School of System Design and Intelligent Manufacturing

Program of Industrial Design for International Students (2023)

I. Introduction

The bachelor's degree program in Industrial Design (ID) offered by Southern University of Science and Technology (SUSTech) serves Shenzhen, and cultivates high-level and international innovative industrial design leaders nationwide to meet the demand for high-end innovative and creative design talents in the Guangdong-Hong Kong-Macao Greater Bay Area, help improve the urban cultural soft power and industrial core competitiveness, promote the high-quality development of the innovative industrial design industry, and build an internationally leading cultural innovation and creative city.

This program makes full use of the characteristics of SUSTech and the advantages of the new engineering education (NEE) model developed by the School of System Design and Intelligent Manufacturing (SDIM), to cultivate high-level, international, and wide-ranging industrial design professionals. SDIM emphasizes student-centered, project-based teaching and learning, multi-disciplinary integration, learning by doing, and focuses on cultivating students' self-learning ability, interdisciplinary knowledge application ability and teamwork ability. Guided by this, the constructions of the curriculum, the professional team for teaching, the professional practice teaching conditions, and the professional teaching management system are carried out to promote the coordinated development of professional construction, fully utilize social resources to improve students' practical ability.

The ID program includes the study of product design theory and method, design thinking and system thinking, art and aesthetics, materials and manufacturing process, intelligent manufacturing and advanced design technology and tools, human-computer engineering, interaction and experience design, computing design and design methods. The content covers the training of students' common design thinking in different industries after taking office in the future, as well as the training of corresponding design technologies for different industries. Learning and creation will explore design themes including but not limited to: life aesthetics and culture, smart home, health

care, smart equipment and fashion, etc. Academic subject areas: Mechanical.

Program code: 080205

II. Objectives and Learning Outcomes

1. Objectives

The ID program is oriented towards the future development of innovative industrial design,

with a focus on national strategic development in intelligent manufacturing and other fields. It aims

to cultivate a solid theoretical foundation of industrial design, along with distinctive professional

knowledge encompassing an international vision, design thinking ability, and systems thinking

ability. The program aims to develop multidisciplinary knowledge application ability, user and

market research skills, proficiency in product development processes and methods, familiarity with

project management and system operation, a sense of social responsibility, teamwork spirit, and the

ability to engage in innovative design of industrial products in enterprises and institutions.

Additionally, graduates will be equipped to undertake professional design in design institutions,

scientific research units, and related service and business model design fields. They will also possess

expertise in human-computer interaction design, sustainable development design, and other areas

related to the development, research, planning, education, and management of composite industrial

design.

2. Learning Outcomes

Graduates from this program will be able to systematically master the principles, procedures,

modern design expression methods, forms, structures, and material selection in industrial design.

They will possess the ability to use professional knowledge and tools to address the relationship

between industrial design and the environment, users, market, functions, shapes, colors, structures,

materials, and processes. Graduates will be capable of engaging in various product development

and design endeavors, with strong practical abilities in high-end equipment, intelligent products and

interaction, healthcare, cultural creativity, and social innovation.

Upon completion of the program, graduates should possess the following knowledge and

abilities:

(1) Demonstrate strong professional ethics in ID, maintaining a rigorous and realistic scientific

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attitude, a firm pursuit of innovation and excellence, a strong sense of patriotism and professionalism, social responsibility, and rich humanistic and artistic literacy.

- (2) Possess the necessary knowledge of natural and social sciences relevant to ID, and understand the corresponding technical and social development trends.
- (3) Systematically master a broad range of basic theoretical knowledge, including mathematics, physics, machinery, automation, electronics, computers, etc., as well as professional knowledge in ID. This primarily includes design thinking and engineering, fundamentals of ID, product design visualization, industrial design history, ergonomics, advanced material technology, computer simulation and design, aesthetics and design psychology, system design and management, etc.
- (4) Possess a well-rounded engineering knowledge base and disciplinary expertise.
- (5) Demonstrate strong design performance skills, hands-on ability, aesthetic appreciation, creativity, and proficiency in computer, Internet, multimedia, and foreign language applications.
- (6) Possess the ability to analyze, identify, and solve problems based on an understanding of societal and consumer needs. Graduates should be able to participate in the planning, design, operation, and maintenance of the entire life cycle of products or services.
- (7) Possess strong information acquisition and career development learning abilities, and be aware of the development trends and theoretical frontiers in ID.
- (8) Possess effective design and management abilities, interdisciplinary communication skills, teamwork abilities, and the capacity to handle crises and emergencies.
- (9) Possess a certain level of international vision and preliminary abilities to communicate, compete, and cooperate in a cross-cultural environment.

