



SUPERIOR  
UNIVERSITY



## BS Internet of Things

FACULTY OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY



**RANKED NO. 1** IN  
QUALITY OF EDUCATION  
IN PAKISTAN

WORLD RANK IN  
QUALITY OF EDUCATION  
**101-200**

OVERALL RANK IN  
WORLD'S TOP  
**401-600**

AMONG THE  
**TOP 10**  
UNIVERSITIES OF  
PAKISTAN

# 3U1M<sup>®</sup>

## 3 Years in University and 1 year in Market

3U1M is our unique and distinctive framework which is focused on enabling and empowering the youth to create social and economic impact. This research-informed experiential learning program has been designed to ensure student success by teaching not only theories but their practical implications to equip our students with the skills of 21st-century graduates. This employability ensured program is a milestone in our mission for developing an economically Superior Pakistan.

### Year 2 - Exploration PBL 2

In year 2 students explore the emerging concepts of the relevant industry and gain experiential learning through Project based learning Level 2.

### Freshman Program

A rigorous on-boarding program for a smooth transition to university education through IQ & EQ Accelerators preparing students for entering university life.

### 1M-Market Intensive Year

For the final Market Intensive Year "1M" (one year in the market), we have designed four indigenous career streams i.e., Design Challenge, Startup, Scaleup & Superior Go Global so our students may choose any track according to their aptitude.

## Career Pathways

**Startup:** to become a successful entrepreneur by getting incubated at our **Innovation District 92 (ID-92)**



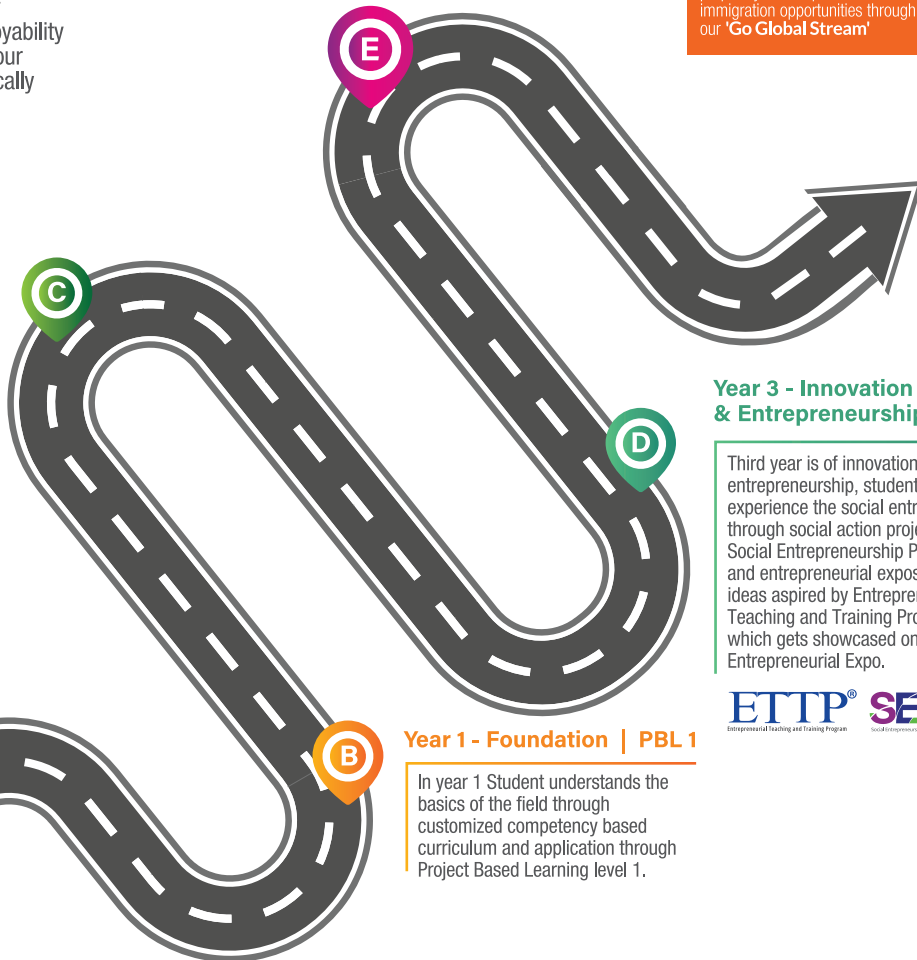
**Scaleup:** to uplift your family business by getting trained at our accelerator "ScaleupPk"



