



Inbound PG SUSEP GUIDE

Sep 2026 Trimester (Sep - Dec)

ABOUT SUTD

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN (SUTD)

Singapore University of Technology and Design (SUTD) is Singapore's 4th public university and one of the world's first university to incorporate the art and science of design and technology into its interdisciplinary curriculum and research.

SUTD was established in collaboration with Massachusetts Institute of Technology (MIT) and incorporates elements of entrepreneurship, management and design thinking in its unique programmes.

We welcome students from partner universities to join us for a term of exchange and be part of this unique and dynamic culture and environment!

10 MINUTES
from Singapore Changi Airport

35 MINUTES
to City Centre

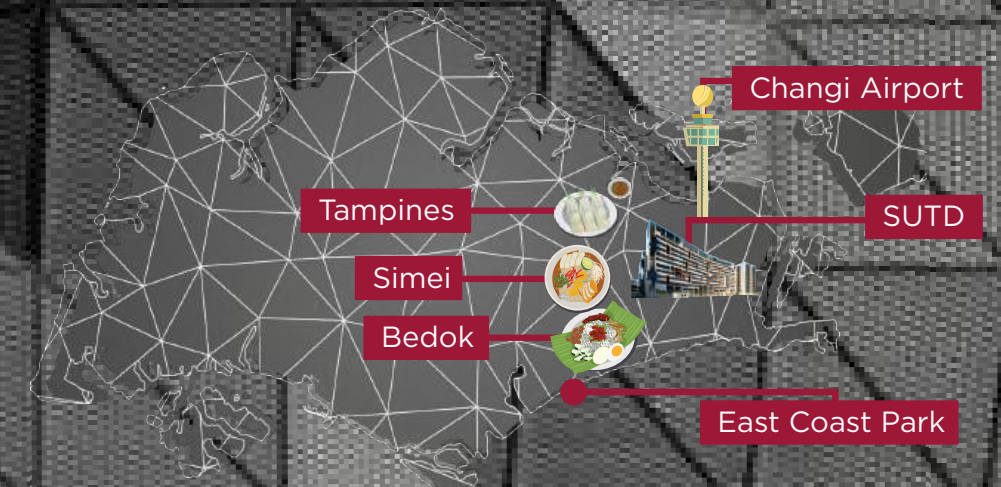
Human-Centric Approach to Technology and Design

How does SUTD compare with the world's best engineering schools?

A study* by MIT recognises SUTD as "the foremost emerging leader in engineering education".

Our unique approach nurtures you to be future-ready and tackle multi-faceted issues of the 21st century with interdisciplinary solutions, powered by emerging technologies, and developed from the user's perspective.

*According to 'The global state of the art in engineering education', a study commissioned by MIT.



Campus Location

Located in the East of Singapore, the campus metro station connects you to anywhere in Singapore! The nearby towns of Bedok, Simei and Tampines are treasure troves of local cuisines. You can also head over to East Coast Park or Changi Beach to enjoy cycling along the coast.

 sutd.edu.sg/About/Contact-Us

METRO STATION
right at SUTD's doorstep



SINGAPORE UNIVERSITIES STUDENT EXCHANGE PROGRAMME (SUSEP)



ACADEMIC EXCHANGE

SUSEP students take a minimum of 1 subject (equivalent to 12 credits) at SUTD and the remaining subjects at their home university.

Note.

All classes and exams at SUTD are conducted physically. SUSEP students are to ensure that the class and exam schedules do not clash between SUTD and those of the home university, if any.





SUSEP

ELIGIBILITY

- Nominated by SUTD partner universities to enjoy tuition fee waivers for exchange at SUTD.
- Ensure you are capable of going through an academic term with subjects delivered in English.

SUBJECTS OFFERED

- SUSEP students can take subjects across different pillars and clusters during exchange application.
- All subjects are delivered in English.
- As allocation of subjects is subjected to availability and fulfillment of pre-requisites.

WHAT SUBJECTS CAN I TAKE?