III. Study Length, Degree, and Graduation Requirements

- 1. Study length: 4 years.
- 2. Degree conferred: Students who have completed and meet the degree requirements of the undergraduate program will be awarded a bachelor's degree in Engineering.
- 3. The minimum credit requirement for graduation: 164 credits. The specific requirements are as follows.

	Module	Category	Minimum Credit Requirement
	Chinese Language and Culture Module	Chinese Language and Culture	16
	Arts and Physical Education	Physical Education	4
	Module	Arts	2
		Computer Programming	3
	Competence Development Module	Writing	2
	Module	Foreign Languages	14
		Humanities	
	Humanities and Social Sciences Module	Social Sciences	6
General Education	Sciences Wodale	Chinese Studies	2
Courses		Mathematics	
	Mathematics and Natural Sciences Module	Mathematics and Natural Physics	
		Chemistry	3
		Geoscience + Life science	3
	GE to Majors Bridging Module	Introduction to Majors	3
		Major Foundational Courses	24
	Major Paguirad Courses	Major Core Courses	30
Major Courses	Major Required Courses	Practice-based Learning (Undergraduate Thesis, Internships, Research projects, etc.)	15
	Major Elective Courses	Major Elective Courses	15
	Total		164

Note: please see the General Education Requirement for more details on Chinese Language and Culture Module, Arts and Physical Education Module, Competence Development Module (Foreign Languages & Writing), Humanities and Social Sciences Module, and GE to Majors Bridging Module.

${\bf IV.\ Course\ Requirements\ for\ the\ Mathematics\ and\ Natural\ Sciences\ Module\ and\ }$

Computer Programming

Course Category	Course Code	Course Name	Credits	Terms	Prerequisit e	Dept.	
	MA117	Calculus I	4	1 Fall	None	D	
Mathematics	MA127	Calculus II	4	1Spring	Calculus I	Department of	
Wathematics	MA113	Linear Algebra	4	1 Spring &Fall	None	Mathematics	
	PHY105	College Physics I	4	1 Fall	None		
Physics	PHY106	College Physics II	4	1 Spring	General Physics I	Department of Physics	
	PHY104B	Experiments of Fundamental Physics	2	2 1-2 Spring & None		or r nysics	
Chemistry	CH105	Chemistry: The Central Science	3	1-2 Spring &Fall	None	Department of Chemistry	
Biology	BIO102B	Introduction to Life Science	3	1-2 Spring &Fall	None	Department of Biology	
Computer Programming	CS112	Introduction to Python Programming	3	1-2 Spring &Fall	None	Department of Computer Science and Engineering	

Note 1: Calculus I and II can be replaced by Mathematical Analysis I and II.

Note 2: Linear Algebra can be replaced by Advanced Linear Algebra I.

Note 3: College Physics I and II can be replaced by General Physics I and II.

Note 4: Chemistry: The Central Science can be replaced by General Chemistry.

Note 5: Introduction to life sciences can be replaced by Principles of Biology.

Note 6: Introduction to Python Programming can be replaced by Introduction to Computer Programming.

Note 7: The above alternative courses are also applicable to the "Prerequisites for Major Declaration".

Note 8: The above alternative courses also apply to the prerequisite course requirements.

