ADVISORY ON COVID-19

ENTRY INTO SINGAPORE

Entry into Singapore is subjected to approval by Immigration and Checkpoints Authority (ICA) and Ministry of Education (MOE).

As an additional precautionary measure to minimize the risk of imported cases of COVID-19, all travelers (including long-term pass/In-Principle Approval (IPA) or student pass holders) will be issued with up to 14 days Stay-Home Notice (SHN) at dedicated facilities and COVID-19 test. Cost (up to SGD2,200) to such measures are to be borne by the student.

Students are required to go through the information on the safetravel website carefully and comply to all measures before and when entering Singapore.

Find out more at https://safetravel.ica.gov.sg/stpl/requirements-and-process

A guide and any updated information will be sent when applications are open.

COVID-19 MEASURES AT SUTD

As per MOE advisory, students will return to campus for practical and lab sessions, with a maximum of 50 persons per class. Larger scale classes are to be held online. While we expect these measures to be relaxed later when the situation improves, it may still be in force in 2021.

In SUTD, we are gradually bringing students back on campus with a hybrid model for pillar subjects (EPD, ESD, ISTD, ASD) where they will have both online and physical lessons. HASS subjects may still be conducted online fully in 2021.

With limitations in class sizes, we would like to pre-empt students that there may be limited capacity for classes. It is highly recommended that students select additional subjects in order of preference during exchange application.

Find out more at sutd.edu.sg/advisory
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SINGAPORE
YOUR IDEAL EXCHANGE DESTINATION

ENGLISH SPEAKING

GATEWAY TO SOUTH EAST ASIA

GLOBAL EDUCATION

CONVENIENT TRANSPORTATION

CLEAN, GREEN AND SAFE

ROBUST ECONOMY

CULTURAL MELTING POT

FOOD PARADISE
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 multi-disciplinary curriculum and research. SUTD was established in collaboration with 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!
01 MOUNT SUTD
8 daredevil climbers from SUTD Mountaineering Club claimed a 6056m virgin peak in Indian Himalayas (in comparison, Mount Everest stands 8848m tall). This makes SUTD the only university in Singapore to officially ‘have a mountain to our name’!

02 THE FAB LAB
Fab is both Fabrication (officially) and Fabulous (unofficially). Students have full access to this makerspace and its world-class arsenal of 3D printers, CNC milling machines, waterjets, metal and woodwork machines, and many more. Here you will find students creating virtually anything and realising their ideas!

03 CNY LIGHT-UP
Since 2012, SUTD students have brightened up the streets of Chinatown with their light installations, ranging from a 108m-long dragon to a 10m-tall, 400kg horse and a rooster designed with more than 5,500 lanterns.

04 MASTERPIECES IN SUTD
As you walk the campus grounds, try locating the four antique Chinese buildings donated by Jackie Chan! Bonus points if you find the 2.7m bronze Beethoven sculpture cast by German artist Markus Lüpertz and the 8-metre Pioneer Wall by Japanese artist Tomoyuki Kambe.

05 START-UP CULTURE
SUTD alumni have been busy making their mark in the local start-up scene! Some success stories include (these)abilities, a company designing everyday products for Persons with Disabilities; Codomo, an education start-up imparting design innovation know-how to aspiring youth; and Team Homage, an online platform delivering certified care to meet growing in-house care needs.
The university environment is really nice and the way the course are thought is really innovative and up-to-date. If you’re looking for a warm temperature all year long, definitely consider doing an exchange here.

Zaccaria Di Giorgio, University of Twente, The Netherlands

Besides the academic works, we also explored Singapore and other countries in Southeast Asia together. It was an interesting and memorable experiences for me to have a trip with lots of friends from different countries. I never knew I would be able to meet so many friends from all over the world!

Yang Tzu-Hsuan, National Taiwan University

SUTD is unique due to the interactive atmosphere and the many project work to test our application of the subject. These hands-on experience strengthen our problem-solving skills and better prepare us for challenges in workplace.

Ronald Shek, Hong Kong University of Science and Technology

I am emerging from this summer with a clear goal and tangible career path that I am passionate about and want to actively pursue. For the first time, I feel like I have a decisive direction for my life, and this exchange was like the compass showing me the way.

