railways and subways, the planning and design of railway stations, the maintenance of railway tracks, etc.

Core Subject Courses

Railway Engineering Surveying, Engineering Drawing and CAD, Engineering Mechanics, Soil Mechanics and Geotechnical Testing, Building Materials, Engineering Geology, Structural Design Principles, Railway Lines and Stations, Subgrade Engineering, Railway Track, etc.

Employment Prospect

Railway units: design, construction, maintenance, management and supervision of railway projects.

124 HIGH-SPEED RAILWAY CONSTRUCTION AND MAINTENANCE

Program Name

High-speed railway construction and maintenance

Program Definition

High-speed railway construction and maintenance mainly studies basic knowledge and skills in architectural mechanics, engineering drawing and CAD, engineering surveying, high-speed railway engineering, etc., and conducts high-speed railway surveying, construction, overhaul, maintenance, and management. For example: measurement and construction of high-speed railway projects, railway construction organization and management and budget estimation, inspection and maintenance of high-speed railway lines, etc.

Core Subject Courses

Architectural Engineering Drawing, Engineering Surveying, Architectural Mechanics, Engineering Material Testing and Inspection, Architectural Engineering CAD, Introduction to High-speed Railway, High-speed Railway Precision Measurement, High-speed Railway Track Engineering, High-speed Railway Line Monitoring and Maintenance, High-speed Railway Engineering Construction Organization, etc.

Employment Prospect

High-speed railway units: engineering survey, engineering construction, line inspection, high-speed railway maintenance, railway overhaul.

125 RAILWAY BRIDGE AND TUNNEL ENGINEERING TECHNOLOGY

Program Name

Railway bridge and tunnel engineering technology

Program Definition

Railway bridge and tunnel engineering technology mainly studies basic knowledge and skills in engineering mechanics, engineering drawing, railway bridge engineering, railway tunnel engineering, etc., and conducts survey, construction, maintenance, and management of railway bridges and tunnels. For example: terrain survey of railway bridges, structural design of railway tunnels, construction and maintenance of railway bridges and tunnels, etc.

Core Subject Courses

Bridge Superstructure Construction, Bridge Substructure Construction, Construction Site Management, Railway Line Construction, Railway Tunnel Construction, Engineering Measurement and Pricing, Structural Design Fundamentals, Railway Engineering Drawing and CAD, Engineering Mechanics, Engineering Surveying, etc.

Employment Prospect

Railway units: bridge and tunnel survey, construction, maintenance and management.

Program Name

Railway vehicle technology

Program Definition

Railway vehicle technology mainly studies basic knowledge and skills of vehicle dynamics, rail vehicle structure, braking device, electrical device, refrigeration device, testing and maintenance technology, etc., and conducts fault detection, repair, maintenance and management of rail vehicles. Common rail vehicles include: trains, bullet trains, subways, urban railways, etc.

Core Subject Courses

Introduction to Railways, Vehicle Dynamics Fundamentals, Electrical Equipment for EMUs, Vehicle Construction and Maintenance, Vehicle Braking and Maintenance, Vehicle Inspection and Safety Monitoring, Vehicle Operation and Management, Vehicle Electrical Equipment Inspection and Maintenance, Vehicle Refrigeration and Air Conditioning Equipment, Urban Rail Transit Vehicle Traction Drive, etc.

Employment Prospect

Railway and subway enterprises and institutions: rail vehicle overhaul, rail vehicle maintenance, rail vehicle inspection, and vehicle management.

127 HIGH SPEED RAILWAY COMPREHENSIVE MAINTENANCE TECHNOLOGY

Program Name

High speed railway comprehensive maintenance technology

Program Definition

High-speed railway comprehensive maintenance technology studies the integration of comprehensive maintenance knowledge and technical skills of high speed railway lines, roadbed, bridges, tunnels, signal, catenary, electricity and other facilities (hereinafter generally referred to as the high-speed rail infrastructure), and trains high quality technical personnel to engage in high speed railway infrastructure operation and maintenance and general-speed railway integrated maintenance production work.

Core Subject Courses

Precision Measurement Technology of High-speed Railway Infrastructure, High-speed Railway Infrastructure Inspection Data Analysis, High-speed Railway Line Construction and Maintenance, High-speed Railway Bridge and Tunnel Equipment Construction and Maintenance, Four Electric Systems, High-speed Railway Signal Equipment Construction and Maintenance , High-speed rail catenary structure and operation and maintenance and so on.

Employment Prospect

High-speed railway infrastructure operation and maintenance field: high-speed railway equipment and facility inspection, fault diagnosis and emergency response, general maintenance and repair, etc.

128 RAILWAY SIGNAL AUTOMATIC CONTROL

Program Name

Railway signal automatic control

Program Definition

Railway signal automatic control mainly studies the basic knowledge and skills of signal safety technology, urban rail traffic signals, railway signals, station signals, interval signals, etc., and conducts testing, repair and maintenance of railway signal equipment.

Core Subject Courses

Introduction to Railways, Mechanical Drawing and CAD, Microcomputer Principles and SCM Technology, Communication Signal Safety Technology, Analog Electronic Technology, Digital Pulse Circuit, Urban Rail Transit Signal Equipment and Construction, Station Signal Equipment Construction, Railway Signal Remote Control, Interval Signal Equipment Maintenance, etc.

Employment Prospect

Railway and rail transit units: construction, testing, maintenance, management and engineering supervision of signal equipment.

129 ROAD AND BRIDGE ENGINEERING TECHNOLOGY

Program Name

Road and bridge engineering technology

Program Definition

Road and bridge engineering technology mainly studies the basic knowledge and skills of engineering mechanics, building materials, road engineering, bridge engineering, etc., and conducts survey and design, construction, inspection and testing, repair and maintenance of highways, urban roads and bridges. For example: survey of topography and landforms of roads and highway paving areas, construction of roads, highways and bridges, inspection and testing of bridge bearing capacity, maintenance and management of highways and roads, etc.

Core Subject Courses

Road Engineering Drawing, Engineering Mechanics, Soil Mechanics and Foundation, Highway Construction Materials, Road Engineering, Bridge Engineering, Road and Bridge Engineering Measurement and Pricing, Road and Bridge Engineering Construction Technology and Construction Organization, Highway Survey Technology, Highway Maintenance and Management, etc.

Employment Prospect

Transportation and engineering enterprises and institutions: road survey, road construction, bridge construction, bridge inspection, road maintenance.

130 ROAD ENGINEERING INSPECTION TECHNOLOGY

Program Name

Road engineering inspection technology

Program Definition

Road engineering testing technology mainly studies basic theories and methods of subgrade and pavement testing, road engineering, and carries out engineering design parameters, construction quality control, construction acceptance assessment, maintenance management decision-making, etc. For example: control and assess project quality, use local raw materials to promote and apply new materials, use new technologies and new processes to improve project quality, speed up project progress, reduce project cost, and promote the progress of road construction technology.

Core Subject Courses

Traffic Safety Facilities, Mechatronic Engineering, Road Engineering, Modern Control Theory, Sensing Technology and Application, Computer Control, Detection Technology, Measurement and Control System Design, Industrial Computer Distribution Control Systems, Materials Science, etc.

Employment Prospect

Transportation and engineering enterprises and institutions: road survey, bridge inspection, engineering quality control, road maintenance, etc.

131 AUTOMOTIVE TECHNICAL SERVICE AND MARKETING

Program Name

Automotive technical service and marketing

Program Definition

Automotive technical service and marketing mainly studies the basic theory and technology of modern automobiles, and the theory and skills of vehicle and accessories marketing. Students are not only proficient in operating car diagnosis, testing and maintenance techniques, but also proficient in the use of sales and after-sales service processes and skills, having the ability to investigate and forecast the automobile market, plan automobile marketing, sell automobiles, and diagnose automobile faults. For example: auto insurance consultation, loss assessment and compensation, car purchase and credit loan, etc.

Core Subject Courses

Automobile Structure, Automotive Electrical and Electronic Fundamentals, Automotive Engine Mechanical System Maintenance, Automotive Chassis Mechanical System Maintenance, Application Writing, Speech and Eloquence, Automobile Marketing Etiquette, Automobile Display Board and Graphics Advertising Design and Production, Automobile Consumer Psychology, Automotive E-commerce, Front Desk Reception, Automobile Marketing, Auto Parts Marketing and Management, Automotive Business Communication, Automotive Trade Negotiation Skills, Automobile Insurance and Claims, Automobile Technical Service and Management, Automobile Business Etiquette Training, Automobile Marketing Training, Automobile Insurance and Claims Training, etc.

Employment Prospect

Automobile enterprises: automobile sales, automobile parts sales, automobile after-sales service, automobile transportation, automobile marketing business management.

132 AUTOMOBILE INSPECTION AND MAINTENANCE TECHNOLOGY

Program Name

Automobile inspection and maintenance technology

Program Definition

Automobile inspection and maintenance technology mainly studies the basic knowledge and skills of automobile fault detection and maintenance, automobile performance detection and maintenance, engine principle and automobile theory, and carries out automobile detection, diagnosis, maintenance, sales and service in the field of automobile detection and maintenance technology. For example: vehicle identification, evaluation, claims, vehicle accident survey, etc.

Core Subject Courses

Automotive Driving Technology, Automobile Construction and Disassembly, Engine System Diagnosis and Repair, Automotive Transmission System Inspection and Repair, Steering and Braking System Inspection and Repair, Automotive Chassis Control System Diagnosis and Repair, Automotive Electronic Control System Diagnosis and Repair, Automotive Comfort and Safety System Diagnosis and Overhaul, Car Maintenance and Maintenance, Automotive Performance Testing and Evaluation, Automobile Comprehensive Performance Fault Analysis and Diagnosis, Automobile Maintenance Operation and Management, Automobile Insurance and Claims, etc.

Employment Prospect

Automobile maintenance enterprises: automobile inspection, repair, basic maintenance of automobiles, quality inspection of automobile maintenance, etc.

