Appendix C-10 Databases, Journals and Lectures of the Library

Contents

University Library and Information Resource Platform

The library at Shanghai University of Engineering and Technology, Songjiang Campus, offers a rich collection of both physical and electronic books, journals, and other reference materials, with standardized management and high degree of resource sharing. It can meet the learning needs of students and the daily teaching and research requirements of teachers. There are an adequate number of computers, a wealth of information resources platforms, and students can access the internet through computer rooms, classrooms, and campus wireless networks. Students can access the required teaching resources through various channels. The clear requirements for literature retrieval in backbone courses, research projects, experimental teaching, course design, and graduation projects enable students to make full use of library and internet resources for literature retrieval, problem analysis, analysis of domestic and international research status, supporting the achievement of graduation requirements.

(1) School Library Resources

The total building area of the library at Shanghai University of Engineering and Technology, Songjiang Campus is over 28,000 square meters. The library operates an open shelf borrowing system and is open from Monday to Friday from 8:00 to 22:00. It includes 8 open reading rooms with nearly 2,000 seats, an information sharing space with 316 seats, audio-visual rooms, an academic lecture hall, meeting rooms, and 14 teachers' research rooms. The library provides wireless internet access inside the library and VPN remote access outside the library. According to the school's discipline layout of "engineering and technology as the main focus, with economics and management, and art design as two wings," the library collects various professional literature. The current collection includes over 1.91 million volumes of Chinese and foreign paper documents and nearly 3,300 Chinese and foreign paper journals.

In recent years, the library has intensified the construction of digital libraries, with access to 1.65 million electronic books, 63,800 types of electronic journals, and 47 Chinese and foreign databases. The Chinese databases include CNKI, Wanfang Data, CIDP Manufacturing Digital Resource Platform, Duxiu, and Chaoxing Journals, while the foreign databases include ScienceDirect, IEEE, ACS, SciFinder, ASME, SpringerLink, EBSCOhost, Emerald, Ei, PQDD, Web of Science, ESI, JCR, Incites, as well as online lecture halls and Global English multimedia databases. The diverse collection of resources broadens the service channels, providing effective literature resource support for teaching, research, discipline construction, and management across the entire university. To ensure the full utilization of library resources, the library provides services such as literature borrowing, copying, printing, binding, interlibrary loan, document delivery, electronic reading, audio-visual materials, subject navigation, technological achievement search, topic retrieval, literature data search, information retrieval training, and more.

In recent years, the school has increased efforts in the construction of digital libraries, launching the "Chaoxing Mobile Library," allowing students and teachers to access library resources anytime, anywhere using smartphones or iPads. The download link for the Daodong Library client version is (http://m.5read.com/appdown.html).

This Programme explicitly requires teachers to make full use of computers, networks, and library resources in course teaching. In various aspects such as experimental courses, course design, professional internships, graduation projects, and most of the third and fourth-year professional courses, teachers require students to use reference books and network resources for learning. This includes collecting and selecting relevant literature, reading reference books, translating foreign literature, and preliminary experiment plan formulation. Teachers check students' learning effectiveness through submitted assignments and course reports. The school and library have set up multiple computer network service stations to facilitate students who lack access. Teachers can fully utilize the school's library and network resources to promptly obtain global scientific dynamics, cutting-edge professional knowledge and information, enhancing teaching and research quality. The Chinese and foreign databases of the school library can be found in Table 1, and a list of academic journals related to this Programme can

be found in Table 2. Through courses such as "Information Retrieval" offered by the library and various lectures, students are guided on using different databases and network resources related to their courses.

The school's library resources related to this Programme are abundant, well-managed, and highly shared. Since the establishment of the Industrial Design Programme, the school and the college have invested significantly in the construction of library information materials for this Programme, fully meeting the learning needs of students, teachers' daily teaching and research requirements, and the support conditions required by the certification standards for this Programme. The library contains over 3,000 art and design books, more than 30 journals covering topics such as product packaging design methods, design psychology, packaging materials and processing technology, packaging design thinking and expression, packaging marketing, design history, and packaging design frontier information. The per capita book rate for students in this Programme exceeds 300%.