Refer to the
List of Subjects
(Fall term) offered to
SUSEP exchange
students

EXCHANGE TIMELINE

FALL ACADEMIC (14-WKS)

01 Nomination for Exchange  You must be nominated by your home university first before applying to SUTD.	02 Application for Exchange  Ensure that all supporting documents are submitted when completing your application.	03 Offer and Acceptance  If successful, you will be informed via email. Login to accept the offer and view the list of approved subjects.	04 Online Matriculation  Matriculation is a formal process where you register for study at SUTD. You will be informed on the procedures via email.
Mid-Jun	End-Jun	Mid-Jul	Mid-Aug

05 Subject Enrollment  You will be informed via email when the finalized timetable is available.	06 Orientation  A 2-day Orientation is held on the Wednesday and Thursday before the first week of your exchange. You can meet your fellow SUTD friends!	07 Start of Exchange  Ensure that you have completed all the assignments for all the subjects/projects you take.	08 End of Exchange  Ensure that you have completed all the assignments for all the subjects/projects you take.
End-Aug	Mid-Sep	14 Sep 2026 (Week 1 of Term)	19 Dec 2026 (Week 14 of Term)

Dates may be subjected to change.



ADMINISTRATIVE INFORMATION

- SUTD Hostel is not available to SUSEP students.
- SUSEP students are not required to purchase SUTD insurance since they are covered by existing insurance at the home university.
- SUSEP students are not required to pay Compulsory Miscellaneous Fees (CMF).
- SUTD Exchange Awards and Scholarships are not available to SUSEP students.



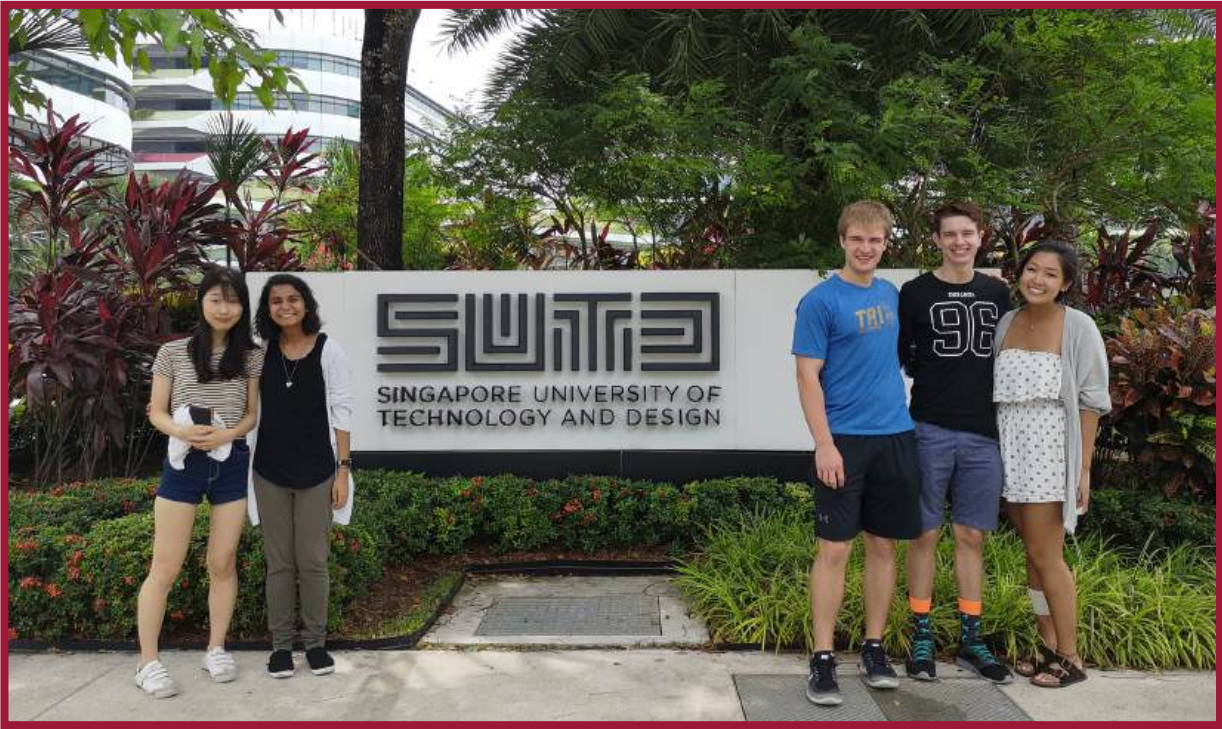
ANNEX

KEY EXCHANGE DATES



EXCHANGE PERIOD - 2026 Sep Trimester

Fall 2026 (14-weeks)	
Orientation	10 & 11 Sep 2026, Thu & Fri
Start of Exchange	14 Sep 2026, Mon
Recess Week	25 Oct - 1 Nov 2026
Final Examinations	16 to 18 Dec 2026
End of Exchange	19 Dec 2026, Sat