133 NEW ENERGY VEHICLE INSPECTION AND MAINTENANCE TECHNOLOGY

Program Name

New energy vehicle inspection and maintenance technology

Program Definition

New energy vehicle inspection and maintenance technology mainly studies the basic knowledge and skills of new energy vehicle composition, battery design, fault diagnosis, maintenance and other aspects, and conducts new energy vehicle manufacturing, assembly and debugging, inspection and maintenance, etc. Common new energy vehicles include: pure electric vehicles, extended-range electric vehicles, plug-in hybrid electric vehicles, and fuel cell electric vehicles.

Core Subject Courses

Automotive Electronics Technology, New Energy Vehicle Battery Technology, Electric Vehicle Construction and Maintenance, Electric Vehicle Motor and Controller, Engine Emission Control, Electric Vehicle New Technology, Electric Vehicle Detection and Diagnosis Technology, Fuel Cell Design and Manufacturing, Gas Vehicle Modification Technology, Automobile Energy and Environmental Protection, etc.

Employment Prospect

Automotive enterprises: new energy vehicle manufacturing, assembly, commissioning, quality inspection, and maintenance.

Program Name

Navigation technology

Program Definition

Navigation technology mainly studies the basic knowledge and skills of navigation, marine meteorology, ship structure and equipment, ship driving, maritime communication, etc., and conducts ship operations and management. For example: driving of ships at sea, cargo transportation and management at sea, pilotage of ships at sea, etc.

Core Subject Courses

Navigation, Navigation English, Navigation Meteorology and Oceanography, Ship Principles, Ship Structure and Equipment, Ship Maneuvering and Collision Avoidance, Ship Structure and Freight, Navigation Instruments, GMDSS Communication, Ship Management, etc.

Employment Prospect

Shipping and port enterprises: ship driving, marine transportation; maritime affairs institutions: marine pilotage, marine rescue.

135 PORT AND WATERWAY ENGINEERING TECHNOLOGY

Program Name

Port and waterway engineering technology

Program Definition

Port and waterway engineering technology mainly studies the basic knowledge and skills of engineering surveying, engineering materials, port engineering, waterway engineering, water transportation engineering, canalization engineering, etc., and carries out planning, surveying, construction, inspection, management of port and waterway. For example: construction of piers, breakwaters, revetments, docks, navigation marks and other port hydraulic structures, planning, dredging and remediation of waterways, construction of barrages and ship locks, etc.

Core Subject Courses

Engineering Drawing, Engineering Surveying, Engineering Mechanics, River Dynamics, Engineering Material Testing and Testing, Principles of Hydraulic Structure Design, Soil Mechanics and Foundation Treatment, Port Engineering Construction, Waterway Improvement Construction, Water Transport Engineering and Construction Monitoring, etc.

Employment Prospect

Port and waterway enterprises: engineering surveying, port construction, waterway construction, project supervision, project inspection, etc.

Program Name

Marine engineering technology

Program Definition

Marine engineering technology mainly studies the basic knowledge and skills in mechanics, marine engineering, maintenance and repair of marine electromechanical equipment and power equipment, and carries out installation, commissioning, fault diagnosis, maintenance and repair of marine electromechanical equipment. Common marine electromechanical equipment includes ship main engine, transmission device, propeller, generator set, switchboard, steam boiler, marine pump, water generator, etc.

Core Subject Courses

Basics of Marine Engineering, Mechanism and Mechanical Transmission, Marine Diesel Engine, Marine Auxiliary Engine, Marine Electrical Equipment, Marine Automation, Operation and Disassembly of Marine Power Equipment, Ship Management, Engine Maintenance and Repair, Marine Engine English, etc.

Employment Prospect

Ships and shipping enterprises: ship repair, engine maintenance, equipment installation, fault diagnosis.

Program Name

Port and shipping management

Program Definition

Port and Shipping Management mainly studies the basic knowledge and skills of transportation, port operation management, freight forwarding, shipping agency, shipping regulations, etc., and conducts business operations and management for the front line of ports and shipping. For example: sorting of goods and management of warehouses, customs declaration and commodity inspection declaration of import and export goods, leasing, scheduling and management of ships, etc.

Core Subject Courses

Transportation, Transportation Economics, International Shipping Marketing, Port Handling Technology, Ship Agency Business Practice, International Freight Forwarding Practice, Port Operation Management, International Freight Insurance , Practice of Customs Declaration and Inspection, Practice of Shipping Regulations, etc.

Employment Prospect

Port and shipping enterprises: cargo management, storage management, berth planning, ship scheduling, customs declaration and inspection, shipping management.

Program Name

Ship inspection

Program Definition

Ship inspection mainly studies the basic knowledge and skills of electrical and electronic technology, ship materials, ship machinery and equipment, ship electrical equipment, ship inspection and repair technology, etc., and conducts ship inspection and testing, including hull inspection, ship mechanical equipment inspection, ship electrical equipment inspection, ship communication tool inspection, ship class inspection, etc.

Core Subject Courses

Engineering Mechanics, Circuits and Electronic Technology, Ship Materials, Ship Principles, Ships and Drawings, Ship Power Plants, Hull Repair and Construction Technology, Ship Engine Repair and Construction Technology, Hull and Equipment Inspection, Ship Electrical Appliances and Inspection, etc.

Employment Prospect

Ships and shipping enterprises: hull inspection, ship engine inspection, ship electrical inspection.

139 CONTAINER TRANSPORTATION MANAGEMENT

Program Name

Container transportation management

Program Definition

Container transportation management mainly studies the basic knowledge and skills of logistics, container terminal business management, multimodal transportation, international freight transportation regulations, etc., and conducts container leasing, customs declaration, transportation, management, and multimodal transportation. For example: import and export customs declaration and inspection of containers, management of empty containers, dangerous goods containers and transfer containers at the terminal, combined transportation of containers by sea and air, etc.

Core Subject Courses

Basics of Logistics Management, Cargo Science, Maritime Geography, International Freight Forwarding, Container Transport Practice, Container Terminal Business Management, Foreign Ship Tally Business, Container Multimodal Transport, Container Leasing and Management, Container Management Practice and Regulations, etc.

Employment Prospect

Shipping and port enterprises: freight forwarding, container transport management, container terminal management, container multimodal transport management.

Program Name

Helicopter piloting technology

Program Definition

Helicopter piloting technology mainly studies the basic knowledge and skills of flight principles, helicopter flight driving technology, aviation electrical and instrumentation, aviation regulations, etc., and conducts general aviation helicopter driving and flight teaching. The flight operations of modern helicopters cover many fields such as aerial photography, aerial tourism, medical rescue, meteorological detection, aerial inspection, artificial precipitation, and ocean monitoring.

Core Subject Courses

Principles of Helicopter Flight, Helicopter System, Aviation Meteorology, Air Navigation, Aviation Power Plant, Helicopter Electrical Instrumentation and Communication System, Aircraft Structure and System, Human Factors and Crew Resource Management, Flight English, Aviation Regulations, etc.

Employment Prospect

General aviation enterprises: helicopter driving, flight teaching.

Program Name

Flight attendant

Program Definition

The flight attendant mainly studies the basic knowledge and skills of civil aviation service, aviation first aid, civil aviation regulations, social etiquette and communication skills, makeup and image design, and conducts air service, etc. For example: the supply of passengers' in-flight meals, the guidance and use of on-board safety equipment, the safety confirmation in the cockpit when the plane takes off and land, the first aid for passengers' sudden illness, the organization of passengers' jumping in emergency situations, etc.

Core Subject Courses

Introduction to Civil Aviation, Service Psychology, Civil Aviation Crew Skills and Management, Cabin Safety and Emergency Response, Aviation Service Etiquette, Interpersonal Communication Theory and Practice, Passenger Aviation Organization and Management, Image Design and Makeup Skills, Civil Aviation Crew English, Civil Aviation Regulations, etc.

Employment Prospect

Civil aviation enterprises: air services.

142 AIRPORT OPERATION SERVICE AND MANAGEMENT

Program Name

Airport operation service and management

Program Definition

Airport operation service and management mainly studies the basic knowledge and skills of civil aviation service, airport service, apron service, airport operation and management, civil aviation laws and regulations, etc., and conducts airport operation command, airport ground handling service, airport ticket management, etc. For example: airport on-site scheduling and operation control, maintenance of airport roadways, aircraft oil and water supply and fuselage cleaning, supplementary loading of aircraft meals, sales and return of airport tickets, etc.

Core Subject Courses

Modern Air Transport Management, Airport Passenger and Cargo Transport Management, Air Traffic Control, Communication Navigation, Aviation Meteorological Service, Airport Operation Management, Airport Field Operation Command, Airport Planning and Engineering, Airport Field Management, Civil Aviation Regulations and Practice, etc.

Employment Prospect

Civil aviation and airport enterprises: airport operation command, airport service, ticketing service, check-in, ground handling.

143 AIRCRAFT MECHANICAL AND ELECTRICAL EQUIPMENT MAINTENANCE

Program Name

Aircraft mechanical and electrical equipment maintenance

Program Definition

Aircraft mechanical and electrical equipment maintenance mainly studies the basic knowledge and skills of electrical and electronic technology, aircraft system structure and working principle, aircraft fault diagnosis and maintenance, etc., and conducts inspection, repair and maintenance of aircraft mechanical and electrical equipment before and after flight. Common aircraft mechanical and electrical equipment are: generators, engines, power devices, electrical systems, etc.

Core Subject Courses

Electrical and Electronic Technology, Sensor and Detection Technology, Aircraft Structure Fundamentals, Aerodynamic Fundamentals, Aviation Materials, Avionics Equipment, Aviation Engine Principle and Structure, Aircraft Electrical System, Aircraft Fault Diagnosis and Monitoring Technology, Aircraft Structure Corrosion Protection and Flaw Detection, etc.

Employment Prospect

Aviation and airport enterprises: aircraft inspection, aircraft repair, aircraft maintenance.

Program Name

General aircraft maintenance

Program Definition

General aircraft maintenance mainly studies the basic knowledge and skills of mechanics, electrical and electronic technology, general aircraft structure and system, general aircraft equipment and maintenance, etc., and conducts regular inspection, troubleshooting, and maintenance of general aircraft. General-purpose aircraft refers to aircraft that are engaged in operation and flying in industries such as industry, agriculture, forestry, fishery, and construction, including agricultural aircraft, forest protection aircraft, aerial survey aircraft, and medical ambulances.

