NUTECH-TANG COLLABORATION

DAE PROSPECTUS

SOFTWARE TECHNOLOGY

2023

DAE Software Technology (3 Years)

(2 Years at NUTECH, 1 Year in China)

Program Overview

DAE Software Technology is a comprehensive three-year technical program designed to provide students with the necessary skills and knowledge in software technology. The program aims to produce highly skilled and industry-ready professionals who can meet the demands of the rapidly evolving software industry. The curriculum integrates theoretical learning, practical training, and an international exposure component in China, ensuring a well-rounded educational experience for the students.

Vision

The vision of the DAE Software Technology program is to "Develop an internationally renowned Technical and Vocational Education and Training (TVET) system and centers of excellence. By implementing novel benchmarks, the program aims to produce industry-driven, high-end professionals and skilled workers who can contribute significantly to the software industry".

Mission

The mission of the DAE Software Technology program is to "develop a competency-based and market-oriented TVET system. By adopting the best international TVET practices and promoting lifelong learning, the program aims to enhance the employability of youth and bridge the gaps between industry and academia. The ultimate goal is to make meaningful contributions to the socio-economic development of Pakistan".

International Exposure Component

As part of the program, students will have the opportunity to spend one year in China, gaining international exposure and experiencing a different cultural and educational environment. This component aims to broaden students' perspectives and enhance their understanding of the global software industry.

Affiliation

DAE Software Technology is affiliated by Punjab Board of Technical Education (PBTE).

Qualification Stream

DAE Software Technology falls under the technical stream, offering specialized training in software technology and related fields.

Admission Requirements

Prospective students should have completed their Matric or O-levels with science subjects as a prerequisite for admission into the DAE Software Technology program.

Fee Structure

- Application Processing Fee (at the time of Registration & Non-Refundable) : 2,000/PKR
- Admission Fee (one-time & Non-Refundable) : 5,000/PKR
- Security Deposit (one-time & Refundable) : 5,000/PKR
- Monthly Fee (preferably payable on quarterly) : 5,000/PKR

Program Highlights

Courses: 1st Year (NUTECH, Pakistan)

Sr No.	Course Code		Course Name	Theory	Practical	Cr. hours
1.	Gen	111	Islamiat & Pakistan Studies-1	1	0	1
2.	Eng.	112	English	2	0	2
3.	Chinese	112	Chinese Language-1	2	0	2
4.	Math	123	Applied Mathematics-I	3	0	3
5.	Phy	132	Applied Physics	1	3	2
6.	Chem	132	Applied Chemistry	1	3	2
7.	CIT	112	Computer Application S/W	0	6	2
8.	SWT	112	Introduction to Computer Programming with JAVA	1	3	2
9.	SWT	122	Introduction to database concept and SQL programming	1	3	2
10.	SWT	132	Basics of HTML5 Web Dev	1	3	2
Total				**13**	**21**	**20**

Courses: 2nd Year (NUTECH, Pakistan)

Sr No.	Course Code		Course Name	Theory	Practical	Cr. hours
1	Gen	211	Islamiat & Pakistan Studies-2	1	0	1
2	Math	233	Applied Mathematics-2	3	0	3
3	Mgmt.	211	Business Communication	1	0	1
3	GenC	212	Chinese Language-2	2	0	2
4	MgmC	212	Understanding China	2	0	2
5	CIT	223	Computer Networks	2	3	3
6	MTR	272	Digital Logic Design	1	3	2
8	SWT	212	Basics of Android App Development	1	3	2
9	SWT	223	Web Development w/JAVA	1	6	3
10	CIT	263	Relational Data-Base Management System	2	3	3
11	CIVIL	271	Entrepreneurship	1	0	1
12	SWT	231	Project Training-I	0	3	1
			Total	**17**	**21**	**24**

Courses: 3rd Year (TANG Institute, CHINA)