*Dates are subject to change.
You may refer to: sutd.edu.sg/academic-calendar

SUTD CREDIT & GRADING SYSTEM



CREDIT SYSTEM

1 SUTD Subject Credit (SCs) is equivalent to 1 hour of workload per week. The subject workload in terms of hours and SCs is represented by a series of 3 numbers. All of the 3 numbers add together to represent the total SCs for the subject.

For example:
3-5-4 (Total SCs is 12)

“3” (first number) represents actual contact hours for lectures or cohort-based learning per week

“5” (second number) represents hours for laboratory, design or fieldwork per week

“4” (third number) refers to hours a student is expected to spend on preparation per week

! Please check with your home university on the credit transfer matters.

Email phd@sutd.edu.sg if you require more information on the assessment and syllabus of respective subjects.

GRADING SYSTEM

SUTD uses a 5-point grading system as follows:

Grade	Point	Remarks
A+	5.30	Exceptional performance
A	5.00	Excellent performance
A-	4.50	Excellent performance in most aspects
B+	4.00	Very good performance
B	3.50	Very good performance in most aspects
B-	3.00	Good performance
C+	2.50	Fairly good performance
C	2.00	Satisfactory performance
D+	1.50	Improvement needed
D	1.00	Minimally acceptable performance with much improvement needed
D-	0.00	Fail



USER GUIDE FOR EXCHANGE APPLICATION

DOCUMENTS REQUIRED

Front and Back of NRIC (for Singaporeans and PRs)		
1 QR Passport Particulars Page (for International Students)		
<i>Colour scanned copy, in pdf format, max 5 MB</i>		
2 Latest Official Academic Transcript (s)		Issued by your home university with an explanation of the grading system.
<i>Colour scanned copy, in pdf format, max 5 MB</i>		
3 TOEFL/IELTS Score		Optional, if there are applicable results
<i>Colour scanned copy, in pdf format, max 5 MB</i>		
4 A copy of your CV		

PROCEDURES

STEP 1

Create an Application Account

Visit admission.sutd.edu.sg and create an application account.

Enter your own User ID, Full Name (**as per your NRIC/passport**) and your Email Address. You will receive an email with User ID and Password at the email address you have entered upon successful account registration.

You will be required to change your password upon the first login.

STEP 2

Start Application

- Select Application Type (Inbound Exchange PG SUSEP) and Period of Study
- Select the correct Application Programme: Non-graduating Post-Grad

STEP 3

Submit Application

There are 6 sections in the application.

- Account Holder's Declaration
- Personal Information – Personal Particulars, Contact Information etc.
- Academic Qualifications
- Supplementary Results
- Pillar and Subject Selection

Please read the instructions carefully at each stage of the application. Ensure that all supporting documents are submitted to avoid delay in processing of your application. Remember to click “Save” after you have completed each section.

CONNECT WITH US



<https://www.sutd.edu.sg/Admissions/Graduate>



phd@sutd.edu.sg

Courses offered by Singapore University of Technology and Design (SUTD) for PhD Students Exchange Programme AY2026/27 (September 2026 intake) as of 5 June 2026

Note: List of courses may be subject to changes without prior notice.