Core Subject Courses

Mechanical Design Fundamentals, Electrical Engineering Fundamentals, Aeronautical Materials and Corrosion Protection, Aerodynamic Fundamentals and Flight Principles, Aircraft Maintenance Technology Fundamentals, General Aircraft Structures and Systems, General Aircraft Power Systems, Piston Engine Structure and System, Turboshaft Engine Structure and System, General Aircraft Type Maintenance, etc.

Employment Prospect

General aviation enterprises: general aviation aircraft repair, general aviation aircraft maintenance.

145 AIRPORT FIELD TECHNOLOGY AND MANAGEMENT

Program Name

Airport field technology and management

Program Definition

Airport field technology and management mainly studies the basic knowledge and skills of airport field service, flight area site management, airport ground equipment and facility maintenance, etc., and conducts flight area maintenance and management. For example: maintenance of runways, taxiways, apron and other field facilities in the flight area, cleaning and sanitation management of the flight area pavement, renovation and refreshment of the flight area marking lines and division of various areas, regular test and analysis of the friction coefficient of the runway and glue removal of runways, etc.

Core Subject Courses

Airport English, Civil Aviation Laws and Regulations, Airport Group Mobile Office System, Airport Management Practice, Ice Prevention and De-icing Practice, Airport Fire and Rescue, Clearance Management, Airport Safety Equipment Management, Special Vehicle Driving Technology, Airline Operation and Management, etc.

Employment Prospect

Civil aviation and airport enterprises: airport field services.

Program Name

General aviation technology

Program Definition

General aviation technology mainly studies the basic knowledge and skills of aviation meteorology, general aircraft systems and equipment, general aviation operations, aviation regulations and systems, etc., and carries out general aircraft navigation support and management. For example: formulate and apply for flight plans and routes, dispatch and deploy various flight missions, and collect information and data related to meteorology and routes required for air navigation.

Core Subject Courses

Introduction to General Aviation, Flight Principles, Aviation Meteorology, Aviation Information Science, Basics of Air Traffic Control, General Aviation Flight Procedure Design and Flight Planning, General Aviation Electronic Equipment, Aeronautical Charts, Aircraft System and Power Plant, Communication and Navigation Radar Service Facilities, Aviation Regulations, etc.

Employment Prospect

General aviation enterprises: flight dispatch, aeronautical information service, airport command.

Program Name

Pipeline engineering technology

Program Definition

Pipeline engineering technology mainly studies the basic knowledge and skills of engineering mechanics, engineering measurement, engineering design, pipeline engineering construction and management, and carries out the design, construction, inspection and maintenance of pipeline engineering. For example: design and construction of natural gas transmission pipelines, planning and laying of water supply and drainage pipelines, corrosion protection of the inner and outer walls of pipelines, inspection and investigation of side leakage of pipelines, etc.

Core Subject Courses

Engineering Fluid Mechanics, Engineering Thermodynamics, Engineering Measurement, Pipeline Engineering Materials, Pipeline Engineering Structure, Pipeline Engineering Design, Pipeline Engineering Construction and Management, Pipeline Corrosion and Protection, Pipeline Insulation Engineering, Pipeline Leak Detection, etc.

Employment Prospect

Urban underground pipeline network, municipal construction enterprises: pipeline engineering design, pipeline construction, pipeline inspection, pipeline maintenance.

148 PIPELINE TRANSPORTATION MANAGEMENT

Program Name

Pipeline transportation management

Program Definition

Pipeline transportation management mainly studies the basic knowledge and skills of engineering mechanics, pipeline transportation engineering, pipeline equipment operation monitoring and management, and carries out the design of pipeline transportation engineering and the operation, maintenance, repair and management of pipeline equipment. For example: the design of water, oil and natural gas pipeline transportation projects, the repair and maintenance of pipeline equipment such as compensators, waterproof casings, rubber joints, and expansion joints, and the protection of pipeline leakage and corrosion.

Core Subject Courses

Engineering Drawing, Engineering Mechanics, Engineering Fluid Mechanics, Pipeline Engineering Materials, Pipeline Transportation Technology, Pipeline Transportation Engineering, Pipeline Transportation Fault Diagnosis, Pipeline Operation Monitoring, Pipeline Corrosion and Protection, Pipeline Equipment Operation Management, etc.

Employment Prospect

Pipeline transportation enterprises: engineering design, equipment monitoring, equipment maintenance, and technical management.

149 URBAN RAIL TRANSIT ENGINEERING TECHNOLOGY

Program Name

Urban rail transit engineering technology

Program Definition

Urban rail transit engineering technology mainly studies the basic knowledge and skills of engineering mechanics, construction machinery, road construction materials, urban rail transit engineering, etc., and conducts survey, construction, testing, overhaul, and maintenance of urban rail transit engineering. For example: survey and design of subway lines, construction of underground railways and urban light rail projects, safety testing and routine maintenance of rail transit lines, maintenance and overhaul of tracks and turnouts, etc.

Core Subject Courses

Engineering Mechanics, Rail Transit Engineering Survey, Engineering Drawing and Computer Graphics, Road Construction Materials and Testing, Engineering Geology, Urban Rail Transit Engineering Technology, Metro Light Rail Line Design, Elevated Structure, Urban Rail Transit Line Construction and Maintenance, Underground Railroad, etc.

Employment Prospect

Urban rail transit enterprises and institutions: engineering survey, urban rail construction, engineering quality inspection, rail line troubleshooting, rail line maintenance.

150 ELECTRONIC INFORMATION ENGINEERING TECHNOLOGY

Program Name

Electronic information engineering technology

Program Definition

Electronic information engineering technology mainly studies the basic knowledge and skills of electronic information engineering system integration, electronic information engineering product development, etc., and conducts electronic product design, development, debugging, maintenance, management, etc. For example: the processing of mobile phone digital signals, the integration of information big data systems in Taobao and other applications, and the use of C language for electronic programming, etc.

Core Subject Courses

Analog Electronic Technology, Digital Electronic Technology, SCM Principle and Application, Communication Principle, High Frequency Electronic Technology, WinCE Operating System and Program Development, Embedded Hardware and ADS Development, Electronic Product Production Process, Digital Circuit EAD Design, Digital Signal Processing, etc.

Employment Prospect

Information enterprises and institutions: electronic information product design, technological transformation, sales management, electronic engineering system integration, equipment installation and debugging, inspection and maintenance.

151 INTERNET OF THINGS APPLICATION TECHNOLOGY

Program Name

Internet of things application technology

Program Definition

Internet of things application technology mainly studies the basic knowledge and skills of information collection, wireless transmission, information processing, etc., and conducts network system design, project management, installation and debugging of terminal nodes, system integration, construction, etc. For example: equipment application of system perception and information collection in each link of logistics transportation, warehousing, packaging, loading and unloading, distribution processing, distribution, information service, etc., intelligent power distribution transformer monitoring and fault detection, etc.

Core Subject Courses

Introduction to the Internet of Things, Electrical Circuit Fundamentals, Computer Network Technology, Architecture Recognition, Wiring Engineering, SCM Technology and Application, Database Principle and Application, JAVA Programming, Sensor Technology and Application, Embedded System Development, etc.

Employment Prospect

Information enterprises and institutions: production, application and maintenance of Internet of Things equipment, development and maintenance of embedded systems, sales and promotion of Internet of Things system products.

Program Name

Applied electronic technology

Program Definition

Applied electronic technology mainly studies the basic knowledge and skills of intelligent electronic product design, quality inspection, production management, etc., and conducts electronic product design and development, quality inspection, production management, etc. For example: development and design of electronic product components of watches, mobile phones, and TVs, product quality inspection and management of electronic products, and computer room construction and management of electronic equipment.

Core Subject Courses

Computer Application Fundamentals, Advanced Programming Language, Basic Physics, Electrical Fundamentals, Electrical and Electronic Technology, Mechanical Drawing, High Frequency Electronic Circuits, Control Engineering Fundamentals, Electronic Measurement and Sensor Technology, Theoretical Mechanics, etc.

Employment Prospect

Electronic product enterprises and institutions: electronic product production, technical guidance, product inspection, electronic product equipment installation, debugging, maintenance, quality inspection and after-sales service, research and development of electronic products.

153 ELECTRONIC PRODUCT MANUFACTURING TECHNOLOGY

Program Name

Electronic product manufacturing technology

Program Definition

Electronic product manufacturing technology mainly studies the basic knowledge and skills of electronic equipment manufacturing, operation, maintenance, acquisition, processing and application of electronic information, and carries out electronic product production process skills and production management, new product research and development, electronic equipment assembly, debugging, maintenance, operation management and sales. For example: production and application of electronic products such as resistors, capacitors, inductors, printed circuit boards, maintenance and repair of central air conditioners, elevators and other equipment, related technology research and development and product management, etc.

Core Subject Courses

Principle of Single Chip Microcomputer, Electronic Technology, Principle of Microcomputer and Interface Technology, Signal Processing Technology, Principle of Electronic Measurement, Motor Control and Maintenance, Computer Application Fundamentals, Electronic Product Manufacturing Technology, Programmable Controller Application Technology, SCM Application Technology, Electronic Circuit CAD, Electronic Measuring Instrument, PCB Circuit Board Design and Production, Quality Management, EDA Technology, Electronic Equipment and Information System, etc.

Employment Prospect

Electronics industry: manufacturing of electronic products and electronic equipment, quality inspection, equipment maintenance, production process, process design, process documentation, quality management and product development.

154 MOBILE INTERNET APPLICATION TECHNOLOGY

Program Name

Mobile Internet application technology

Program Definition

Mobile Internet Application Technology mainly studies basic theoretical knowledge of electronics and communication related to mobile Internet technology and professional knowledge of mobile Internet, and conducts production and sales of mobile Internet, smart home, smart city, smart wear and other equipment, design, installation and maintenance of mobile Internet application system, mobile application software programming and testing, etc.