The school has established relevant management systems and measures for computer, network, and library resource sharing, including the "Shanghai University of Engineering and Technology Library Violation Handling Regulations," "Shanghai University of Engineering and Technology Library Borrowing Rules," "Shanghai University of Engineering and Technology Campus Card Management Measures," "Shanghai University of Engineering and Technology Information Office Core Data Center Rules," "Shanghai University of Engineering and Technology Network Server Hosting Measures," "Shanghai University of Engineering and Technology Campus Information and Network Security Management Regulations," "Shanghai University of Engineering and Technology Website Management and Information Release Regulations," and "Shanghai University of Engineering and Technology Campus Network Email Application and Use Regulations." The sharing and utilization of computer, network, and library resources include the following aspects:

●Establishment of dynamic department webpages with additional service modules such as friendly links and information sharing spaces. The library's WeChat platform sends nearly 60 messages per year, including about 100 articles. Online responses to reader questions average 2-3 times per week, nearly 100 times per year.

●Creation of an information sharing space covering over 1,200 square meters, divided into multimedia, leisure, experience, and discussion areas. The multimedia area is equipped with computers and ergonomic chairs, the leisure area provides internet and power supply, the experience area has computers and high-precision 3D printers, the stepped area allows for new technology experiences, lecture exchanges, and audio-visual appreciation, and the discussion area includes discussion rooms and semi-open discussion areas. The information sharing space operates effectively.

●The library provides self-service printing, copying, and scanning terminals, with an annual output of nearly 200,000 pages (reaching 220,000 pages in 2019), greatly facilitating students and teachers in accessing and utilizing materials in the library.

●Modernized management of reading room seat resources through a seat management system, with nearly 500,000 card-swipe seat selections per year.

●The annual login frequency for the mobile library app reaches 275,000 times, with 1.2 million clicks, and the digital book download volume from the digital library kiosk reaches 74,000 copies.

(2)College Library Resources

The School of Art and Design is equipped with two college-level public library reading rooms located in Room A406 (approximately 85m2) and Room A400 (approximately 18m2) in the Art Building, with a total of 4,902 books (including over 600 books related to industrial design) valued at 568,700 yuan. The journal collection includes industry journals and art and creativity magazines such as "Art and Design", "Product Design", "Decoration", and "Packaging Engineering" meeting the basic professional requirements. The books are regularly updated to meet students' daily study needs. The reading rooms are managed by dedicated staff from the college, are open for extended periods, and students and faculty can freely access the reading rooms to borrow books after registration. The reading rooms are equipped with tables and chairs for reading on-site, and books cannot be borrowed.

(3)Computer Resources

The school has ample computer resources, with computer resources closely related to this Programme mainly distributed in the library, computer center, and the college's computer labs. The library has 100 computers open for free use by faculty and students all day, mainly for book and paper retrieval, information queries, and teaching of the school's "Information Retrieval" course, enhancing students' ability to access information resources. The computer center has 4 classrooms and 10 computer labs with a total of 950 computers. The computer center is responsible for teaching students courses such as "Fundamentals of Computer Applications," "C Language Programming," and "Python," meeting the requirements for teaching object-oriented programming in this Programme.

(4)Information Resource Platforms

●Campus Network Infrastructure Platform

The school's campus network has an export bandwidth of 2.3G, core backbone reaching 10G, and desktop access reaching 1G, covering all teaching, research, and office environments on-campus with wired networks, fully implementing campus-wide identity authentication for internet access. In 2015, the school completed the first phase of wireless network construction, achieving full coverage of wireless broadband networks (WIFI). The advanced campus network infrastructure provides vital support for improving undergraduate teaching quality and management levels.

●Campus Information Infrastructure Platform

The school has established three basic platforms, including a shared database platform, a comprehensive service portal for faculty and students, and a unified identity authentication platform. The shared database platform is a unified data resource sharing and exchange application service platform that enables public data sharing among five departments including personnel, research, academic affairs, student affairs, and graduate students; the comprehensive service portal provides comprehensive information services for students and teachers, including student affairs, academic affairs, finance, library, campus cards, and daily life; The unified identity authentication platform is one of the basic platforms for smart campus construction,

providing a unified user management platform and identity authentication services for various network services and application systems of the smart campus.

●Campus Smart Card

The campus smart card is used by faculty and students for various purposes such as dining hall meals, on-campus borrowing, attendance, meeting sign-ins, access control, on-campus medical services, serving as a substitute for work permits, student IDs, and library cards. It has become an indispensable tool for students and teachers in their academic studies and work.