Rachael Boyle, UC Berkeley, USA

I was able to get involved with a group of futurist thinkers whom I learned the importance of pursuing technological innovation with knowledge of social, economic and political issues that plague the world.

Ganesh Chandrasekaran, University of Maryland, USA

One of the best thing about SUTD is that they have a lot of projects throughout the term, which is great as I get to implement the theories I’ve learnt during the lessons.

Madeleine Berner, KTH Royal Institute of Technology, Sweden

Find out more at: @SUTDGlobal #SUTDexchange SUTDsingapore wearesutd blog
PILLARS / CLUSTER

**EPD**
**ENGINEERING PRODUCT DEVELOPMENT**
EPD prepares you for the leadership in conception, design, implementation and operation of innovative technology-intensive products.

**ESD**
**ENGINEERING SYSTEMS AND DESIGN**
ESD prepares you for the design, analysis, optimisation and management of large-scale complex systems.

**ISTD**
**INFORMATION SYSTEMS AND TECHNOLOGY DESIGN**
ISTD prepares you to design integrated software/hardware systems that interact with humans and machines.

**ASD**
**ARCHITECTURE AND SUSTAINABLE DESIGN**
ASD prepares you for future needs of architecture in a digital era - ecological urban architecture, designing smart cities with big data, advanced design computation, digital fabrication etc.

**HASS**
**HUMANITIES, ARTS AND SOCIAL SCIENCES**
HASS helps you acquire capacity for self-reflection and critical thinking in order to nurture leaders deeply aware of the social role and impacts of innovation in the fields of technology and design.
INTERNATIONAL UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAMME (iUROP)

iUROP helps to promote a vibrant and diverse research culture by providing opportunities for faculty and students from SUTD and overseas universities to work together on research projects.

Students get a chance to participate in phases of standard research activity: developing research plans, writing proposals, conducting research, analyzing data and presenting research results in oral and written form. Besides immersing in SUTD’s rich research culture, exchange students get the chance to gain multicultural and interdisciplinary design perspectives.

Exchange students can opt for part-time research iUROP Lite, iUROP Mezzo, iUROP Meta or full time research iUROP Max.

SUTD recommends that exchange students spend at least 12 hours per week for iUROP Lite and iUROP Mezzo, 24 hours per week for iUROP Meta and 48 hours per week for iUROP Max. The exact number of hours depends on the project duration (10 or 12-week project), project nature, students’ progress and arrangement with project supervisor, as well as students’ own time management.

<table>
<thead>
<tr>
<th>iUROP</th>
<th>Credits</th>
<th>Term Offered</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>iUROP Lite</td>
<td>No</td>
<td>Spring, Summer and Fall</td>
<td>A certificate of iUROP participation subject to recommendation of project supervisor</td>
</tr>
<tr>
<td>iUROP Mezzo</td>
<td>Yes (12 credits)</td>
<td>Spring, Summer and Fall</td>
<td>Typically taken with other coursework; 12 credits upon successful completion of the project with a Pass grade</td>
</tr>
<tr>
<td>iUROP Meta</td>
<td>Yes (24 credits)</td>
<td>Spring, Summer and Fall</td>
<td>Typically taken with other coursework; 24 credits upon successful completion of the project with a Pass grade</td>
</tr>
<tr>
<td>iUROP Max</td>
<td>Yes (48 credits)</td>
<td>Summer only</td>
<td>Typically taken as a full-time research; 48 credits upon successful completion of the project with a Pass grade</td>
</tr>
</tbody>
</table>

Find out more at sutd.edu.sg/iUROP
MORE THAN 100 FIFTH ROW STUDENT ORGANISATIONS TO JOIN!

Fifth row is what we call co-curricular activities at SUTD because it is the fifth activity students do every term in addition to their four academic subjects.

Find out more at sutd.edu.sg/campus-life/student-life/student-organisations

DEDICATED TIME TO PURSUE YOUR INTERESTS

There are no classes every Wednesday and Friday afternoon.