Core Subject Courses

Electronic Product Design and Production, Embedded Application Technology, Wireless Communication Technology and Application (Short Distance), Mobile Internet Equipment Installation and Debugging, Mobile Internet Application System Integration and Testing, Mobile Internet Application Design, Mobile Internet Application Comprehensive Application, etc.

Employment Prospect

Engage in the production and sales of mobile Internet, smart home, smart city, smart wear and other equipment, the design, installation and maintenance of mobile Internet application systems, and the programming and testing of mobile application software.

155 INTELLIGENT PHOTOELECTRIC TECHNOLOGY APPLICATION

Program Name

Intelligent photoelectric technology application

Program Definition

Intelligent photoelectric technology application mainly studies the basic knowledge and skills of optoelectronic technology and optoelectronic product production technology, and conducts optoelectronic technology product production, equipment maintenance, product marketing and operation management. For example: production of LED displays, solar cells and other products, application and maintenance of optoelectronic products such as ultraviolet lamps and infrared cameras, optoelectronic measurement and signal processing, etc.

Core Subject Courses

Basics of Circuit Analysis, Electronic Measurement and Instruments, Analog Electronic Circuits, Digital Electronic Technology, High-Frequency Electronic Circuits, Applied Optics, The Principle and Application of Single Chip Microcomputers, Programmable Control PLC , PCB Printed Circuit Board Design, Photoelectric Sensor Technology and so on.

Employment Prospect

Electronic enterprises and institutions: manufacturing and management of optoelectronic products, inspection and maintenance of optoelectronic products, construction and management of optoelectronic lighting projects, construction and testing of optical cable lines, sales and after-sales service of optoelectronic products.

156 COMPUTER APPLICATION TECHNOLOGY

Program Name

Computer application technology

Program Definition

Computer application technology mainly studies the basic knowledge and skills of computer system management, application software development, network management, information system management and website construction, and conducts database application development, website configuration and testing, website operation and maintenance, and technical services. For example: design and development of JD.com, Dangdang and other websites, database construction and management, software testing and maintenance, etc.

Core Subject Courses

Computer Fundamentals, Computer System Assembly and Maintenance, Website Planning and Production, Database Principles and Applications, Microcomputer Principles, Computer Network Technology, C/Java Language Programming, Graphic Design and Production, NET Programming, Graphics and Image Processing Technology, etc.

Employment Prospect

Network information enterprises and institutions: website design and development, network planning and design, network system design and testing, application software development, system management and maintenance, information product design and technical support.

Program Name

Computer network technology

Program Definition

Computer network technology mainly studies the basic knowledge and skills of computer network and network engineering, and conducts network installation and maintenance, network management, network software deployment, system integration, maintenance and marketing of computer software and hardware, database management, etc. For example: installation and debugging of computers and other equipment, testing, maintenance and repair of computer systems, multimedia design and production of web graphics, images, animations, videos, sounds, etc.

Core Subject Courses

Computer Network, Web Design and Scripting Language, Computer Assembly and Debugging, Routing and Switching Technology, Dynamic Website Development and Practice, Enterprise Network Construction, Network Server Configuration, Linux Operation System Application, Network Programming Technology, Network Security, etc.

Employment Prospect

Network information enterprises and institutions: network planning and scheme design, network installation and management, network security protection, server configuration, management and maintenance, website development, database management.

Program Name

Software technology

Program Definition

Software technology mainly studies the basic knowledge and skills of software development, mobile programming technology, etc., and carries out system software development, software testing, system maintenance, etc. For example: development and testing of office related software, development and iteration of iOS and Android systems in mobile phones, testing and maintenance of various software, etc.

Core Subject Courses

C Language Programming, Data Structure, Database Fundamentals, Web Page Design and Production, SQL Server, Oracle Database, Dynamic Website Programming, Java Programming, Java Web Application Development, Net Application Development, etc.

Employment Prospect

Software development enterprises and institutions: mobile application development, mobile game development, front-end development, software development, software testing, technical support, software maintenance, marketing after-sales service and production management.

159 INFORMATION SECURITY TECHNOLOGY APPLICATION

Program Name

Information security technology application

Program Definition

Information security technology application mainly studies the basic knowledge and skills of network security management, information security system integration and maintenance, and carries out the installation and debugging of network security products, data backup and system reinforcement, network virus prevention, website security management and so on. For example: banks, securities, customs and other network virus and hacker prevention, network information security risk assessment and detection, information security technology research and development and application.

Core Subject Courses

Computer Network Fundamentals, Establishment and Maintenance of Enterprise Networks, Windows Management and Services, Linux Management and Services, Database Technology, Network Security and Management, Static Website Design, Information Security System Evaluation, Firewall and VPN Configuration and Management, Applied Cryptography Technology, etc.

Employment Prospect

Network information enterprises and institutions: network information security risk detection and assessment, network security system design and development, information security management, network system construction, management and maintenance, server configuration and management, corporate website and software development and maintenance.

160 ARTIFICIAL INTELLIGENCE TECHNOLOGY APPLICATION

Program Name

Artificial intelligence technology application

Program Definition

Cultivate talents who have basic professional theoretical knowledge and application technology of artificial intelligence, and the ability of artificial intelligence technology application development, system management and maintenance, etc., engaging in artificial intelligence-related application development, system integration and operation and maintenance, product sales and consulting, pre-sales and after-sales technical support, etc.

Core Subject Courses

Artificial Intelligence Data Set Processing, Distributed Computing and Storage Technology, Machine Learning, Deep Learning, Intelligent Perception and Understanding, Natural Language Processing, Intelligent Product Marketing and Service, etc.

Employment Prospect

Enterprises and institutions related to artificial intelligence industry and its application: engage in artificial intelligence application product development and testing, data processing, system operation and maintenance, product marketing, technical support, etc. in artificial intelligence technology application development, system operation and maintenance, product marketing, technical support and other post groups.

161 ANIMATION PRODUCTION TECHNOLOGY

Program Name

Animation production technology

Program Definition

Animation production technology mainly studies the basic knowledge and skills of painting and design, 3D modeling and animation, film and television media production, animation design and production, etc., and carries out animation design and planning, web design and planning, advertising design, etc. For example: TV commercial title design, animation planning and production, print advertising planning, web design, etc.

Core Subject Courses

Graphic Design, Basic Photography, Photoshop, 3D Animation Modeling Design, Character and Scene Design, Stop Motion Animation Design and Production, Animation Project Planning and Proposal, Flash Animation Design, Web Design, Animation Director, etc.

Employment Prospect

Design enterprises and institutions: UI design, media design, graphic design, 3D animation, 3D special effects, 3D models, UI/UE design of mobile products, game art, video editing, commercial illustration, video packaging and post-production.

162 MODERN MOBILE COMMUNICATION TECHNOLOGY

Program Name

Modern mobile communication technology

Program Definition

Modern mobile communication technology mainly studies the basic knowledge and skills of mobile communication base station equipment maintenance, wireless network planning and optimization, mobile Internet application, etc., and carries out network planning and construction, operation management, mobile terminal application design and development, equipment marketing and maintenance, etc. For example: development and application of 3G, 4G and 5G communication technologies, development and sales of communication terminals such as mobile phones and notebooks.

Core Subject Courses

3G Terminal Technology and Application, Java Core Volume Application, Android Basic Development Training, HIBERNATE Technology Application, Software Engineering, UML Technology Application, WAP and MMS Application and Technology Development, Oracle Database Application, Android Advanced Development, Mobile Communication Equipment Installation, etc.

Employment Prospect

Communication enterprises and institutions: mobile communication equipment development, mobile software testing, enterprise resource management system development, software technical support, software sales, software after-sales maintenance, database maintenance.

163 COMMUNICATION ENGINEERING DESIGN AND SUPERVISION

Program Name

Communication engineering design and supervision

Program Definition

Communication engineering design and supervision mainly studies the basic knowledge and skills of communication principles, communication survey and measurement, etc., and conducts communication pipeline engineering design, communication equipment installation engineering design, and communication engineering supervision. For example: management of fixed telephone network and mobile communication network, design of optical cable line system for communication, quality inspection and management of communication products, etc

Core Subject Courses

Communication Engineering Drawing, Communication Line Engineering, Communication Engineering Budget, Communication Construction Project Budget and Final Account Fundamentals, Communication Pipeline Engineering Design, Project Management, Communication Pipeline Engineering Communication Equipment Training, Computer Network Technology, Communication Construction Supervision Management and Practice, Communication Equipment Engineering, etc.

Employment Prospect

Communication enterprises and institutions: survey and design of communication engineering, construction and supervision of communication engineering, project management and consultation of communication engineering, production, installation and management of communication engineering equipment.

Program Name

Nursing

Program Definition

Nursing mainly studies the basic knowledge and skills of human physiology and pathology, basic medicine, clinical nursing, preventive health care, etc., and conducts clinical nursing, community nursing and rehabilitation health care in hospitals at all levels, community health service centers, nursing homes, etc. For example: daily cleaning and care of patients who cannot take care of themselves, postpartum care for newborns and mothers, health care and disease prevention for the elderly, publicity and popularization of health knowledge, etc.

Core Subject Courses

Human Anatomy, Histology and Embryology, Pathology, Pharmacology, Foundations of Nursing, Internal Medicine Nursing, Surgical Nursing, Obstetrics and Gynecology Nursing, Pediatrics Nursing, Health Assessment, etc.

Employment Prospect

Medical and health institutions: clinical care, community care, rehabilitation care.

Program Name

Traditional Chinese Medicine

Program Definition

Traditional Chinese medicine mainly studies the basic knowledge and skills of human physiology and pathology, Chinese medicine disease diagnosis and treatment, and health rehabilitation. Graduates will be able to conduct Chinese medicine diagnosis and treatment in primary medical and health institutions in cities, communities, and rural areas. For example: Diagnose the condition by looking, listening, questioning and feeling the pulse, using Chinese herbal decoctions, acupuncture, and cupping to treat diseases and regulate the body, and perform Chinese medicine health care and Chinese medicine health preservation.

Core Subject Courses

Basic theories of TCM, TCM diagnostics, Chinese materia medica, prescriptions, ancient medical literature, TCM internal medicine, TCM surgery, TCM gynecology, TCM pediatrics, Treatise on Febrile Diseases, etc.