**Design Challenge:** to become a valuable resource for corporate world by solving a real-time industry problem following **Design Thinking** approach



**Superior Go Global:** to prepare you to explore career and immigration opportunities through our 'Go Global Stream'



### Year 3 - Innovation & Entrepreneurship | PBL 3

Third year is of innovation and entrepreneurship, students will experience the social entrepreneurship through social action projects under Social Entrepreneurship Program (SEP) and entrepreneurial exposition of new ideas aspired by Entrepreneurship Teaching and Training Program (ETTP) which gets showcased on Superior Entrepreneurial Expo.



### Year 1 - Foundation | PBL 1

In year 1 Student understands the basics of the field through customized competency based curriculum and application through Project Based Learning level 1.

# BS

## Internet of Things

Superior University's BS Internet of Things program equips students with the key skills to design and produce the next generation of transformative devices and systems with a special focus on the main elements of the IoT systems. With an emphasis on the human interaction with IoT that goes far beyond the internet, the curriculum underlines how data moves between devices, apps, and the cloud while helping students comprehend AI-driven data analysis.

Course Duration	4 Years
Semesters	8
Total Credit Hours	131

### Eligibility

Intermediate or Equivalent.

### Semester 1

Introduction to Information & Communication Technologies	4
Programming Fundamentals	4
Pakistan Studies	2
Digital Logic Design	4
English Composition & Comprehension	3

### Semester 4

Computer Networks	4
Computer Organization & Assembly Language	4
Analysis of Algorithms	3
Introduction to Internet of Things	3
IoT Elective-1	3

### Semester 2

Object Oriented Programming	4
Database Systems	4
Probability & Statistics	3
Communication & Presentation Skills	3
Calculus & Analytic Geometry	3

### Semester 5

Operating System	4
IoT Analytics and data visualization with Cloud Services	3
Microcontrollers for IoT Devices	3
Network Protocols for IoT	3
Discrete Structures	3

### Semester 7

Final Year Project - I	3
Software Engineering	3
IoT Elective-3	3
Differential Equations	3
University Elective-2	3

### Semester 3

Data Structures & Algorithms	4
Information Security	3
Artificial Intelligence	4
Linear Algebra	3
Technical & Business Writing	3

### Semester 6

Parallel & Distributed Computing	3
Introduction to Security of Internet of Things and Cyber-Physical Systems	3
IoT Applied Machine Learning	3
University Elective-1	3
IoT Elective-2	3
Islamic Studies/ Ethics	2

### Semester 8

Final Year Project - II	3
University Elective-3	3
University Elective-4	3
Professional Practices	3
IoT Elective-4	3

To accommodate modern trends, University reserves the right to change course requirements, fee, course classifications, course content, class schedule, venue, faculty and the like, whenever it deems appropriate.



# 3U1M<sup>®</sup> WITH GLOBAL EXPERIENCE

## CAREER SCOPE

- Land jobs as an IoT infrastructure architect
- Secure employment as an IoT systems administrator
- Attain jobs as a cyber engineer in the top multinational companies
- Global exposure for higher education, internship, job or immigration through 3U1M Stream 'Superior Go Global'

## DISTINCTIVE FEATURES

- One-year Industrial experience before graduation.
- Collaboration with leading IoT services Organizations
- Purpose-built campus featuring state-of-the-art facilities
- Reputable international certifications and industry-centric projects

To apply online, please visit  
[admissions.superior.edu.pk](https://admissions.superior.edu.pk)  
042-111-00-00-78



### University Campus, Lahore

17-KM, Main Raiwind Road, Lahore.  
Ph: 042-38103777

### Sargodha Campus

10-KM, Lahore Road, Sargodha.  
Ph: 048-211-00-00

### Faisalabad Campus

13-KM Satiana Road, Near Khanuana  
Bypass, Faisalabad. Ph: 041-8792007-8

### Rahim Yar Khan

East Bank Sadiq Canal Road, Darri Sanghi,  
Rahim Yar Khan. Ph: 068-5958009