No.	Programme	Pillar/Cluster	Course Code	Course Title	Course Description	Grading/Credits	Remarks
1	PhD	LKYCIC	02.501	Urban Theory I: Theory and Dynamics of Urban Social Processes	This course exposes students to foundational theories and key socio-economic processes and trends that have given shape and meaning to urban development across a number of time periods and cultural contexts. Through an emphasis on the historical and future drivers of change in cities, students will relate theories of the social and physical evolution of cities to structural change, social and political movements, technological advancements, and public policy that impacts urban systems more generally.	Graded	
2	PhD	LKYCIC	02.521	Urban Data and Methods I: Analyzing Urban Futures	The Urban Data & Methods component of the MUSPP is composed of two courses – Part 1 on Analyzing Urban Futures and Part 2 on Interpreting Urban Trends: Urban Inequity, which will be taught in Term 1 and Term 2 respectively. The collective aim of these two courses is to equip students with methods and tools to undertake urban research and analyze urban trends that can inform the crafting of interventions for a better urban future. A key focus of the courses is deepening the understanding and skills to handle both quantitative and qualitative data, secondary and primary datasets through desktop and fieldwork. A major emphasis of the courses is learning to apply social science methodologies and tools to the study of the urban realm.	Graded	
3	PhD	LKYCIC	02.528	Spatial Analysis of Urban Data	This course focuses on the use of GIS (Geographic Information Systems) in the urban context, applying GIS tools and techniques for analysing, modelling, and visualizing geospatial data in urban environments. The most fundamental concepts and techniques in GIS and spatial data analysis are covered in this course, including data collection, data management, and data visualization. Additionally, specific applications of GIS in the urban studies will be taught, namely participatory mapping, basic space syntax segment modelling, and isovist analysis. Students will learn about the principles of participatory planning and how participatory mapping data can be collected and utilised in this context. We will particularly focus on public participation geographic information system (PPGIS) as a participatory mapping method. Segment modelling will also be taught to analyse pedestrian and vehicular accessibility, while isovist analysis will inform assessments of spatial visibility affecting perceptions of safety, privacy, and navigation. The course is delivered as a combination of lectures and hands-on exercises. Students will get to practice methods covered in the lectures during the hands-on portions and practice geospatial problem solving through a project at the end of the course.	Graded	
4	PhD	LKYCIC	02.541	Urban Planning and Policy I: Urban Planning & Socio-Spatial Thinking	This course introduces the historical and contemporary bases of urban planning as a process and practice, with a focus on developing a socio-spatial mind in approaching urban interventions critically and practically. It is designed to equip students to understand the scope of urban planning in the development of cities and regions, and how urban planners think and make decisions about land use and design of public places to meet social, economic, political, and environmental goals. A core pedagogic aim of the course is the emphasis of how theories and histories of planning relate to practice. For this purpose, a 4-week planning and design studio is incorporated into the course to offer students the opportunity to experience the thought-process of an urban planner when planning and designing intervention for a study site. In addition to this, some assignments are crafted to get you off the armchair and into the urban plazas, streets, and neighborhoods to look, sense, and experience the intricacies in the formation of urban life. Students will learn how to conduct neighborhood research and analysis. As part of the integrative MUSPP programme curation, this course will help students learn about how the urban realm is scientifically studied and forms a part of planning research that informs urban planning and policy decisions.	Graded	
5	PhD	LKYCIC	02.565	Urban Psychology	Cities are the most complex of all human inventions. While majority of the world's population live in cities, we know comparatively little about how we influence and are influenced by cities. Urban psychology operates in an interdisciplinary context as an application area of psychology in cities, exploring human perception, decision-making, and behaviour. This course will introduce urban psychology and its application to different urban issues, including health and well-being, sustainability and resilience.	Graded	
6	PhD	HASS	02.514	Financing Cities of the Future: Theory and Practice	This course provides students in technology and design with comprehensive knowledge on finance for urban development and management by introducing a range of terms, vehicles, instruments, schemes, and implementations along theoretical frameworks and real-world scenarios. The entire course work consists of three large sections: (I) public challenges; (II) private initiatives; and (III) social technologies. This means that the topics of urban finance covered by this course are not only the fundamentals of conventional government finance for public resource allocation, social wealth distribution, and market stabilization (e.g., market failures, public goods, tax policy, intergovernmental transfers, fiscal decentralization, and interjurisdictional coordination) but also the advancements of unconventional corporate, entrepreneurial, and social finance for competitive and sustainable urbanization (e.g., project finance and public-private procurement strategy, international financial markets and institutions, urban climate and green finance, land marketization and land value capture, real estate investment and asset securitization, and financial technology). The course takers are expected to acquire both hard and soft knowledge on urban finance through a few basic analytical exercises and international case studies for broader social applications and cooperative actions across sectors.	Graded	