●Shanghai University of Engineering and Technology Course Center

Establishing an online teaching platform is one of the important ways to guide students towards independent learning. The school's course center is a new network-assisted teaching platform that gathers a wealth of undergraduate teaching information resources, serving as a creative teaching support platform for teachers, a personalized independent learning support platform for students, as well as a teaching service information platform, teaching achievement display platform, and teaching management application platform. Through the course center, teachers can manage courses, and students can learn online. To date, the course center website has over 2,500 courses, becoming a high-quality teaching resource sharing platform for teachers' teaching and students' learning. The platform facilitates teachers in changing their teaching and educational concepts, promoting timely updates of teaching content, continuous improvement of teaching methods, and enhancing communication between teachers and students, and among students. For students, it enhances their ability and interest in independent and research-oriented learning, creating conditions for cultivating more and better innovative talents. The core courses of this Programme have established teaching websites on the school's course center, with all electronic teaching materials for the courses available online, breaking the restrictions of time and location, and increasing opportunities for interaction between teachers and students.

●Teaching Management Information System

The school has established a teaching management information system, the main platform for implementing teaching management and ensuring the operation of teaching. It is responsible

for resource allocation for all teaching activities, teacher arrangements, and recording the entire student learning process.

This system features numerous personalized functions covering all aspects of teaching management, meeting school teaching management requirements and daily teaching operation management needs. The platform is powerful and easy to use, serving as the main platform for teaching management. Students can select courses, evaluate teaching quality, and check course evaluation results through this platform. Through this platform, teachers can publish teaching calendars, access student information, and manage exam results.

●Graduation Project Management Platform

The college has established an undergraduate thesis design management system, the Bachelor's Degree Thesis Management Information Platform, through which teachers can publish bachelor's degree thesis topics, and students can freely choose topics of interest. The system monitors the quality of graduation theses, managing the entire process from thesis topic selection to mid-term check and defense.

●Barrier-Free Facilities

All offices, laboratories, lecture halls, and libraries on campus have full wireless network coverage; the computers in the computer center are updated annually based on actual needs to meet development requirements; network and virtual reality technologies facilitate remote operation of high-end computer auxiliary equipment; all newly constructed laboratories, classrooms, office buildings, etc., are equipped with barrier-free facilities, enabling disabled students to access teaching venues smoothly.

In conclusion, the school has comprehensively constructed a safe, efficient, scalable, and open information-based campus infrastructure to meet the needs of educational informatization. It has achieved full coverage of wireless networks in public areas on-campus, implemented networked administrative office operations, teaching information management, resource sharing, and other functions, meeting the needs of student learning, faculty teaching, and research work.

Table 1 Library database

Serial number	**Chinese**	**English**	**Trial**
1	Superstar Master pulpit	EBSCO(asu)	Superstar Discovery
2	Development Research Center of The State Council information network	EBSCO(bsu)	Shuxiang Shanghai University of Engineering and Technology database trial
3	Oral Partner	EBSCO Database Platform (BSP)	Superstar Journals
4	Shangye Encyclopedia video	EBSCO(asc)	
5	Leather-book database	EBSCO(bsc)	
6	Superstar Huiya ebooks	DL(IET Digital Library)	
7	Kuke Digital Music Library	Web of Science(SCI)	
8	Online Lecture Hall (online version)	Web of Science(CPCI)	
9	New Oriental Multimedia Learning Library	Underline Digital Video Library	
10	Superstar Journal full text	wiley online library	
11	CNKI	ACS Publications	
12		ASME	
13		IEEE	
14		ScienceDirect	

Table 2 Major Academic Journal Subscriptions

Serial number	Journal name	Period
1	Journal of Engineering for Gas Turbines and Power	1979-2001
2	Power Engineering Energy Convers ion and Management	1979-2001
3	Power	1981-1994
4	Journal of Heat Transfer	1979-1994
5	International Journal of Heat and Mass Transfer	1979-1994
6	Journal of Fluids Engineering	1982-2001
7	Heat Engineering	1979-1994
8	Turbomachinery International	1979-1994
9	Journal of Engineering Thermophysics	1985-present
10	Journal of Power Engineering	1981-present
11	Journal of Engineering for Thermal Energy and Power	1987-present
12	Natural Gas Industry	1996-present
13	Gas & Heat	1996-present
14	Energy Conservation	1981-present
15	Energy Conservation Technology	1982-present
16	Energy of China	1990-present
17	Fluid Machinery	1982-present
18	Chinese Internal Combustion Engine Engineering	1980-present
19	Safety Technology of Boiler and Pressure Vessel	1983-present
20	Industrial Furnace	1985-present

21	Industrial Boiler	1985-present
22	Industrial Heating	1991-present
23	Energy Technology	1990-present
24	Journal of Refrigeration	1990-present
25	Chinese Journal of Refrigeration Technology	1990-present
26	CRYOGENICS	1990-present
27	Boiler Technology	1987-present
28	Journal of HV &AC	1985-present
29	Thermal Power Generation	1993-present