Employment Prospect

Primary medical and health units: TCM medical treatment and TCM health care.

166 TRADITIONAL CHINESE MEDICINE ORTHOPEDICS

Program Name

Traditional Chinese Medicine Orthopedics

Program Definition

TCM Orthopedics mainly studies the basic knowledge and skills of traditional Chinese medicine, Chinese materia medica, human physiology and pathology, diagnosis and treatment of TCM orthopaedics, etc., and conducts diagnosis, treatment, prevention, health care and rehabilitation of TCM orthopaedic diseases in medical and health institutions at all levels. For example: use pushing, pulling, pressing and other manipulations to treat bone trauma diseases such as fractures and dislocations.

Core Subject Courses

TCM Orthopedics mainly studies the basic knowledge and skills of traditional Chinese medicine, Chinese materia medica, human physiology and pathology, diagnosis and treatment of TCM orthopaedics, etc., and conducts diagnosis, treatment, prevention, health care and rehabilitation of TCM orthopaedic diseases in medical and health institutions at all levels. For example: use pushing, pulling, pressing and other manipulations to treat bone trauma diseases such as fractures and dislocations.

Employment Prospect

Medical and health institutions: clinical treatment of bone injuries in traditional Chinese medicine, and prevention and health care of bone injuries in traditional Chinese medicine.

167 ACUPUNCTURE AND MASSAGE

Program Name

Acupuncture and massage

Program Definition

Acupuncture and massage mainly studies the basic knowledge and skills of TCM, Chinese materia medica, human acupoints, acupuncture and massage operation techniques, and carries out acupuncture and massage treatment, rehabilitation and health care. For example: acupuncture of human body specific acupoints, moxibustion fumigation of body surface acupoints, hands massage of human meridians and acupoints, scraping and rubbing human body surface skin with scraping instruments, etc.

Core Subject Courses

Human anatomy, physiology, pathology, meridians and acupoints, acupuncture and moxibustion, acupuncture and moxibustion therapy, massage techniques, massage therapy, TCM regimen, scraping, etc.

Employment Prospect

Medical and health institutions: acupuncture treatment, massage treatment, rehabilitation and health care.

168 1 CHINESE MEDICINAL MATERIALS PRODUCTION AND PROCESSING

Program Name

Chinese medicinal materials production and processing

Program Definition

Chinese medicinal materials production and processing mainly studies the basic knowledge and skills of Chinese medicinal materials identification, Chinese medicinal materials pre-treatment, TCM preparation production, TCM preparation detection, TCM preparation dispensing and marketing, and carries out TCM preparation production, quality inspection, marketing and management, etc. For example: TCM solid medicine anti-corrosion and insect prevention, pharmaceutical products microbial pollution prevention, important products frying, heating, calcining, processing and so on.

Core Subject Courses

Medicinal botany, cultivation technology of medicinal plants, identification of Chinese materia medica, resource science of Chinese materia medica, prevention and control of diseases and insect pests of medicinal plants, processing technology of Chinese medicinal materials at the place of origin, processing of Chinese medicine decoction piece, preparation of Chinese medicine extract, identification technology of Chinese medicine, quality testing technology of Chinese medicine, etc.

Employment Prospect

Chinese medicine enterprises and institutions: Chinese medicine production and processing operation, identification of Chinese medicine extract and decoction piece, Chinese medicine storage and preservation, Chinese medicine production organization and management, Chinese medicine sales, technology promotion, development and production management.

169 TRADITIONAL CHINESE MEDICINE REHABILITATION TECHNOLOGY

Program Name

Traditional Chinese medicine rehabilitation technology

Program Definition

Traditional Chinese medicine rehabilitation technology mainly studies the basic knowledge and skills of TCM, TCM regimen, rehabilitation technology, etc., and carries out the rehabilitation of common diseases and TCM health care. For example: the use of acupuncture, massage, cupping, scraping and other therapies for the rehabilitation treatment of cervical spondylosis, lumbar disease and other diseases, the use of medicinal diet, dietary therapy for TCM health care in order to prevent diseases and prolong life.

Core Subject Courses

Fundamentals of TCM, Diagnosis of TCM, meridian science, acupuncture and moxibustion science, massage science, TCM regimen, rehabilitation assessment technology, physical therapy technology, occupational therapy technology, speech therapy technology, etc.

Employment Prospect

Rehabilitation institutions, sanitariums: rehabilitation treatment, TCM health care.

170 TRADITIONAL CHINESE MEDICINE HEALTH CARE

Program Name

Traditional Chinese Medicine Health Care

Program Definition

Traditional Chinese medicine health care mainly studies the basic knowledge and skills of TCM, nutrition, TCM health care, health assessment and management, and carries out TCM health care and TCM recuperation. For example: TCM massage, massage health care, TCM acupuncture and moxibustion, scraping conditioning, sub-health detection and conditioning, the production of medicinal food, etc.

Core Subject Courses

Basic theory of TCM, nutrition, medicated diet therapy technology, TCM regimen, diet and health care of TCM, sports and health care of TCM, TCM Qigong health care, TCM acupuncture and massage for health care, health assessment, health management, etc.

Employment Prospect

Medical care institutions: TCM health care, TCM regimen guidance.

Program Name

Medicinal Diet and Diet Therapy

Program Definition

Medicinal diet and diet therapy mainly studies the basic knowledge and skills of Traditional Chinese medicine(TCM), nutrition, medicinal diet production, formula of medicinal diet and other aspects, and uses medicinal diet and dietary therapy to carry out health care and recuperation of TCM. For example: the production of medicated food, sub-health detection and conditioning, sexual sub-health medicated food therapy.

Core Subject Courses

Basic theory of TCM, nutrition, pharmacology of TCM, pharmaceutical technology of TCM, dietary therapy technology of medicinal diet, TCM regimen, health science of TCM diet, health assessment and management, etc.

Employment Prospect

Medical and health care institutions: comprehensive intervention and regulation of sub-health, TCM health care, TCM regimen guidance.

172 MEDICAL LABORATORY TECHNOLOGY

Program Name

Medical laboratory technology

Program Definition

Medical laboratory technology mainly studies the basic knowledge and skills of chemistry, basic medicine, clinical testing, etc., and conducts clinical testing, health testing, and pathological testing in primary medical and health institutions, blood stations, and disease control centers. For example: blood type test before blood transfusion, blood glucose, hemoglobin, virus and other substances test, hemostasis and coagulation function test, pathological test of tumor tissue, etc.

Core Subject Courses

Biochemistry, Analytical Chemistry, Histology and Embryology, Physiology, Clinical Laboratory Basics, Clinical Biochemical Testing, Clinical Hematology Testing, Clinical Microbiology Testing, Clinical Immunology Test, Human Parasitology Test, etc.

Employment Prospect

Primary medical and health institutions, blood stations: clinical examination, hygiene examination, pathological examination.

173 HYGIENE INSPECTION AND QUARANTINE TECHNOLOGY

Program Name

Hygiene inspection and quarantine technology

Program Definition

Health inspection and quarantine technology mainly studies the basic knowledge and skills of chemistry, basic medicine, preventive medicine, inspection and quarantine, sanitation physical and chemical inspection, etc., and conducts health inspection and quarantine of water quality, atmosphere, food, medicine, etc. For example: testing of water and air quality, hygienic testing of food and medicines, quarantine of agricultural and sideline products such as pork, chicken, vegetables, parasite testing of snails, shellfish and lobsters, etc.

Core Subject Courses

Analytical Chemistry, Biochemistry, Inspection and Quarantine, Hygienic Microbiology and Inspection, Biological Material Inspection, Physical and Chemical Inspection of Water Hygiene, Physical and Chemical Inspection of Food Hygiene, Physical and Chemical Inspection of Air Hygiene, Health Toxicology, Parasitology and Inspection, etc.

Employment Prospect

Disease control, inspection and quarantine units: food hygiene inspection, environmental hygiene inspection, animal and plant inspection, import and export inspection.

Program Name

Rehabilitation technology

Program Definition

Rehabilitation technology mainly studies basic knowledge and skills in basic medicine, rehabilitation medicine, rehabilitation therapy, etc., and performs rehabilitation therapy and rehabilitation management in hospital rehabilitation medicine departments, rehabilitation centers, and sanatoriums. Rehabilitation treatment includes exercise therapy, occupational therapy, speech therapy, physical therapy, acupuncture, cupping, massage, etc., mainly for cervical spondylosis, lumbar spondylosis, gout, osteoporosis, stroke hemiplegia and other diseases.

Core Subject Courses

Physiology, Pathology, Pharmacology, Introduction to Rehabilitation Medicine, Rehabilitation Assessment, Kinetic Therapy, Speech Therapy, Physiotherapy Therapy, Occupational Therapy Therapy, Rehabilitation Engineering, etc.

Employment Prospect

Rehabilitation institutions: rehabilitation treatment, rehabilitation management.

Program Name

Public health management

Program Definition

Public health management mainly studies basic knowledge and skills in basic medicine, preventive medicine, epidemiology and infectious diseases, public health management, etc., and conducts public health services and management, disease prevention and control, and health care. For example: Statistical analysis of the fatality rate and recovery rate of epidemics, prevention and control of epidemics and infectious diseases such as influenza and hepatitis A, and handling of public health emergencies such as food poisoning and mass epidemics.

Core Subject Courses

Basics of Epidemiology, Health Statistics, Public Health Management, Pathogen Biology, Basics of Diagnostics, Infectious Diseases, Health Law, Nutrition and Food Hygiene, Children's Hygiene, Health Education and Health Promotion, etc.

Employment Prospect

Public health institutions: public health services, public health management, preventive health care.

176 HEALTH INFORMATION MANAGEMENT

Program Name

Health information management

Program Definition

Health information management mainly studies the basic knowledge and skills of health statistics, health information management, office software and database technology, etc., and conducts the collection, processing and management of medical and health information and maintenance of network information systems in various medical and health institutions at all levels. For example: management of patient information, medical record information, health records, disease classification and data statistics, maintenance of hospital network information system, etc.