Sr No.	Course Code		Course Name	Theory	Practical	Cr. hours
1	GenC	312	Chinese Language-3	1	0	1
2	Eng.	311	Technical Report Writing	1	0	1
3	CIT	344	Graphic Designing	2	6	4
3	CIT	333	Operating System	2	3	3
4	SWT	312	Advanced HTML 5 Web Development	1	3	2
5	SWT	322	Advanced Development with JAVA	1	3	2
6	SWT	332	Machine Learning Applications	1	3	2
8	SWT	342	Advanced Android App Development	1	3	2
12	SWT	351	Project Training-I	0	3	1
			Total	**10**	**24**	**18**

Program Structure

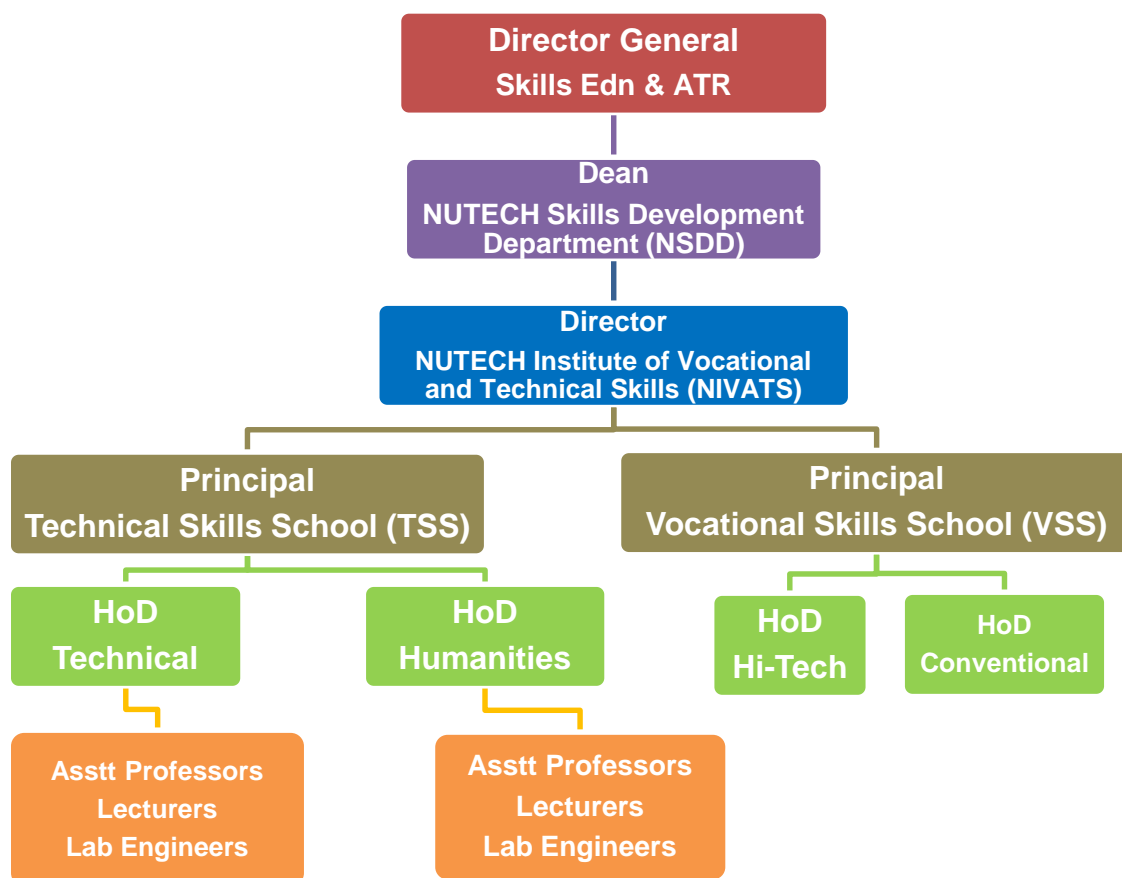Total Courses: 28 (including 6 Humanities courses and 1 Chinese Language course)

Total Credit Hours: 62 (1 credit hour for theory courses, 3 credit hours for practical courses)

Total Hours: 2976.