V. Prerequisites for Major Declaration

Major Declaration Time	Course Code	Course Name	Prerequisite
	MA117	Calculus I	None
Declare major at	MA127	Calculus II	Calculus I
the end of the	MA113	Linear Algebra	None
first academic	PHY105	College Physics I	None
year	PHY106	College Physics II	General Physics I
	CS112	Introduction to Python Programming	None
	MA117	Calculus I	None
	MA127	Calculus II	Calculus I
	MA113	Linear Algebra	None
Declare major at	PHY105	College Physics I	None
the end of the	PHY106	College Physics II	General Physics I
second academic	CS112	Introduction to Python Programming	None
year	PHY104B	Experiments of Fundamental Physics	None
	CH105	Chemistry: The Central Science	None
	BIO102B	Introduction to Life Science	None
	SDM114	Product Design Visualization	None

Note:

- 1. If the number of students entering a major at the end of the first academic year in the department is greater than or equal to the total number of the teaching-research faculty (PI)*2*60%, all majors in the department may implement the prerequisites for major declaration at the end of the second academic year.
- 2. If the number of students entering a major at the end of the first academic year in the department is less than the total number of the teaching-research faculty (PI)*2*60%, all majors in the department do not implement the prerequisites for major declaration at the end of the second academic year.
- 3. Suppose the number of students applying for a major at the end of the first academic year exceeds four times the total number of the teaching-research faculty (PI), then the department may select students according to predetermined rules. In principle, the rules set by the department shall examine the students' suitability for the major and not based on weighted GPA (Specific rules shall be set by the department and announced in advance).
- 4. For departments that do not implement prerequisites for major declaration at end of the second academic year, if the cumulative number of students applying for a major at the end of the second academic year and the number of students who have entered a major at the end of the first academic year exceeds four times the total number of the teaching-research faculty (PI), the department may select students according to predetermined rules. In principle, the rules set by the department shall examine the students' suitability for the major and not based on weighted GPA (Specific rules shall be set by the department and announced in advance).

VI: Major Course Arrangement

Table 1: Major Required Courses

Program of Industrial Design

Course Category	Course Code	Course Name	Credits	Practice- based Learning Credits	Terms	Prerequisite	Dept.
	SDM216	CAD:3D Modeling and Programming	3	3	2 Fall	None	School of System Design and Intelligent Manufacturing
	SDM241	Electronic System Design	3	1	2 Spring	College Physics II	School of System Design and Intelligent Manufacturing
×	SDM262	Fundamentals of Materials Engineering	3	1	2 Spring	None	School of System Design and Intelligent Manufacturing
Major Foundational Courses	SDM275	Rapid Prototyping for Product Development	3	1	2 Spring	None	School of System Design and Intelligent Manufacturing
tional Co	Fundamenta SDM214 of Industria Design	Fundamentals of Industrial Design	3	1	2 Fall	None	School of System Design and Intelligent Manufacturing
ourses	SDM213	Industrial Design History	3	1	2 Fall	None	School of System Design and Intelligent Manufacturing
	SDM283	Mechanics for Design	3	1	2 Fall	Calculus II	School of System Design and Intelligent Manufacturing
	SDM322	Product Quality Management	3	1	3 Fall	None	School of System Design and Intelligent Manufacturing
	7	Γotal	24	10			
	SDM212	Design Thinking and Engineering	3	1	2 Spring	None	School of System Design and Intelligent Manufacturing
	SDM232	Mechanical Design and Manufacturing I	3	1	2 Spring	None	School of System Design and Intelligent Manufacturing
Major (SDM218	Design Psychology and Aesthetics	3	1	2 Fall	None	School of System Design and Intelligent Manufacturing
Major Core Courses	SDM224	Fundamentals of System Engineering	3	1	2 Fall	None	School of System Design and Intelligent Manufacturing
	SDM352	Computer Simulation and Design	3	1	3 Spring	None	School of System Design and Intelligent Manufacturing
	SDM311	Thematic Product Design	3	1	3 Spring	CAD:3D Modeling and Programmin g,Product Design	School of System Design and Intelligent Manufacturing

						Visualization	
	SDM314	Fundamentals of Control Engineering and Design	3	1	3 Spring	Mechanics for Design	School of System Design and Intelligent Manufacturing
	SDM354	Human Factors Engineering	3	1	3 Spring	Introduction to Python Programmin g	School of System Design and Intelligent Manufacturing
	SDM313	Design for Intelligent Manufacturing	3	1	3 Fall	None	School of System Design and Intelligent Manufacturing
	SDM315	Computational Design	3	1	3 Fall	Computer Simulation and Design	School of System Design and Intelligent Manufacturing
	1	Total	30	10			
Pract Ct	SDM406	Innovation Design Practice	3	3	3 Summer & 4 Fall	None	School of System Design and Intelligent Manufacturing
Practice-based Courses	SDM491	Capstone	12	12	3 Spring	None	School of System Design and Intelligent Manufacturing
_	T	Total	15	15			
_	Total		69	35		-	