Core Subject Courses

Basics of Management, Health Information Management, Network and Office Modern Technology, Database and Statistical Software, Health Statistics and Application, Disease Taxonomy, Network Management, Medical Record Management , etc.

Employment Prospect

Medical and health institutions: disease classification, medical record management, information collection, and information system maintenance.

Program Name

Preventive medicine

Program Definition

Preventive medicine mainly studies the basic knowledge and skills of basic medicine, clinical medicine, preventive medicine, etc., and carries out the prevention and control of infectious diseases and epidemics, as well as community health services. For example, the prevention and control of infectious diseases and epidemics such as influenza, hepatitis A, and tuberculosis, the publicity and popularization of community health knowledge, the vaccination and health management of children aged 0-6, and the health examination of pregnant women and the elderly.

Core Subject Courses

Preventive Medicine, Infectious Diseases, Health Statistics, Epidemiology, Environmental Hygiene, Hygienic Laboratory Science, Basics of Hygiene Toxicology, Health Education, Nutrition and Food Hygiene, Sanitation Supervision and Sanitation Regulations, etc.

Employment Prospect

Primary medical and health institutions: preventive health care, disease prevention and control, maternal and child health care; health supervision institutions: health supervision, health management.

178 GERIATRIC HEALTH CARE AND MANAGEMENT

Program Name

Geriatric health care and management

Program Definition

Elderly health care and management mainly studies the basic knowledge and skills of elderly psychology and communication skills, elderly health care and nursing technology, nutrition and dietary health care, etc., and provides elderly care and elderly care services. For example: daily nursing and psychological comfort for the elderly, nutritional guidance and matching of meals for the elderly, care for common diseases of the elderly such as senile dementia, presbycusis, hypertension, etc.

Core Subject Courses

Introduction to the Physiology and Psychology of the Elderly, Communication Skills for the Elderly, Comprehensive Ability Assessment of the Elderly, Traditional Elderly Rehabilitation and Health Care, Commonly Used Elderly Rehabilitation Techniques, Commonly Used Elderly Care Techniques, Special Elderly Comprehensive Care Techniques , Nutrition Management and Elderly Care, Sports Health for the Elderly, etc.

Employment Prospect

Aged care institutions: Aged care services, elderly health care.

Program Name

Medical nutrition

Program Definition

Medical nutrition mainly studies basic knowledge and skills in basic medicine, food science, nutrition, food analysis and inspection, etc., and conducts nutrition consultation and guidance, dietary design and matching, etc. For example: evaluation and guidance of human nutritional status and dietary nutrition, matching of nutritious lunch for middle and primary school students, dietary nutrition guidance for pregnant women, children and patients with chronic diseases, detection and evaluation of food nutrients, etc.

Core Subject Courses

Summary of Clinical Medicine, Biochemistry, Food Chemistry, Food Microbiology, Pediatric Nutrition, Obstetrics and Gynecology Nutrition, Geriatric and Geriatric Nutrition, Applied Nutrition and Guidance , Food Chemistry and Analysis, Food Safety and Inspection, etc.

Employment Prospect

Nutrition service institutions: nutrition assessment, meal design, nutrition counseling, nutrition education.

Program Name

Ocular optometry

Program Definition

Ocular optometry mainly study the basic knowledge and skills of ophthalmology, optometry, eye refraction examination and optometry, and conduct optometry and glasses sales. For example: inspection of eye vision and eye refraction degree, design and matching of glasses, optometry and matching of contact lenses, sales and management of glasses, frames, eye drops, eye washes and other products.

Core Subject Courses

Basics of Ophthalmology, Optometry Theory and Methods, Ophthalmology, Ophthalmic Refractive Examination, Optical Optics, Introduction to Ophthalmology, Contact Lens Science, Optical Technology, Optometry Technology, Glasses Materials and Technology, etc.

Employment Prospect

Glasses companies: eye refraction examination, glasses customization, contact lens fitting, glasses sales.

181 ACCOUNTING INFORMATION MANAGEMENT

Program Name

Accounting information management

Program Definition

Accounting information management mainly studies the application and maintenance of finance, taxation, financial software and financial laws and regulations, including economic law, financial accounting, the application of financial software and tax calculation and declaration, etc. It is the management of various accounting data generated after processing, including the management of computerized accounting information. For example: collection and management of the company's assets, liabilities, owners' equity, revenue, expense, profit and other information.

Core Subject Courses

Basic Accounting, Primary Accounting Practice, Tax Planning Practice, Financial Management Practice, Accounting Information System, Enterprise Resource Planning ERP, etc.

Employment Prospect

Financial enterprises: accounting, financial management, information management, financial software maintenance, investment and wealth management, ERP implementers, audit assistants.

Program Name

International business

Program Definition

International Business mainly studies the basic theories of modern economics and the basic theories and business knowledge of international business and transnational operations. Students are required to be familiar with international trade practices and international business culture, and have professional skills such as import and export business, customs declaration, and inspection declaration. For example: the production of import and export documents such as invoices, bills of exchange, customs declarations, and inspection declarations, the development of overseas institutions, technology platforms and market platforms, the introduction of international projects and business negotiations, the signing and tracking of cooperation agreements, etc.

Core Subject Courses

Business Accounting, Economics, Marketing, E-commerce, International Trade Practice, International Exchange and Settlement, International Marketing, International Logistics and Customs Practice, Business Culture and Strategy, International Business Law, International Business Negotiation, etc.

Employment Prospect

Financial enterprises: international business operation and management, business event planning, international business management.

Program Name

Marketing

Program Definition

Marketing mainly studies the basic theories and knowledge of management, economics and modern marketing. Students will master the qualitative and quantitative analysis methods of marketing, be familiar with China's marketing guidelines, policies and regulations, and understand the conventions and rules of international marketing, and have the ability of marketing research and prediction, marketing planning and implementation, public relations and negotiation, etc.

Core Subject Courses

Marketing, Modern Advertising, Consumer Behavior, Market Research and Forecasting Technology, Marketing Planning, Public Relations, Business Negotiation and Sales Skills, Internet Marketing , E-commerce, Management, Western Economics, Accounting, Statistics, Financial Management, Economic Law and so on.

Employment Prospect

Industrial and commercial enterprises: marketing planning, marketing management, market research, advertising planning, economic management.

Program Name

E-Commerce

Program Definition

E-commerce mainly studies the basic theory and basic knowledge of computer information technology, marketing, international trade, management, law and modern logistics. Students will master the analysis methods and management techniques of e-commerce, have the ability to use the network to carry out business activities, and the ability to use computer information technology and modern logistics methods to improve enterprise management methods. For example: electronic payment and settlement, e-commerce system design, e-commerce case analysis; promotion of enterprise products and services, network marketing, advertising, etc.

Core Subject Courses

Marketing Practice, Promotion and Negotiation, Web Page Editing and Beautification, E-commerce Operation Practice, E-commerce Legal Basis, E-commerce Logistics and Distribution, E-commerce Website Design and Management, Online Shop Operation and Management, International Trade Practice, etc.

Employment Prospect

Technology enterprises: website construction and management, network maintenance, network marketing and research.

Program Name

Cross-border e-commerce

Program Definition

Cross-border e-commerce mainly studies relevant professional theoretical knowledge in the field of cross-border e-commerce, and cultivates high-quality technical talents with cross-border e-commerce network marketing, event planning, platform operation and other abilities, who are engaged in cross-border e-commerce platform operation and data analysis, visual marketing, online customer service and other work.

Core Subject Courses

Cross-border E-commerce Platform Practice, Cross-border E-commerce Data Analysis and Application, Cross-border E-commerce Marketing Planning, Cross-border E-commerce Visual Design, Cross-border E-commerce Customer Service, Cross-border E-commerce Procurement and Logistics Management, etc.

Employment Prospect

Cross-border e-commerce application enterprises: cross-border e-commerce platform operation, visual design, cross-border e-commerce network marketing and event planning, cross-border e-commerce customer service, international logistics and supply chain management, international market promotion, etc.

Program Name

Logistics engineering technology

Program Definition

Logistics engineering technology mainly studies the planning and design of logistics systems and the optimal allocation of resources, the planning and control of logistics operation processes, and enterprise logistics management, including logistics transportation technology, logistics warehousing technology, logistics handling technology, logistics packaging technology, and logistics circulation processing technology, supply chain management technology, etc. For example: Routine inspection and maintenance of logistics equipment, exploring how to effectively store goods in transit, etc.

Core Subject Courses

Introduction to Logistics Engineering, Logistics Software Design Fundamentals, Logistics Facilities and Equipment, Logistics Information Technology, Logistics System Simulation Technology, Warehousing Service and Operation, Distribution Management, Logistics Transportation Technology and Management etc.

Employment Prospect

Logistics enterprises: logistics equipment installation, operation, maintenance, development and management of warehousing technology, logistics equipment operation, logistics warehousing, logistics distribution, customer relationship management.

Program Name

Modern logistics management

Program Definition

Modern logistics management mainly studies the knowledge of modern, international logistics management and logistics engineering, as well as the related knowledge of management, economics, logistics technology and computer network. Students will master the theory, methods and basic skills of logistics management in the field of modern production, operation and circulation, and have a strong ability to plan and analyze and solve practical problems in logistics management. For example: operation, overhaul and maintenance of logistics equipment; maintenance of management information system; logistics work such as procurement, transportation, warehousing management, distribution, and information management of items.

Core Subject Courses

Warehouse Management, Logistics Cost Management, Logistics and Transportation Management, Logistics Enterprise Management, Logistics Distribution Management, Supply Chain Management, Third-Party Logistics and International Freight Forwarding, Logistics Program Planning and Design etc.

Employment Prospect

Logistics enterprises: logistics industry planning, logistics management, logistics operation planning, logistics business management, logistics system planning and maintenance, logistics information technology application.

Program Name

Port logistics management

Program Definition

Port logistics management mainly studies the basic principles and methods of port logistics management, as well as the basic knowledge and skills of port transportation, warehousing, distribution, etc., and carries out planning, management and logistics informatization operations in the field of port logistics. For example: warehousing and distribution management of port goods, quality management of port logistics, receiving and collection of port freight, etc.