7	PhD	HASS	02.532	Human-Centered Design for Information Visualization	Designed specifically for the MTD in Human-Centered Design, this course teaches students the concepts and skills for the human-centered design of online information visualization. There are four aspects of this course: ▪A user experience focus on visualization design, emphasizing the needs, contexts, and goals of real audiences. ▪A practical industry perspective, with guest talks from practitioners in data journalism, product design, and data science on how visualizations are used in contemporary professional practice. ▪A technical component on how to create interactive visualizations for the web using HTML, CSS, and JavaScript. ▪An AI-enabled design and coding component, in which students learn to work critically and intentionally with AI tools as collaborators in ideation, prototyping, coding, and refinement. For the technical component, the course uses the building blocks of the web — HTML, CSS, and JavaScript — to create interactive online visualizations. Students also develop fluency in directing AI tools to support both design thinking and technical execution, while maintaining critical judgment over the quality, appropriateness, and human-centered purpose of the work. The course keeps a focus on the entire iterative design workflow throughout the semester and culminates in a project in which a sequence of prototypes leads to a final polished online, interactive data visualization.	Graded	
8	PhD	HASS	02.533	User Experience: Understanding Culture for Design	User experience (UX) is an expanding field and cultural analytics is a core skill-set of UX practice. This course teaches anthropological theories and research methods—including ethnography, empathy, interpretation and semiotics—and how to apply these methods to create human-centered designs that are attuned to culture and cultural difference. Co-developed by an anthropologist and an industry-based design consultant, the course will introduce cutting-edge theories of culture and demonstrate how these theories are being applied in the design, consulting and branding industry today. Cultural difference is a crucial challenge and opportunity for contemporary design, especially in Asia with its vibrant (but also at times conflictual) diversity of cultures, traditions, and religions. Today's cultures are no longer limited to traditional 'national' cultures but extend to organizational, professional, and online cultures. Understanding how users will interpret the meaning of new product designs and incorporate them into ways of life is essential to human-centred design. Yet clichés about culture and cultural difference are not always helpful, suggesting cultural appropriation rather than sensitivity. Rigorous training in the research methods of anthropology—the social science devoted to the understanding of cultural difference—will produce a new generation of human-centered designers able to specify designs for real needs and target iterations for cultural groups.	Graded	
9	PhD	ESD	40.510	Linear Optimization	This course provides an advanced treatment of the area of mathematical optimization known as linear programming. The course starts from fundamentals of linear algebra and then covers the formulation, solution and analysis of linear programs. It also discusses several topics related to linear optimization, such as network algorithms and the network simplex, and integer programming. Equipped with the tools discussed in class, students should be able to write mathematical optimization models for real-world optimal decision making problems, choose an appropriate methodology to solve such models, and analyze their solution.	Graded	
10	PhD	ISTD	61.501	Production-ready Machine Learning	This course is designed to equip students with both foundational machine learning concepts and the practical skills required to deploy, monitor, and manage ML systems in real-world environments. The course begins with core topics including supervised and unsupervised learning, model evaluation, feature engineering, and ensemble methods etc. The second half of the course focuses on the operationalization of ML models to prepare learners for production grade ML roles. Topics include CI/CD for ML workflows, REST API deployment, cloud-based training and inference with AWS SageMaker, real-time data streaming, experiment tracking, and responsible AI practices. The goal is to be able to do end-to-end project development and deployment for ML models.	Graded	
11	PhD	EPD	01.505	Innovation by Design	The focus of this course is the integration of marketing, design, engineering and manufacturing functions in creating and developing a new product, system or service. The course will go through the different phases of designing a new product, system or service and will focus on some of the critical success factors for new product development, with an early emphasis on design thinking. The overall framework of this programme and its accelerated pace will be set by this introductory course, where students will be given a design challenge to complete during the term.	Graded	
12	PhD	EPD	30.522	Materials and Manufacturing Processes Selection in Design	The module intends to equip its participants with a broad understanding of materials and manufacturing processes for application to engineering product design. The successful students will understand the nature and characteristics of broad categories of materials and will understand the range of their application, together with the manufacturing processes that can be used with each material category. Based on the requirements for a specific part or product, the students will be able to use software tools to select the most appropriate material or set of materials, together with the associated manufacturing processes. Students will be able to assess the environmental impact of their decisions.	Graded	
13	PhD	EPD	30.523	Digital Manufacturing	The digitalization of product design and manufacturing, or Industry 4.0, is one of the most important industrial revolutions of the 21st century. The success of Industry 4.0 has been enabled by tools such as cloud computing, machine learning, big data, internet of things, and cyber physical systems. This course will bring an understanding of Industry 4.0 and its revolutionary implications to smart manufacturing, smart products/services and smart cities. Beyond Industry 4.0, digital manufacturing plays an important role in sustainable product design and production. This course will also cover sustainability approaches that include materials and process developments in the field of digital manufacturing technologies.	Graded	
14	PhD	EPD	30.529	Mechanics & Mechanisms	This course focuses on the fundamental engineering principles of kinematics and kinetics for the design of mechanisms. These include kinematics, dynamics of three-dimensional rigid motions, and how they can be applied for synthesizing and analyzing serial and parallel planar, spherical, and spatial linkage mechanisms using computer-aided design tools.	Graded	