Table 2: Major Elective Courses

Program of Industrial Design

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Course Code	Course Name	Credits	Practice- based Learning Credits	Terms	Prerequisite	Dept.
SDM102	Integrative System Design	3	3	1 Summer	None	School of System Design and Intelligent Manufacturing
SDM116	Experience Design	3	1	1 Spring	None	School of System Design and Intelligent Manufacturing
SDM316	Product Function and Mechanism	3	1	3 Fall	None	School of System Design and Intelligent Manufacturing
SDM318	Interactive Media Design	3	1	3 Fall	None	School of System Design and Intelligent Manufacturing
SDM392	Virtual Product Design and Analysis	3	1	3 Fall	None	School of System Design and Intelligent Manufacturing
SDM394	Information Design	3	1	3 Fall	None	School of System Design and Intelligent Manufacturing
SDM396	Product Innovation Design	3	1	3 Fall	Product Design	School of System Design and

					Visualization	Intelligent
						Manufacturing
					Product	School of System
SDM391	Interactive Design	3	1	3 Spring	Design	Design and
				1 0	Visualization	Intelligent Manufacturing
						Manufacturing School of System
					Product	Design and
SDM395	Product System Design	3	1	3 Spring	Design	Intelligent
					Visualization	Manufacturing
					Product	School of System
SDM317	Product Packaging and	3	1	3 Spring	Design	Design and
551/1017	Advertising Design				Visualization	Intelligent
						Manufacturing School of System
	Product Branding and				Product	Design and
SDM319	Entrepreneurship	3	1	3 Spring	Design	Intelligent
	Ziniepreneuromp				Visualization	Manufacturing
						School of System
SDM393	New Product Development	3	1	3 Spring	None	Design and
SDIVIS	and Design	5	_	3 Spring	Trone	Intelligent
						Manufacturing
	Wearable Technology and				Design	School of System Design and
SDM412	Design	3	1	3-4 Springk	Thinking and	Intelligent
	D 60.gn				Engineering	Manufacturing
					Had got 100	-
					credits and	
	Industrial Design Professional Practices				had finished	School of System
SDM414		3	1	3-4 Fall	at least 2 design	Design and Intelligent
					stream major	Manufacturing Manufacturing
					elective	Manaractaring
					courses.	
					Mechanical	Department of
ME313	Product Design Practice	2	2	3 Spring &	Design and	Mechanical and
				Summer	Manufacturin g I	Energy Engineering
					Product	Department of
ME405	Innovative Design Theory	3	1	4 Fall	Design	Mechanical and
	and Practice				Practice	Energy Engineering
	are the Design stream major	47	19			
ele	ective courses.	.,	17		25 1 1 1	
	Intelligent Manufacturing				Mechanical	School of System
SDM372	Intelligent Manufacturing and Equipment	3	1	3 Fall	Design and Manufacturin	Design and Intelligent
	and Equipment				g I	Manufacturing
						School of System
SDM371	Big Data ²	3	1	3 Fall	Linear	Design and
SDNIS/1	Dig Data	3	1	3 Tan	Algebra	Intelligent
					Total 1 C	Manufacturing
					Introduction to Python	School of System Design and
					Programmin	Intelligent
SDM376	Introduction to Internet of	3	1	3 Fall	g,	Manufacturing
	Things ³				Calculus II,	
					Linear	
					Algebra	
	Intelligent Sensing				Introduction	School of System
SDM5002	Systems in Mobile Robots	3	1	3 Fall	to Python Programmin	Design and Intelligent
	4				g,	Manufacturing
L	1		I	<u> </u>	δ,	1,141141401411115