Core Subject Courses

Logistics Basics, Purchasing Management Practice, Warehousing and Distribution Management, Container and Multimodal Transport, Port Logistics Operation Practice, International Freight Forwarding Practice, Customs Declaration Practice, Inspection Application Practice , Supply Chain Management, Maritime Law etc.

Employment Prospect

Port logistics, freight enterprises: logistics management, freight forwarding, customs declaration and inspection, warehousing management.

Program Name

Tourism management

Program Definition

Tourism management mainly studies the basic knowledge and skills of tourism management and tourism services, and conducts service and management of tour guides, restaurants, scenic spots, and travel agencies. For example: long-distance and short-distance tourism planning, tourism route design, tourism economic management of theme parks, tourism publicity planning, etc.

Core Subject Courses

Basic Tour Guide, Introduction to Tourism, China Tourism Geography, Travel Agency Planning and Adjustment Practice, Tourism Policies and Regulations, Tourism Marketing, Tourism Scenic Spot Service and Management, Tourism Economics , Tourism English, Modern Hotel Management, etc.

Employment Prospect

Tourism enterprises and institutions: hotels, scenic spots, travel agency services and management, tourism planning, tourism development and tourism marketing, exhibition services and management.

Program Name

Tour guide

Program Definition

Tour guide mainly study the basic knowledge and skills of tour guide business, tourism geography, etc., and conduct tourism service reception, management, scenic spot development, public relations marketing, etc. For example: to provide tourism activities arrangement, explanation, translation and other services for tour groups, to guide and explain in museums, nature reserves, etc., to arrange reception plans and organize tourists to visit and tour.

Core Subject Courses

Introduction to Tourism, Fundamentals of Tourism Economics, Fundamentals of Management, Tourism Geography, Tourism Resources and Development, Tourism Service Etiquette, Basic Knowledge of Tour Guides, Practice Guidelines for Tour Guides, Tourism Marketing, Tourism Public Relations, etc.

Employment Prospect

Tourism enterprises and institutions: tour guides, tourism program planning, tourism services, tourism resource development, tourism product marketing.

191 HOTEL MANAGEMENT AND DIGITAL OPERATION

Program Name

Hotel management and digital operation

Program Definition

Hotel management and digital operation mainly study the basic knowledge and skills of tourism management, hotel operation and management, and carry out hotel operation, management and service. For example: banquet design and menu production, work procedures and standard formulation in room sales, customer service, cleaning and maintenance, etc., planning, organization, command, control and coordination of various work links in the hotel.

Core Subject Courses

Management, Hotel Service Psychology, Hotel Service Etiquette, Basic Accounting, Hotel Human Resource Management, Tourism Marketing, Hotel Marketing and Planning, Modern Hotel Management, Hotel Room Management, Banquet Design and Management, etc.

Employment Prospect

Catering enterprises and institutions: hotel management, hotel marketing and planning, customer relationship management, marketing, human resource management, banquet design and management.

192 TEA ART AND TEA CULTURE

Program Name

Tea art and tea culture

Program Definition

Tea art and tea culture mainly studies the basic knowledge and technical knowledge of tea production, processing, tea art aesthetics and so on. Students will master modern tea marketing skills, tea brewing skills, tea tasting environment design, holding tea parties and other skills, and have the development and marketing capabilities of tea art and beverages, beverages and food, and teahouse management capabilities.

Core Subject Courses

Tea Art Aesthetics and Performing Arts, Chinese Tea Culture, Publicity and Etiquette, Tea Marketing and Trade, Consumer Psychology, Commodities and Marketing Strategies, Tea Art House Decoration and Design, Tea Biochemistry, Tea Standardized Processing Technology, Office Automation and Management, etc.

Employment Prospect

Food enterprises: tea artists, tea reviewers, marketing, food testing, tea production, management and sales.

Program Name

Cooking craft and nutrition

Program Definition

Cooking craft and nutrition mainly studies the basic knowledge and skills of modern cooking theory, nutritional analysis, catering management, etc., and conducts Chinese and Western cooking operations, nutritional analysis and nutritional matching, hotel management, etc. For example: Preliminary processing, cutting, seasoning, etc. of cooking materials according to the requirements of the dishes, cold plate platters, food carving design in Chinese food, and egg tarts in Western food.

Core Subject Courses

Culinary Technology, Culinary Nutrition, Culinary Chemistry, Culinary Hygiene, Food Additives, Food Processing and Storage, Food Materials Science, Food Hygiene and Safety, Chinese and Western Cooking Craft, Catering Operation and Management, etc.

Employment Prospect

Catering enterprises and institutions: Chinese and Western pastry making, food carving, cold dish platter, nutrition catering, nutrition consultation, nutrition supervision, catering technology management.

194 CHINESE AND WESTERN PASTRY CRAFTS

Program Name

Chinese and western pastry crafts

Program Definition

Chinese and western pastry crafts mainly studies the basic knowledge and skills of Chinese pastry making and Western pastry production, and conducts Chinese and Western pasta production, product development and management. For example: production of western pastries such as egg tarts and bread, processing and development of Chinese pastries such as almond cakes, research and development and sales of Chinese and western pastries, etc.

Core Subject Courses

Cognition and Identification of Cooking Materials, Food Nutrition and Pairing, Introduction to Chinese and Western Cooking, Chinese Pastry Technology and Production, Western Pastry Baking Technology and Production, Cake Decoration Technology and Production, Food Health and Safety, Catering Cost Accounting, Chinese Fast Food Chain Operation and Management, etc.

Employment Prospect

Chinese and Western pastry technology and catering enterprises and institutions: Western pastry technology and management, nutrition and catering, Chinese pastry production, research and development, production management, product sales.

Program Name

Product art design

Program Definition

Product art design mainly studies the basic knowledge of innovative design and product modeling design. It is a comprehensive discipline integrating engineering technology, humanities art and computer technology. Students need to have design ability, master computer-aided design technology, have independent modeling design ability and be competent for product modeling design. For example: design and make drawings for a product.

Core Subject Courses

Engineering Drawing and AUTOCAD Presentation, Industrial Design History and Design Introduction, Product Shape Creativity and Prediction, Model Modeling, Material and Application, Three-dimensional Shape Design Fundamentals, Applied Ergonomics , Product Design Performance, Computer Aided Design, Furniture Design, Public Environmental Facilities Design, Transportation Equipment Design, etc.

Employment Prospect

Design institutions: product display design, furniture design, creative design of product appearance, product planning and development, product design consulting.

Program Name

Apparel and Apparel Design

Program Definition

Apparel and Apparel Design mainly studies the basic theory of clothing art and related professional knowledge such as painting, computer design, plate making, and merchandising. Students will master the technology of plate making and plate pushing in the garment industry, be able to accurately analyze orders, be familiar with the craftsmanship, production process, quality control, and management of garment equipment, etc., and have strong capabilities in garment modeling, garment pattern design and garment refinement. For example: designing and sketching clothing.

Core Subject Courses

Color Composition, Three-dimensional Composition, Makeup and Modeling (color makeup), Three-dimensional Cutting, Fashion Design, Tie-dye, Clothing Aesthetics, Clothing Accessories, Clothing History and so on.

Employment Prospect

Apparel enterprises: clothing design and production, clothing board design, brand store clothing display and marketing; Image design companies: overall image design, makeup, styling.

Program Name

Interior art design

Program Definition

Interior art design mainly studies the basic knowledge of interior decoration design. Students will have the skills of interior space decoration design, interior decoration scheme design, construction, project management skills, architectural decoration plan and effect drawing performance skills, with space design ability as the core, having interior furnishings and soft decoration design ability and handicraft production ability. Students can draw renderings and construction drawings by hand. For example: the indoor home environment, indoor office environment, indoor comprehensive business environment design.

Core Subject Courses

Home Space Design, Office Space Design, Dining and Entertainment Space Design, Exhibition Design, Landscape Design, Furniture Design, Decorative Materials Technology and Budget, Construction Technology, Architectural Model Production, Architectural Decoration Drawing CAD, 3DS MAX, etc.

Employment Prospect

Decoration enterprises: interior design, construction drawing, effect drawing, decoration engineering construction worker, decoration engineering budget, decoration engineering supervision, decoration project management.

Program Name

Animation design

Program Definition

Animation design mainly studies the basic theory and related knowledge of animation design and production. Students are familiar with graphics and image production technology, have a certain art foundation, and are proficient in operating game, film and television animation related software, and have skills in digital art illustration, 2D and 3D game film and television animation design and production, and cartoon derivative development and design. For example: designing and painting characters in cartoons.

Core Subject Courses

Cartoon Painting, CG Illustration, Original Painting Design, Animation Drama, Animation Motion Law, Animation Modeling Design, Animation Scene Design, Computer Graphics Processing, Animation Post Synthesis , Animation Short Film Creation, Web Animation, etc.

Employment Prospect

Entertainment enterprises: digital art illustration, animation design and production, film and television advertising production, post-production synthesis, animation design, game original painting, game character modeling, concept design, animation special effects production.

199 CULTURAL CREATIVITY AND PLANNING

Program Name

Cultural creativity and planning

Program Definition

Cultural creativity and planning mainly studies the basic knowledge of aesthetics and cultural arts. Students will master the basic theory of creativity and planning, understand the market rules of the cultural industry, consumer psychology, laws and regulations of the cultural industry, master the development trend of new media, and have strong skills in cultural and creative product development and design, copywriting, and marketing and promotion. For example: planning and editing of media such as newspapers and magazines.

Core Subject Courses

Creativity and Planning of Cultural Industry, Cultural Marketing, Creativity and Planning of Advertising, Foundation of Creative Design, Internet Marketing of Cultural Products, Website Planning and Design, Cultural Project Management, Graphic Aided Design, Cultural and Creative Product Design and Development, Brand Planning and Management, Cultural and Creative Classic Case Analysis, etc.

Employment Prospect

Media enterprises: book editing, newspaper editing, book proofreading, text typesetting, advertising design, computer graphics, marketing, cultural creativity.

200 NETWORK NEWS AND COMMUNICATION

Program Name

Network news and communication

Program Definition

Network news and communication mainly studies the development law and related knowledge of network news communication. Students will systematically master network news communication skills, especially new media operation planning, public opinion monitoring, crisis public relations, event promotion and other new media design skills in print, video, webpage, H5, etc., will be engaged in news editing, network operation and promotion, media design and production related work.