Career Prospects

Upon completion of the DAE Software Technology program, graduates can pursue various career paths in the software industry. Potential job roles include software developer, web developer, database administrator, software tester, network administrator, and IT support specialist. Graduates may find employment in software development companies, IT consulting firms, financial institutions, government organizations, and other sectors that require software technology expertise.

Organization Structure for DAE Software Technology

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                    Director General
                    Skills Edn & ATR
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                          Dean
              NUTECH Skills Development
                  Department (NSDD)
                           |
                        Director
              NUTECH Institute of Vocational
                and Technical Skills (NIVATS)
                           |
        ┌──────────────────┴──────────────────┐
     Principal                            Principal
  Technical Skills School (TSS)    Vocational Skills School (VSS)
        |                                     |
    ┌───┴────┐                           ┌────┴────┐
   HoD      HoD                         HoD       HoD
 Technical  Humanities                 Hi-Tech   Conventional
   |          |
 Asstt     Asstt
 Professors Professors
 Lecturers  Lecturers
 Lab Engineers Lab Engineers
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Faculty Details

S#	Subject	Faculty			
		Theory	Qualification	Practical	Qualification
First Year					
1	Islamiat & Pakistan Studies	Dr. Shoaib Ashraf	PhD Islamic Banking and Finance	-	-
2	English	Miss Ayesha Zareef	MS Project Management	-	-
3	Chinese Language-1	Visiting Faculty	-	-	-
4	Applied Mathematics-I	Dr. Mehwish Manzoor	PhD Mathematic	-	-
5	Applied Physics	Dr. Hassan Rehman	PhD Physics	Dr. Hassan Rehman	PhD Physics
6	Applied Chemistry	Dr. Maria Hassan	PhD Chemistry	Dr. Maria Hassan	PhD Chemistry
7	Computer Application Software	Mr. Ali Khaquan	MS IT	Mr. Maryam Zaman	MS CS
8	Introduction to Computer Programming with JAVA	Mr. Nauman Hashmi	MS CS	Mr. Zain bin Mushtaq	BS Electronics
9	Introduction to database concepts and SQL Programming	Mr. Ashar Ahsan	BS CS	Mr. Sharaz Javed	BS CS
10	Basics of HTML5 Web Development	Mr. Qazi Nauman Ejaz	Master of Computer Science	Mr. Naveed Khan	MS CS
Second Year					
1	Islamiat & Pak Studies	Mr. Shoaib Ashraf	PhD Islamic Banking and Finance	-	-
2	Applied Mathematics-2	Dr. Mehwish Manzoor	PhD Mathematic	-	-
3	Business Communication	Mr. Junaid Mehboob	MS Project Management	-	-
4	Chinese Language-2	Visiting Faculty	-	-	-
5	Understanding China	Visiting Faculty	-	-	-
6	Computer Networks	Mr. Ali Khaquan	MS IT	Miss Maryam Zaman	MS CS
7	Digital Logic Design	Mr. Yasir Ali Khan	MSc Electrical Engineering	Miss Rukhsana Perveen	MS EE
8	Basics of Android APP Development	Mr. Faizan Abbas	MS CS	Mr. Sharaz Javed	BS CS
9	Web Development with JAVA	Mr. Nauman Hashmi	MS CS	Mr. Zain bin Mushtaq	BS Electronics
10	Relational Data-Base Management System	Mr. Qazi Nauman Ejaz	Master of Computer Science	Mr. Naveed Khan	MS CS
11	Entrepreneurship	Mr. Muqtada Hussain	MS Software Engineering	Mr. Shahmeer Kausar	BS CS
12	Project Training-1	-	-	-	-
Third Year in China					