Find out what SUTD students do during their free time! wearesutd.edu.sg
STATE OF THE ART
CAMPUS & FACILITIES

Campus Centre
Library & Materials Collection
Library Discussion Booth
Sports & Recreational Centre
Olympic-Sized Swimming Pool
Multi-Purpose Court
Cafeteria
Interactive Cohort Classroom
Fabrication Laboratory

Find out more at
sutd.edu.sg/Campus-Life/Sports-and-Recreation-Centre
sutd.edu.sg/Campus-Life/F-B
sutd.edu.sg/Education/Academic-Facilities
mylibrary.sutd.edu.sg
# UNDERGRADUATE ACADEMIC CALENDAR

<table>
<thead>
<tr>
<th>SPRING TERM</th>
<th>SUMMER TERM</th>
<th>FALL TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td>End January to End April</td>
<td>Mid-May to Mid-August</td>
<td>Early-September to Mid-December</td>
</tr>
<tr>
<td>TERM 3 (2)</td>
<td>SUMMER BREAK</td>
<td>TERM 2 (1)</td>
</tr>
<tr>
<td>TERM 5 (4)</td>
<td>SUMMER BREAK (5)</td>
<td>TERM 4 (3)</td>
</tr>
<tr>
<td>TERM 7 (6)</td>
<td>TERM 8</td>
<td>TERM 6 (BREAK)</td>
</tr>
<tr>
<td>(TERM 8)</td>
<td></td>
<td>(TERM 7)</td>
</tr>
</tbody>
</table>

(New calendar) SUTD is shifting the start of academic year from Summer to Fall term. There will be an overlap between the original and new calendars until we are fully transitioned in 2023.

Find out more at [sutd.edu.sg/academic_calendar-aspx](https://sutd.edu.sg/academic_calendar-aspx)
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)

GRADING SYSTEM

SUTD uses a 5-point grading system as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Point</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>5.30</td>
<td>Exceptional performance</td>
</tr>
<tr>
<td>A</td>
<td>5.00</td>
<td>Excellent performance</td>
</tr>
<tr>
<td>A-</td>
<td>4.50</td>
<td>Excellent performance in most aspects</td>
</tr>
<tr>
<td>B+</td>
<td>4.00</td>
<td>Very good performance</td>
</tr>
<tr>
<td>B</td>
<td>3.50</td>
<td>Very good performance in most aspects</td>
</tr>
<tr>
<td>B-</td>
<td>3.00</td>
<td>Good performance</td>
</tr>
<tr>
<td>C+</td>
<td>2.50</td>
<td>Fairly good performance</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
<td>Satisfactory performance</td>
</tr>
<tr>
<td>D+</td>
<td>1.50</td>
<td>Improvement needed</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
<td>Minimally acceptable performance with much improvement needed</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
<td>Fail</td>
</tr>
</tbody>
</table>

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
### ACADEMIC EXCHANGE TIMELINE

SUTD currently offers the Spring, Summer and Fall Terms for academic study by exchange students from partner universities. (Dates may be subjected to change)

<table>
<thead>
<tr>
<th>SPRING</th>
<th>SUMMER</th>
<th>FALL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early July</td>
<td>Early December</td>
<td>Early March</td>
</tr>
<tr>
<td>Mid-July</td>
<td>Mid-December</td>
<td>Mid-March</td>
</tr>
<tr>
<td>End October</td>
<td>Early February</td>
<td>Mid-June</td>
</tr>
<tr>
<td>Early November</td>
<td>Mid-February</td>
<td>End June</td>
</tr>
<tr>
<td>End November</td>
<td>End February</td>
<td>Mid-July</td>
</tr>
<tr>
<td>End November</td>
<td>Mid-April</td>
<td>Mid-July</td>
</tr>
<tr>
<td>Mid-December</td>
<td>Mid-April</td>
<td>End August</td>
</tr>
<tr>
<td>End January</td>
<td>Mid-May</td>
<td>Early September</td>
</tr>
<tr>
<td>End April</td>
<td>Mid-August</td>
<td>Mid-December</td>
</tr>
</tbody>
</table>

- **Nomination By Home University**
- **Application For Exchange at SUTD**
- **Offer of Exchange**
- **Acceptance of Offer of Exchange**
- **Student Pass Application via SOLAR**
- **SUTD Hostel Application**
- **iUROP Application**
- **Online Matriculation via OMEx**
- **Matriculation and Orientation**
- **Start of Term**
- **End of Term**
**RESEARCH EXCHANGE TIMELINE (iUROP MAX)**