					Fundamental of Electric Circuits	
SDM374	Machine Learning System Design ¹	3	1	3 Spring	Linear Algebra	School of System Design and Intelligent Manufacturing
SDM378	Computer Vision and Application ⁵	3	1	3 Spring	Introduction to Python Programmin g, Calculus II, Linear Algebra	School of System Design and Intelligent Manufacturing
SDM375	Intelligent Robot Design ⁶	3	1	3 Spring	Introduction to Python Programmin	School of System Design and Intelligent Manufacturing
SDM373	Sensor and Intelligent Detection Technology	3	1	3 Spring	None	School of System Design and Intelligent Manufacturing
SDM472	Additive Manufacturing Technology	3	1	4 Fall	Mechanical Design and Manufacturin g I	School of System Design and Intelligent Manufacturing
SDM474	Advanced Design- Manufacture Integrated Technique	3	1	3-4 Fall	Fundamental s of materials Engineering, Mechanics for Design	School of System Design and Intelligent Manufacturing
SDM476	Foundation of AI-NOT	3	0	3-4 Fall	None	School of System Design and Intelligent Manufacturing
SDM471	AR / VR and Its Application	3	1	4 Spring	Introduction to Python Programmin	School of System Design and Intelligent Manufacturing
	nrses are the intelligent ng stream major elective courses.	36	11			
MA212	Probability and Statistics	3	0	2 Fall	Calculus II	Department of Mathematics
SDM274	AI and Machine Learning 7	3	0	2 Fall	Calculus II Linear Algebra	School of System Design and Intelligent Manufacturing
CS203	Data Structures and Algorithm Analysis	3	1	2 Fall	Introduction to Computer Programmin g	Department of Computer Science and Engineering
CS303	Artificial Intelligence	3	1	3 Fall	Introduction to Computer Programmin g ,Data Structures and Algorithm	Department of Computer Science and Engineering

					Analysis , Probability and Statistics	
CS324	Deep Learning	3	1	3 Spring	Artificial Intelligence	Department of Computer Science and Engineering
	re the Artificial Intelligence ijor elective courses.	18	4			
ME336	Collaborative Robot Learning	3	1	3 Spring	Robot Modeling and Control	Department of Mechanical and Energy Engineering
ME331	Robot Modeling and Control	3	0	3 Fall	Engineering Mechanics I Statics and Dynamics	Department of Mechanical and Energy Engineering
ME322	Robotic Actuation System	3	1	3 Fall	Calculus II	Department of Mechanical and Energy Engineering
SDM5008	Advanced Robot Control	3	1	4 Fall	System Modeling and Simulation, Feedback Control Theory	School of System Design and Intelligent Manufacturing
ME336	Collaborative Robot Learning	3	1	3 Spring	Robot Modeling and Control	Department of Mechanical and Energy Engineering
Above courses are the Robotic stream major elective courses.		12	3			
	Total	113	37			

Note:

- [1] SDM374 Machine Learning System Design can be used as an elective course for Artificial Intelligence stream at the same time.
- [2] SDM371 Big Data can be used as an elective course for Artificial Intelligence stream at the same time.
- [3] SDM376 Introduction to Internet of Things can be replaced by course CS314 Internet of Things.
- [4] SDM5002 Intelligent Sensing Systems in Mobile Robots can be used as an elective course for Robotic stream at the same time.
- [5] SDM378 Computer Vision and Application can be used as an elective course for Robotic stream and Artificial Intelligence stream at the same time.
- [6] SDM375 Intelligent Robot Design can be used as an elective course for Robotic stream at the same time.
- [7] SDM274 AI and Machine Learning can be used as an elective course for Robotic stream at the same time.