Core Subject Courses

Mass Communication, News Interview and Writing, Speech and Eloquence, Audio and Video Editing Technology, Network News and Editing Practice, Photoshop Image Processing, Flash, Web Design, Office Automation, Chinese Quick Record, News Interview and Writing Training, Speech and Eloquence Training, Audio and Video Editing Training, Network News and Editing Practical Training, Office Automation Training , Internship and so on.

Employment Prospect

News and dissemination enterprises: website copywriters, network content editors, media public relations, media clerks, media assistants, etc.; National publicity management agencies, enterprises and institutions: website editor assistants, website reporter assistants, information auditors, and information input personnel.

201 DIGITAL MEDIA EQUIPMENT APPLICATION AND MANAGEMENT

Program Name

Digital media equipment application and management

Program Definition

Digital media equipment application and management mainly studies digital publishing, digital printing technology and process, so that students can have professional knowledge of digital media equipment, digital media processing ability and digital media equipment management practice skills. Students will be engaged in the use, daily maintenance, marketing and technical support of various common digital media equipment in the IT industry, digital publishing, digital printing, film and television animation, publishing and printing business management and other related work.

Core Subject Courses

Printing Color Control Technology, Computer Network Technology, Digital Publishing Media Preparation, Printing Image Processing, Digital Printing, Digital Prepress Equipment, Digital Multimedia Equipment, Computer Networking Technology, Digital Printing Press Use and Maintenance and so on.

Employment Prospect

Digital publishing companies: digital publishing, digital printing process technology, use of digital media equipment, routine maintenance, marketing and technical support.

202 FILM AND TELEVISION ANIMATION

Program Name

Film and television animation

Program Definition

Film and television animation mainly studies the basic knowledge and skills required by film and television animation creation, so that students can be engaged in animation, original painting, creative design, 3D animation production and other work in animation design, film and television production, game design and operation institutions, news media, schools and other units. For example: advertising periodicals, magazine illustrators, animation production.

Core Subject Courses

Fundamentals of Painting, Animation Movement Law, Computer Image Processing, Commercial Photography, DV Shooting, Audio-Visual Language, Examination and Sketching, Stop Motion Animation, Two-dimensional Animation Creation Training, Character Sculpture, 3D Animation Design, Film and Television Comprehensive Training, Game Model Design, Original Painting Design, 2D Animation Techniques, 3D Design Fundamentals, Film and Television Synthesis and Special Effects, etc.

Employment Prospect

Advertising film and television companies: program packaging and design, film and television production, story book drawing, original painting design, illustration design; animation game companies: 2D animation production, 3D art production, animation production, 3D film and television special effects production.

203 PHOTOGRAPHY AND VIDEOGRAPHY TECHNOLOGY

Program Name

Photography and videography technology

Program Definition

Photography and videography technology research the basic theory and basic skills of photography, television camera, enable students to master product photography, wedding photography, commercial photography, film and television advertising, film, film and television post-production capabilities, be able to engage in photography related jobs, such as commercial photographers, graphic designers, television cameraman, editing, etc. in film and television industry.

Core Subject Courses

Camera Principle and Use, Photography and Camera Composition, Photography and Camera Technology Application, Photographic Materials and Post-processing, Graphics and Image Processing Technology, Digital Image Production, Portrait photography, Advertising Photography, Art Photography, etc.

Employment Prospect

Media enterprises: photography, film and television production, graphic design, post-editing, wedding photography, etc.

204 MODERN EDUCATIONAL TECHNOLOGY

Program Name

Modern educational technology

Program Definition

Modern educational technology mainly studies the basic theoretical knowledge of computer science. Students will have solid teaching and application skills, and have the ability to design, develop, apply and manage teaching media and teaching systems, and be competent in computer science education and research in primary and secondary schools. For example: primary school information technology education and teaching, multimedia teaching courseware design and production, campus network establishment and maintenance and teaching equipment maintenance and management.

Core Subject Courses

C Language Programming, Microcomputer System Maintenance, Web Page Production, Animation Production, Image Processing, Photography Technology, Multimedia Production, Courseware Design, Video Editing, Computer Network Technology, Multimedia Technology, Computer Assembly and Maintenance, Database Principle and Technology.

Employment Prospect

Educational institutions: educational technology course teachers, educational technicians, information technology teaching, audio-visual education managers, design and production of teaching aids; Software enterprises: software design, development, testing personnel, website construction management, etc.

205 CHINESE

Program Name

Chinese

Program Definition

Chinese mainly studies the basic theoretical knowledge of linguistics and literature, including ancient Chinese, modern Chinese, introduction to literature, ancient Chinese literature, modern Chinese literature, contemporary Chinese literature, etc., so that students have a systematic knowledge and professional skills of Chinese, linguistics, and applied writing. For example: teaching the content of Chinese subjects to improve students' performance; tutoring students in composition, enabling them to participate in competitions, etc.

Core Subject Courses

Intermediate Chinese, Chinese Reading, Intensive Chinese Reading, Chinese Listening and Speaking, Translation Theory and Practice, Chinese Teaching Method, Chinese Practical Writing, Chinese and Foreign Literature, Modern Chinese, Ancient Chinese, Applied Writing, Secretary Studies, Documentary Studies, Public Relations Studies, etc.

Employment Prospect

Educational institutions: Chinese language teachers, composition tutoring, course consultation; cultural enterprises: editing, publicity, administration, secretarial writing.

Program Name

Sports training

Program Definition

Sports training mainly studies the basic theoretical knowledge related to competitive sports. Students will have sports-specific knowledge and practical ability, and need to have a healthy body, nutrition, and hygiene-related knowledge, and be able to independently organize and guide sports and fitness, sports entertainment, and leisure activities. For example: training and teaching football, basketball, volleyball, track and field, swimming, boxing, sanda, taekwondo, weightlifting, etc.

Core Subject Courses

Sports Training, Sports Anatomy, Exercise Physiology, Sports Psychology, Sports Health Science, Sports English, Computer, Health Massage, Sports Agent, Introduction to Sports, Special Improvement Course, etc.

Employment Prospect

Educational institutions: physical education teachers, sports nutrition, sports training; fitness institutions: fitness coaches, shaping guide, course consultants.

207 PHYSICAL HEALTH AND REHABILITATION

Program Name

Physical health and rehabilitation

Program Definition

Physical health and rehabilitation mainly studies the basic theoretical knowledge of sports human science, sports science, basic medicine and clinical medicine. Students will master basic theories of sports rehabilitation and health, as well as skills in traditional therapeutic methods such as acupuncture and massage, physiotherapy and health care, sports and health care, and sports judging. For example: sports rehabilitation, Chinese medicine health care physiotherapy, nutrition conditioning, scientific fitness guidance.

Core Subject Courses

Traditional Chinese medicine, hot spring health, medicated diet therapy, massage therapy, medical beauty practical technology, sports health care, fitness and bodybuilding, health yoga, swimming and rescue and so on.

Employment Prospect

Health care institutions: health evaluation and management, health care massage, sports health care, physiotherapy rehabilitation, physical therapy rehabilitation, fitness coach, bodybuilding guidance.

208 POLICE COMMAND AND TACTICS

Program Name

Police command and tactics

Program Definition

Police command and tactics mainly learn the basic knowledge of police tactics, police combat command, police arrest tactics, etc., and have the ability of police law enforcement, combat and assistance command, and tactical application. Examples of specific work content: formulation of arrest work plans, law enforcement and battle command, etc.

Core Subject Courses

Police Tactics, Police Battle Command, Weapons and Police Equipment and Support, Police Chart Recognition and Application, Police Arrest Tactics, Patrol scrutiny and Inventory Tactics, Transportation Control Techniques , Police Collaborative Tactics, Alarming and Police Command Automation, Police Tactical Strategy, etc.

Employment Prospect

Public security, police station: public security law enforcement, combat command, staff work.

209 CRIMINAL INVESTIGATION TECHNOLOGY

Program Name

Criminal investigation technology

Program Definition

Criminal investigation technology mainly studies the basic knowledge and skills of investigation information science, case investigation technology, criminal psychology and so on. As an important part of China's public security work, this discipline aims at discovering, exposing and confirming all kinds of criminal activities and assisting the police to solve cases smoothly. For example: DNA examination, voice print identification technology, odor identification technology, psychological determination (lie detection) technology, human appearance identification technology, detection communication technology and so on.

Core Subject Courses

General Introduction to Criminal Investigation, Investigative Information Science, Criminal Psychology, Investigative Measures and Strategies, Investigative Interrogation, Site Investigation, Criminal Case Investigation, Trace Inspection, Criminal Imaging Technology, Document Inspection, Prison Administration Practice, Prison Case Investigation Technology, Unarmed Defense and Control, Police Equipment and Weapon Use, Police Tactics, Police Vehicle Driving and Criminal Law, Civil Law, Administrative Law, etc.

Employment Prospect

Public security organs: work related to technical investigation.

210 SMART ELDERLY HEALTH CARE SERVICE AND MANAGEMENT

Program Name

Smart elderly health care service and management

Program Definition

Smart elderly health care service and management mainly studies basic knowledge and operational skills in health care, health promotion, institutional operation and management. Students are familiar with the policies and regulations of the national old-age care industry, understand the cutting-edge knowledge and application prospects of the cause of old-age care, master the knowledge of modern rehabilitation therapy and traditional Chinese medicine rehabilitation, and have the ability to engage in elderly social work, elderly care and healthcare, and elderly service management. For example: planning the life of the elderly, organizing club activities.

Core Subject Courses

Introduction to Sociology, Social Psychology, Introduction to Gerontology, Geriatrics, Geriatric Sociology, Geriatric Theory and Practice, Geriatric Nutrition and Diet, Geriatric Industry Management, Aged Care, etc.


Employment Prospect


Aged care institutions: senior business management, senior industrial management, senior social activities, senior university teaching and management, senior psychological analysis and consultation, senior nutrition analysis and conditioning, senior living planning development and design.


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