SUTD offers Summer Term (10 or 12 weeks) for full-time research (iUROP Max) by exchange students from partner universities. (Dates may be subjected to change)

<table>
<thead>
<tr>
<th>10 WEEKS</th>
<th>12 WEEKS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Early December</strong></td>
<td><strong>Early December</strong></td>
</tr>
<tr>
<td><strong>Mid-December</strong></td>
<td><strong>Mid-December</strong></td>
</tr>
<tr>
<td><strong>Early February</strong></td>
<td><strong>Early February</strong></td>
</tr>
<tr>
<td><strong>Mid-February</strong></td>
<td><strong>Mid-February</strong></td>
</tr>
<tr>
<td><strong>End February</strong></td>
<td><strong>End February</strong></td>
</tr>
<tr>
<td><strong>Mid April</strong></td>
<td><strong>Mid April</strong></td>
</tr>
<tr>
<td><strong>Mid Apr</strong></td>
<td><strong>Mid Apr</strong></td>
</tr>
<tr>
<td><strong>Early June</strong></td>
<td><strong>Mid May</strong></td>
</tr>
<tr>
<td><strong>Early June</strong></td>
<td><strong>Mid May</strong></td>
</tr>
<tr>
<td><strong>End June</strong></td>
<td><strong>Early July</strong></td>
</tr>
<tr>
<td><strong>Mid-August</strong></td>
<td><strong>Mid-August</strong></td>
</tr>
</tbody>
</table>
### COST OF EXCHANGE

#### COMPULSORY MISCELLANEOUS FEES (CMF)*
(Payable to SUTD)

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>SGD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health &amp; Insurance</td>
<td></td>
</tr>
<tr>
<td>Student Activities &amp; Services</td>
<td></td>
</tr>
<tr>
<td>IT Facilities and Academic Related Services</td>
<td></td>
</tr>
<tr>
<td>Sport Facilities</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$211.00</strong></td>
</tr>
</tbody>
</table>

#### OTHER COST OF LIVING
(Estimated monthly expenses, varies according to personal needs and lifestyle)

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>SGD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accommodation</td>
<td>$500 to $1,200</td>
</tr>
<tr>
<td>Meals</td>
<td>$300 to $500</td>
</tr>
<tr>
<td>Personal Expenses</td>
<td>$200 to $400</td>
</tr>
<tr>
<td>Transportation within Singapore</td>
<td>$100 to $300</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$1,100 to $2,400</strong></td>
</tr>
</tbody>
</table>

* Exchange students holding Student’s Pass are not allow to work in Singapore.

#### STUDENT PASS FEES*
(Payable to Immigration & Checkpoints Authority of Singapore)

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>SGD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing Fee for Student Pass Application</td>
<td>$30.00</td>
</tr>
<tr>
<td>Issuance Fee for Student Pass Collection</td>
<td>$60.00</td>
</tr>
<tr>
<td>Multiple-Entry Visa Fee for Visa Required Nationals</td>
<td>$30.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$90 to $120</strong></td>
</tr>
</tbody>
</table>

* Fees and rates are subjected to change, please refer to the website for updated information.

#### SUTD STUDENT INSURANCE

During your stay in SUTD (from Matriculation Day to end of Term), you will be covered by the SUTD Student Insurance Scheme (policy under NTUC Income).

Please refer to [mycg.com.sg/sutd](http://mycg.com.sg/sutd) (recommended to use Google Chrome for optimised viewing) for more details on insurance coverage, the list of Panel Clinics you can visit if you feel unwell, and the procedures you need to complete if you require hospitalisation.

