

Curriculum Map of Technology Application and Human Resource Development

Required courses in NTNU (28 credits)

Language courses: Chinese (4 credits), English (6 credits).
General education program (18 credits)

Required courses (17 credits)

<u>Introduction to Computer Science</u>	3/3	<u>Image Processing</u>	3/3
<u>Computer Multimedia</u>	3/3	<u>Capstone Projects (I)</u>	1/2
<u>Basic Design</u>	3/3	<u>Capstone Projects (II)</u>	1/2
<u>Principle of Electrical Technology</u>	3/3		

Required courses (24 credits)

Learning and Technology Track		Design and Technology Track	
<u>Design & Production for Multimedia Instructional Materials</u>	3/3	<u>Mechanical Technology</u>	3/4
<u>Introduction to E-Learning</u>	3/3	<u>Woodworking Technology</u>	3/4
<u>Methods and Strategies of E-Learning</u>	3/3	<u>Graphics</u>	3/4
<u>Introduction to the Internet</u>	3/3	<u>Manufacturing Technology</u>	3/3
<u>Computer Animation</u>	3/3	<u>Industrial Safety and Health</u>	3/3
<u>Programming Language</u>	3/3	<u>Computer-Aided Drafting</u>	3/3
<u>Data Structure</u>	3/3	<u>Human Factors Engineering</u>	3/3
<u>System Analysis and Design</u>	3/3	<u>Products Design</u>	3/3

Selective courses (at least 24 credits)

Learning and Technology Track		Design and Technology Track	
<u>Introduction to Human Resource Development</u>	3/3	<u>Computer-Aided Design and Manufacturing</u>	3/3
<u>Assessment of Training Needs and Training Effectiveness</u>	3/3	<u>Plastic Product Design and Manufacture</u>	3/3
<u>Operating systems</u>	3/3	<u>Metal Product Design and Manufacture</u>	3/3
<u>Computer Architecture</u>	3/3	<u>Wooden Product Design and Manufacture</u>	3/3
<u>Database System</u>	3/3	<u>Electronic Product Design and Manufacture</u>	3/3
<u>Computer Network Theorem and Implementation</u>	3/3	<u>Principles of Shaping</u>	3/3
<u>Digital Game Design</u>	3/3	<u>Color Theory</u>	3/3
<u>Internet Programming</u>	3/3	<u>Model Making</u>	3/3
<u>Virtual Reality</u>	3/3	<u>Sketch and Presentation Technique for Design</u>	3/3
<u>Mobile Learning and Technology</u>	3/3	<u>Design for Displays and Exhibitions</u>	3/3
		<u>Analysis and Planning of Products</u>	3/3

Other courses

<u>Construction Technology</u>	3/3	<u>Statistics</u>	3/3
<u>Introduction to Communication Technology</u>	3/3	<u>Management</u>	3/3
<u>Introduction to Transportation Technology</u>	3/3	<u>Professional Internship</u>	2/4
<u>Energy and Power</u>	3/3	<u>Development of Creativity</u>	3/3
<u>Planning & Management of Technology Education Laboratories</u>	2/2	<u>Introduction to Natural Science</u>	3/3
<u>Introduction to Industrial Technology Education</u>	2/2		

1. Complete 128 credits: including 69 required courses (28+17+24), 24 selective courses.
2. Every student should take at least 24 courses from his/her track.