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15	PhD	EPD	30.530	Modelling & Control	Modelling & Control is a captivating course that delves into the intricate realm of dynamic systems and their behaviour over time. From understanding the fundamental principles of feedback loops to exploring the complexities of interconnected components, students embark on a journey to grasp the dynamics that govern various engineering systems. The course not only equips learners with analytical tools like differential equations, state-space, and Laplace transforms but also encourages the application of these tools to solve real-world engineering problems. As students navigate through this hands-on course, they gain valuable insights into modelling, simulation, and control strategies, fostering a holistic understanding of dynamic systems. This course is not just about equations; it's about deciphering the dance of variables and interactions that define the dynamic nature of engineering systems, making it an essential and intellectually stimulating experience for aspiring engineers. [TECHNICAL] Lumped parameter mathematical modelling and analysis of continuous-time systems in various physical domains using differential equations, state-space and transfer function approaches. Employing the use of the Laplace Transform to analyse linear time-invariant (LTI) systems for synthesis and design of automatic feedback controllers. Building on the concepts of controllability and observability and state-space canonical forms to formulate, synthesize and design state observers, pole-placement controllers and advanced modern controllers.	Graded	
16	PhD	ISTD	51.501	Computer Networks – Professional	Introductory graduate-level course in computer networking. The course covers core concepts and major design and implementation techniques for large-scale computer networks at the application, transport, network, and data link layers, as well as network security across these layers. It emphasizes the Internet as an open, decentralized, and interoperable infrastructure. The course may also cover selected current and advanced topics in computer network design and research.	Graded	
17	PhD	ISTD	51.505	Foundations of Cybersecurity – Professional	This course provides students with a basic appreciation and understanding of the core concepts of information security: concepts for confidentiality, integrity and availability; information flow properties and access control, cryptographic primitives such as symmetric and asymmetric cryptography, cryptanalysis; core problems such as random number generation, entropy, and key distribution; and common attacker models. In addition, advanced concepts such as secure multiparty computations, electronic voting schemes and privacy enhancing technologies will be introduced.	Graded	
18	PhD	ISTD	51.510	Blockchain Systems and Applications	Blockchain, as the backbone technology of the current popular digital currency, has become a promising decentralized framework for secure data processing, sharing, and management in trustless open-access networks. Due to its promise of immutability, consistency, integrity, and authenticity of record-keeping in decentralized operating environments, blockchain has been applied into many real-world applications beyond financial sector. This course aims to introduce you to the core technical concepts of distributed consensus, public distributed ledgers, blockchain basics and mechanisms, smart contracts, in addition to some selected practical topics about anonymity, security, privacy, and scalability issues in modern blockchain	Graded	
19	PhD	SMT	99.505	Semiconductor Device Technology and Design: Silicon and beyond	The course introduces semiconductor device physics models such as pn-junction diode, MOSFET working mechanisms and CMOS application to establish the foundations on microelectronic device physics. The course also explores the limitation of conventional transistor architecture and the bottleneck caused in terms of operation frequency and power density. The course then studies the architecture and evolution of field effect transistor, the present and future technologies in terms of design and materials for the device.	Graded	