We highly recommend students to purchase travel insurance with additional cover for COVID-19 to augment the coverage of the SUTD insurance. You would need to make your own arrangement for travel insurance coverage should you intend to extend your stay in Singapore beyond the end of Term.
EXCHANGE SCHOLARSHIPS

TEMASEK FOUNDATION LEADERSHIP ENRICHMENT AND REGIONAL NETWORKING (TF LEaRN) PROGRAMME
• Open to Asian Partner Universities
• Available for Fall Academic Exchange
• Award Quantum of SGD 6,500
• Find out more at sutd.edu.sg/Global/Exchange-Scholarships-and-Awards/Temasek-Foundation-International-Leadership-Enrich

ASEM DUO-SINGAPORE EXCHANGE FELLOWSHIP AWARD
• Open to European Partner Universities
• Available for Fall Academic Exchange
• Award Quantum of EURO 4,000
• Find out more at sutd.edu.sg/Global/Exchange-Scholarships-and-Awards/ASEM-DUO-Singapore-Exchange-Fellowship

US-SINGAPORE SUMMER EXCHANGE SCHOLARSHIP
• Open to American Partner Universities
• Available for Summer Research Exchange
• Award Quantum of up to SGD 10,000
• Find out more at sutd.edu.sg/Global/Exchange-Scholarships-and-Awards/US-Singapore-Summer-Exchange-Scholarship
ELIGIBILITY

Students nominated by SUTD’s partner universities are eligible to enjoy tuition fee waivers for exchange at SUTD.

Students need to ensure that they are capable of going through an academic/research term with subjects/projects delivered in English.

SUBJECT CREDITS

Academic exchange students are required to take a minimum of 24 subject credits (to be issued with a Student Pass in Singapore) or a maximum of 48 subject credits during your term of exchange.

Research exchange students taking Summer iUROP Max will be awarded 48 credits upon successful completion with a Pass grade.

HOST PILLAR

Academic exchange students are required to choose a Host Pillar, with at least 50% of their total subject credits from their Host Pillar of choice.

Research exchange students will undertake one Summer iUROP Max project under the supervision of SUTD faculty.

As the allocation of subject(s)/project is subjected to availability and fulfilment of the pre-requisites, you may not be given your preferred choice of subjects/project to take during your exchange. Hence, you are required to select additional subjects/projects in your order of preference during exchange application.

SUBJECT/PROJECT

For Academic Exchange

Only EPD, ESD, ISTD and HASS subjects are open to all exchange students. ASD subjects are only open to exchange students from Zhejiang University, Aalto University, Chulalongkorn University, Feng Chia University, IE University and University of Seoul. All subjects are taught in English.

Please refer to the Annexes for the subjects offered in Spring, Summer and Fall Terms. The list is subjected to changes annually, and places in each subject might be limited.

For Research Exchange

The list of Summer iUROP Max projects differ from year to year, and will be ready 1 month before application. Please refer to the Annexes for past year’s projects.
ACCOMMODATION

ON-CAMPUS ACCOMMODATION AT SUTD HOSTEL 6°

Housing spaces at SUTD Hostel are limited and subject to availability. Application for SUTD Hostel (non-graduating) will be made through SUTD Housing Portal. SUTD will inform you on the procedures via email when the portal is open for application.

Find out more at sutd.edu.sg/Campus-Life/Housing/Non-graduating

OFF-CAMPUS ACCOMMODATION

Housing spaces are limited at SUTD Hostel, it is highly advisable for exchange students to source for off-campus accommodation. You may refer to the website below for a list of off-campus accommodation options.

Find out more at sutd.edu.sg/Campus-Life/Housing/Off-campus-Accommodation

DO YOU KNOW?

Right at SUTD’s doorstep, the Upper Changi MRT Station turns operational in October 2017, providing greater accessibility all over Singapore.
Application through SOLAR system

All international students must hold a valid Student Pass issued by the Singapore Immigration & Checkpoints Authority (ICA) for their studies at SUTD. Generally, international students studying in SUTD are granted Student Pass for the full duration of the exchange period.

Application for Student Pass is to be made through the ICA Student Pass On-Line Application & Registration (SOLAR) system. SUTD will inform you via email when the SOLAR system is open for application. You are required to login to SOLAR to complete the application, submit eForm16 and make payment of SGD30.00 for the non-refundable processing fee for Student Pass application.

Issuance of In Principal Approval (IPA) Letter

After submitting your application, print out the electronic form eForm16 and bring it to Singapore, together with the In Principal Approval (IPA) Letter which will be emailed to you when your application is approved. For students who require a visa to enter Singapore, a visa will be incorporated in the IPA letter. Students need not apply for a separate visa and may enter Singapore by producing the IPA letter at the customs.