Table 3: Overview of Practice-based Learning

Program of Industrial Design

Course Code	Course Name	Credits	Practice- based Learning Credits	Terms	Prerequisite	Dept.
SDM102	Integrative System Design	3	3	1 Summer	None	School of System Design and Intelligent Manufacturing
SDM114	Product Design Visualization	3	1	1 Spring & Fall	None	School of System Design and Intelligent Manufacturing
SDM116	Experience Design	3	1	1 Spring	None	School of System Design and Intelligent Manufacturing
SDM216	CAD:3D Modeling and Programming	3	3	2 Fall	None	School of System Design and Intelligent Manufacturing
CS203	Data Structures and Algorithm Analysis	3	1	2 Fall	Introduction to Computer Programming	Department of Computer Science and Engineering
CS203B	Data Structures and Algorithm Analysis B	3	1	2 Fall	Introduction to Computer Programming	Department of Computer Science and Engineering
SDM283	Mechanics for Design	3	1	2 Fall	Calculus II	School of System Design and Intelligent Manufacturing
SDM218	Design Psychology and Aesthetics	3	1	2 Fall	None	School of System Design and Intelligent Manufacturing
SDM213	Industrial Design History	3	1	2 Fall	None	School of System Design and Intelligent Manufacturing
SDM214	Fundamentals of Industrial Design	3	1	2 Fall	None	School of System Design and Intelligent Manufacturing
SDM224	Fundamentals of System Engineering	3	1	2 Fall	None	School of System Design and Intelligent Manufacturing
SDM212	Design Thinking and Engineering	3	1	2 Spring	None	School of System Design and Intelligent Manufacturing
SDM232	Mechanical Design and Manufacturing I	3	1	2 Spring	None	School of System Design and Intelligent Manufacturing
SDM241	Electronic System	3	1	2 Spring	College	School of

	ъ.	1		1	DI 1 77	g
	Design			1	Physics II	System Design
						and Intelligent
						Manufacturing
	Fundamentals of					School of
SDM262	Materials	3	1	2 Spring	None	System Design
SDW1202		3	1	2 Spring	None	and Intelligent
	Engineering					Manufacturing
						School of
	Rapid Prototyping					System Design
SDM275	for Product	3	1	2 Spring	None	and Intelligent
	Development					Manufacturing
						School of
	Interactive Media					
SDM318		3	1	3 Fall	None	System Design
	Design					and Intelligent
						Manufacturing
	Virtual Product					School of
SDM392	Design and	3	1	3 Fall	None	System Design
55111372	Analysis	5	1	31411	Trone	and Intelligent
	Allarysis					Manufacturing
					D 1 4	School of
GD1 120.6	Product	2	4	2 5 11	Product	System Design
SDM396	Innovation Design	3	1	3 Fall	Design	and Intelligent
	8				Visualization	Manufacturing
						School of
	Product Function					System Design
SDM316	and Mechanism	3	1	3 Fall	None	and Intelligent
	and Mechanism					Manufacturing
	- 0					School of
SDM394	Information	3	1	3 Fall	None	System Design
~	Design					and Intelligent
						Manufacturing
	Intelligent				Mechanical	School of
SDM372		3	1	3 Fall	Design and	System Design
SDM372	Manufacturing	3	1	3 Fall	Manufacturing	and Intelligent
	and Equipment				I	Manufacturing
					Introduction to	School of
					Python	System Design
	Introduction to				Programming,	and Intelligent
SDM376	Internet of Things	3	1	3 Fall	Calculus II.	Manufacturing
	internet of Timigs				Linear	Manufacturing
					Algebra	C 1 1 C
						School of
SDM371	Big Data	3	1	3 Fall	Linear	System Design
521.1571	218 2	J	-	5 1 411	Algebra	and Intelligent
						Manufacturing
	Dogian for					School of
GDM212	Design for	2	1	2 F II	NT	System Design
SDM313	Intelligent	3	1	3 Fall	None	and Intelligent
	Manufacturing					Manufacturing
						School of
	Product Quality					System Design
SDM322	Management	3	1	3 Fall	None	
	Management					and Intelligent
				1	T . 1	Manufacturing
					Introduction to	
	Intelligent				Python	System Design
SDM5002	Sensing Systems	3	1	3 Fall	Programming,	and Intelligent
501113002	in Mobile Robots	J	1	3 Tan	Fundamental	Manufacturing
	m Moone Robots			1	of Electric	
					Circuits	
					Introduction to	Department of
CS303	Artificial	3	1	3 Fall	Computer	Computer
25505	Intelligence	5	•	3 1 411	_	_
	-			L	Programming	Science and

