**Table 2-1 Matrix of objectives of Electronic Information Engineering** 

Program Objective	Expected achievements in	Module/Corresponding	Expected
	knowledge, skill and competency	objective	outcomes of
			graduate training
			in knowledge,
			skill and
			competency (see
			also in 2.2.1)
To establish virtue	Knowledge: to master the	General education:	7) Ability of
through education:	knowledge of modern Chinese	Ideological and moral	environmental
to understand	history, basic principles of	cultivation and legal basis	and sustainable
China's current	Marxism, patriotism, humanistic	Outline of modern Chinese	development;
social model, be able	spirit, physical education and	history	8) Professional
to abide by social	military training.	Basic principles of Marxism	norms
norms, professional	Skill: to comply with social	An overview of MAO Zedong	
ethics and ethical	norms, professional ethics and	Thought and the theoretical	
norms in engineering	ethical norms in engineering	system of socialism with	
practice, consider	practice and consideration of	Chinese characteristics	
public interests, have	public interests.	An Overview of Xi Jinping	
a willingness and	Ability: to form a sound	Thought on Socialism with	
behavior to actively	personality and good	Chinese Characteristics for a	
serve the country and	psychological quality, have a	New Era	
society.	correct outlook on life, value,	Situation and Policy(1) - (8)	
	morality and law, have	Mental health of college	
	humanistic quality and social	students	
	responsibility.	Military theory for college	
		students	

		Centralized practice	
		Matriculation education and	
		military training	
Mathematics and	Knowledge: to master knowledge	Mathematics and physics:	1) Knowledge of
physics basics: to	related to mathematics and	Advanced mathematics A (1)-	engineering;
master mathematics	physics.	(2)	2) Ability of
and physics and other	Skill: to use mathematical	Linear algebra	problem analysis;
natural sciences to	knowledge to understand and	Probability theory and	
lay a solid foundation	appropriately express practical	mathematical statistics	
for subsequent	engineering problems, and to	Discrete mathematics	
courses and apply the	establish basic models to solve	Function of complex	
knowledge to solve	various practical problems in	variables	
complex engineering	technology and engineering	College physics B (1)- (2)	
problems.	applications.	College physics experiment	
	Ability: to observe, analyze and		
	solve technical problems from the		
	perspective and thinking mode of		
	mathematics and natural science.		
	According to the characteristics		
	of mathematics and natural		
	science, continuous analysis,		
	synthesis, calculation, judgment		
	and reasoning of engineering		
	phenomena can be carried out to		
	solve engineering problems.		
Professional	Knowledge: to master the basic	General education:	4) Ability of
competence: to	engineering and professional	College student computer	research;
master a wide range	knowledge in electronic	basics	5) Ability of using
of basic engineering	engineering, computer	Engineering basics:	modern tools;

and professional	technology, information	C language programming	
knowledge to lay a	technology and other fields.	Circuit analysis	
solid foundation for	Skill: to have relevant basic	Analog electronic technology	
the study of	engineering and professional	Digital electronics	
professional courses	knowledge, analyze various	Signals and Systems	
in the future.	engineering phenomena in	Data structure	
	electronic information	Communication	
	engineering, master general	Fundamentals	
	engineering knowledge, methods	Electromagnetic field and	
	and skills to solve practical	electromagnetic wave	
	problems in engineering	Centralized practice:	
	applications.	Electronics technology	
	Ability: to master the relevant	internship and electronic	
	concepts and basic principles of	product assembly and	
	electronics, computer and	debugging internship	
	information, and have the basic	Digital unit circuit simulation	
	knowledge of engineering.	and development	
	According to the characteristics	comprehensive practical	
	of electronic information	training	
	engineering, through continuous	Simulation of unit circuit	
	analysis, induction, judgment and	simulation and development	
	reasoning of engineering	comprehensive practical	
	phenomena, engineering	training internship	
	problems can be understood.	Metalworking practice A	
		Electrical and electronic	
		training A	
Professional	Knowledge: to master the	Engineering application:	3) Ability of
application: to	professional knowledge of	C++ Programming Language	design/developme
master professional	electronic information, especially	PCB design and drawing	nt solution;

knowledge to solve the professional knowledge Modern sensor and detection 6) Ability of engineering and complex engineering involved in the design of technology problems in the field High frequency electronic social practice; electronic information integration of electronic system and the comparison of integration system design scheme. information, have Digital signal processing skills to investigate, **Skill:** to use relevant professional Principle and application of design, analyze and knowledge to model and propose microcontroller propose solutions for solutions for complex problems in **Autonomous development** complex engineering electronic information (optional): Option 1: STM32 electronic problems in relevant engineering, can design electronic fields, be competent information systems that meet system design and in the research and specific requirements, and engineering application development, simulate and test the design and Option 2: principles and production, sales and analyze its results. applications of FPGA management of Ability: to master the design, Option 3: principles and electronic diagnosis, optimization and applications of embedded information system operation of electronic systems products, and have information system, be competent Centralized practice and certain innovation in the research and development, graduation thesis/design: awareness and production, sales and Integrated practical training of innovation ability. management of electronic microcontroller system information system products, and Electronic system engineering practice have a certain sense of innovation and innovation ability. Embedded system comprehensive training internship Graduation field work Graduation comprehensive training (thesis/design)

Comprehensive	Knowledge: to master a foreign	General education:	9) Ability of
quality and	language and pass CET-4(College	Literature search and paper	individual and
competency:	English Test 4), master	writing	team cooperation;
to master	comprehensive knowledge in	College Physical Education	10) Skill of
comprehensive	morality, intelligence, physique,	and Health (1) - (4)	communication;
knowledge conducive	aesthetics and labor for career	Foreign languages:	11) Ability of
to career	development.	College English (1) - (2)	project
development, have	Skill: to read professional	College English Extension	management;
the skills of	literature in English, possess	Series (1) - (2)	
international	comprehensive quality of	Autonomous development:	
cooperation and	electronic information, and have	Humanities and social	
communication	skills of literature search and	sciences	
adapted to social	paper writing.	Art and physical education	
development and	Ability: to have cross-	Others (1) - (2) (Cultural	
cross-cultural	disciplinary communication and	quality education, aesthetic	
integration, and	cross-cultural exchange skills.	education, cross-disciplinary	
develop		independent development	
comprehensively in		courses)	
morality,		Centralized practice:	
intelligence,		Laboring for public benefit	
physique, aesthetics		Social practice and volunteer	
and labor.		service	
Lifelong learning: to	Knowledge: to master cutting-	General education:	12) Ability of
track the	edge professional knowledge and	Career development and	lifelong learning
development trend of	development trends in the field of	employment guidance for	
related fields in	electronic information.	college students (1)-(2)	
electronic	Skill: to have skills for	Innovation and	
information, master	independent development,	entrepreneurship foundation	
the cutting-edge	innovation and entrepreneurship	Engineering application:	

knowledge and skills	and employment.	Introduction to electronic	
in this field, have the	Ability: to improve self-	information engineering	
awareness of	development through job	Autonomous development:	
independent learning	experience.	Robot development	
and lifelong learning,		Innovation and	
and further self-		entrepreneurship	
development through		Centralized practice:	
job experience.		Graduating education	