Making Appointment with ICA

After receiving your IPA letter, login to SOLAR system to make payment of SGD60.00 for issuance fee and SGD30.00 for multiple-journey visa (where applicable) and to make an appointment with ICA for completion of formalities for the issuance of your Student Pass.

Student Pass Collection Upon Arrival in Singapore

Upon arrival in Singapore, report to ICA on your appointment day for completion of formalities for the issuance of your Student Pass. More information will be provided in the SUTD Handbook emailed to you upon exchange offer.

Cancellation / Returning of Student Pass

International students are required to surrender their Student Passes for cancellation within 7 days from the date of cessation or termination of their study. SUTD will assist in the cancellation towards the end of your exchange and you will need to return your Student Pass to Office of International Relations. You will receive a cancellation letter to be presented to the Immigration Officer when you leave Singapore. Once the Student Pass has been cancelled, you will need to apply for the relevant pass/visa if you wish to re-enter Singapore.
SUTD only accepts inbound exchange application from students nominated by SUTD’s partner universities.

Nominated students are required to prepare the following supporting documents for inbound exchange application via the online portal.

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>SPECIFICATION</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PASSPORT PARTICULARS PAGE</strong></td>
<td>Colour scanned copy, in pdf format, max 5 MB</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Please ensure that your passport has a validity of at least 6 months - from the date of departure from Singapore back to your home country.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LATEST OFFICIAL ACADEMIC TRANSCRIPT(S)</strong></td>
<td>Colour scanned copy, in pdf format, max 5 MB</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Issued by your home university with an explanation of the grading system. English translated transcript is required if your home university is a non-English medium university.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOEFL/IELTS SCORE</strong></td>
<td>Colour scanned copy, in pdf format, max 5 MB</td>
<td>Mandatory only for Zhejiang University students Optional for students from all other universities</td>
</tr>
<tr>
<td>If there are applicable results</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Students from China Universities who do not have TOEFL/IELTS score, please provide your CET 4 or CET 6 score.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>OFFICIAL NOMINATION LETTER</strong></td>
<td>In pdf format, max 5 MB</td>
<td>Mandatory only for students from EU universities</td>
</tr>
<tr>
<td>For students from EU Universities. Issued by your home university with official university logo and signature.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ARCHITECTURE PORTFOLIO</strong></td>
<td>In pdf format, max 5 MB</td>
<td>Mandatory only for students selecting ASD subjects</td>
</tr>
<tr>
<td>For students who wish to read ASD subjects.</td>
<td></td>
<td></td>
</tr>
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## USEFUL WEBSITES

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<td>SUTD Curriculum</td>
<td>sutd.edu.sg/Education/Unique-Academic-Structure</td>
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<td>Academic Calendar</td>
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<td>Engineering Product Development Pillar</td>
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<td>esd.sutd.edu.sg</td>
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<td>Information Systems Technology and Design Pillar</td>
<td>istd.sutd.edu.sg</td>
</tr>
<tr>
<td>Architecture and Sustainable and Design Pillar</td>
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<tr>
<td>Humanities, Arts and Social Sciences Cluster</td>
<td>hass.sutd.edu.sg</td>
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<td>International Undergraduate Research Opportunities (iUROP)</td>
<td>sutd.edu.sg/iurop</td>
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<td>sutd.edu.sg/Campus-Life/Student-Life/Student-Organisations</td>
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<td>SUTD Health &amp; Insurance</td>
<td>mycg.com.sg/sutd</td>
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<td>mylibrary.sutd.edu.sg</td>
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<td>Immigration &amp; Checkpoints Authority (ICA)</td>
<td>ica.gov.sg</td>
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<td>Singapore Visitor’s Guide</td>
<td>visitors.sg</td>
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<tr>
<td>Singapore Map &amp; Street Directory</td>
<td>streetdirectory.com</td>
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<tr>
<td>Singapore Transport Services</td>
<td>lta.gov.sg/content/ltaweb/en/public-transport.html</td>
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<td>nea.gov.sg/weather</td>
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<td>Singapore Public Holidays</td>
<td>mom.gov.sg/employment-practices/public-holidays</td>
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### ANNEX A: SPRING TERM 2021 SUBJECTS