					,Data	Engineering
					Structures and	
					Algorithm	
					Analysis	
					, Probability	
					and Statistics	
						Department of
CS324	Deep Learning	3	1	3 Spring	Artificial	Computer
C3324	Deep Learning	3	1	3 Spring	Intelligence	Science and
						Engineering
	Commutational				Computer	School of
SDM315	Computational Design	3	1	3 Fall	Simulation	System Design and Intelligent
	Design				and Design	Manufacturing
	Fundamentals of					School of
SDM314	Control	3	1	3Spring	Mechanics for	2
SDWS14	Engineering and	3	1	Sopring	Design	and Intelligent
	Design					Manufacturing
	Human Factors				Introduction to	School of System Design
SDM354	Engineering	3	1	3 Spring	Python	and Intelligent
					Programming	Manufacturing
	Computer					Computer
SDM352	Simulation and	3	1	3 Spring	None	Simulation and
	Design					Design
	Machine Learning				Linear	School of System Design
SDM374	System Design	3	1	3 Spring	Algebra	and Intelligent
					g	Manufacturing
					Introduction to	School of
					Python	System Design
SDM378	Computer Vision	3	1	3 Spring	Programming, Calculus II,	and Intelligent Manufacturing
	and Application				Linear	Manufacturing
					Algebra	
					Product	School of
SDM391	Interactive Design	3	1	3 Spring	Design	System Design
					Visualization	and Intelligent Manufacturing
						School of
CDM275	Intelligent Robot	2	4	2.5	Introduction to	System Design
SDM375	Design	3	1	3 Spring	Python Programming	and Intelligent
					Tiogramming	Manufacturing
	Sensor and					School of
SDM373	Intelligent Detection	3	1	3 Spring	None	System Design and Intelligent
	Technology					Manufacturing
					D J ,	School of
SDM395	Product System	3	1	3 Spring	Product Design	System Design
SDWS73	Design	3	1	3 Spring	Visualization	and Intelligent
	Decduset					Manufacturing School of
	Product Packaging and				Product	School of System Design
SDM317	Advertising	3	1	3 Spring	Design	and Intelligent
	Design				Visualization	Manufacturing
					Product	School of
SDM319	Product Branding and Entrepreneurship	3	1	3 Spring	Design	System Design
		3			Visualization	and Intelligent Manufacturing
ME313		2	2	3 Spring &	Mechanical	
MESIS	Product Design		Δ	3 Spring &	iviechanical	Department of

	Practice			Summer	Design and	Mechanical and
	Tractice			Summer	Manufacturing	
					I	Engineering
						Department of
	Collaborative				Robot	Mechanical and
ME336	Robot Learning	3	1	3 Spring	Modeling	Energy
					and Control	Engineering
						School of
	New Product					System Design
SDM393	Development and	3	1	3 Spring	None	and Intelligent
	Design					Manufacturing
					ъ.	School of
GDM412	Wearable	2	1	2.4 5.11	Design	System Design
SDM412	Technology and	3	1	3-4 Fall	Thinking and	and Intelligent
	Design				Engineering	Manufacturing
					Had got 100	
SDM414	Industrial Design Professional Practices	3	1	3-4 Fall	credits and	School of
					had finished at	System Design
					least 2 design	and Intelligent
					stream major	Manufacturing
					elective	
	A 1 1				courses.	0.1.1.6
SDM474	Advanced Design- Manufacture Integrated Technique	3	1	3-4 Fall	Fundamentals of materials	School of System Design
					Engineering,	and Intelligent
					Mechanics for	Manufacturing
					Design	Manaractaring
					Mechanical	School of
CDM472	Additive	2	1	4 5 11	Design and	System Design
SDM472	Manufacturing Technology	3	1	4 Fall	Manufacturing	and Intelligent
					I	Manufacturing
ME405	Innovative Design Theory and	3	1	4 Fall	Product	Department of
					Design	Mechanical and
1412103	Practice	3	•	l Tun	Practice	Energy
						Engineering
					System	
SDM5008	Advanced Robot Control	3	1	4 Fall	Modeling and	School of
					Simulation,	System Design
					Feedback	and Intelligent
					Control	Manufacturing
					Theory	Wandidetuing
	AD /IID 11				Introduction to	School of
SDM471	AR / VR and Its	3	1	4 Spring	Python	System Design
	Application				Programming	and Intelligent
					- 8	Manufacturing School of
SDM406	Innovation Design Practice	3	3	3 Summer & 4 Fall	None	School of
						System Design and Intelligent
						Manufacturing
						School of
a=					3-	System Design
SDM491	Capstone	12	12	4 Spring	None	and Intelligent
						Manufacturing
Total		167	71			
				1		

Curriculum Structure of Industrial Design