#### ENGINEERING PRODUCT DEVELOPMENT PILLAR (EPD)

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<thead>
<tr>
<th>UG / PhD</th>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Subject Credits</th>
<th>Subject Instructor</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
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<tbody>
<tr>
<td>UG</td>
<td>30.007</td>
<td>Engineering Design Innovation</td>
<td>12</td>
<td>Pablo Valdivia, Subburaj Karupppasamy</td>
<td>5</td>
<td>03.007 Introduction to Design, 10.008 Engineering in the Physical World, 10.009 The Digital World, Subject Co-Requisite: 30.101 Systems &amp; Control (Students who have not taken this subject 30.101 previously will be required to take the subject during exchange term, subjected to fulfillment of the subject pre-requisites 30.002 and 10.007)</td>
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<td>UG</td>
<td>30.101</td>
<td>Systems &amp; Control</td>
<td>12</td>
<td>Foong Shaohui, Roland Bouffanais</td>
<td>5</td>
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<td>UG</td>
<td>30.102</td>
<td>Electromagnetics &amp; Applications</td>
<td>12</td>
<td>Huang Shaoying</td>
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<td>10.001 Advanced Mathematics I, 10.002 Physics I, 10.004 Advanced Mathematics II, 10.005 Physics II</td>
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<td>UG</td>
<td>30.103</td>
<td>Fluid Mechanics</td>
<td>12</td>
<td>Michinoa Hashimoto, Roland Bouffanais</td>
<td>5</td>
<td>10.002 Physics I, 10.004 Advanced Mathematics II, 03.007 Introduction to Design, 10.008 Engineering in the Physical World</td>
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<td>Design &amp; Fabrication of Microelectromechanical Systems</td>
<td>12</td>
<td>Tan Mei Chee</td>
<td>7</td>
<td>10.008 Engineering in the Physical World OR 30.001 Structures &amp; Materials</td>
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<td>30.114</td>
<td>Advanced Feedback &amp; Control</td>
<td>12</td>
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<td>Optical Engineering and Communications</td>
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<td>Dawn Tan</td>
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<td>Physics 2, 30.002 Circuit &amp; Electronics, 30.007 Engineering Design Innovation, 30.101 Systems &amp; Control</td>
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The list is subjected to changes annually, and places in each subject might be limited.

**EPD UG Subject Description:**
[epd.sutd.edu.sg/education/undergraduate/undergraduate-courses]

**EPD PhD Subject Description:**
[epd.sutd.edu.sg/education/graduate/courses]
## ANNEX A:
### SPRING TERM 2021 SUBJECTS

### ENGINEERING SYSTEMS AND DESIGN PILLAR (ESD)

<table>
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<tr>
<th>UG / PhD</th>
<th>Subject Code</th>
<th>Subject Title</th>
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<th>Subject Instructor</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
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<tr>
<td>UG</td>
<td>01.104</td>
<td>Networked Life</td>
<td>12</td>
<td>Costas Courcoubetis</td>
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<td>10.007 Modelling The Systems World</td>
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<td>UG</td>
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<td>Urban Transportation</td>
<td>12</td>
<td>Lynette Cheah</td>
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<td>UG</td>
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<td>Manufacturing and Service Operations</td>
<td>12</td>
<td>Shrutivandana Sharma</td>
<td>5</td>
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<td>Airport Systems Modelling and Simulation</td>
<td>12</td>
<td>Nuno Ribeiro</td>
<td>7</td>
<td>40.002 Optimisation; 40.015 Simulation Modeling and Analysis; 40.320 Airport Systems Planning and Design</td>
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The list is subjected to changes annually, and places in each subject might be limited.

**ESD UG Subject Description:**
esd.sutd.edu.sg/academics/undergraduate-program/course-schedule

**ESD PhD Subject Description:**
esd.sutd.edu.sg/academics/phd-programme/courses
### INFORMATION SYSTEMS AND TECHNOLOGY DESIGN PILLAR (ISTD)

#### Annex A: Spring Term 2021 Subjects

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<th>UG / PhD</th>
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<th>Subject Instructor</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
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<td>UG</td>
<td>50.006</td>
<td>User Interface Design &amp; Implementation</td>
<td>12</td>
<td>Peng Song</td>
<td>7</td>
<td>10.009 The Digital World</td>
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<td>UG</td>
<td>50.020</td>
<td>Network Security</td>
<td>12</td>
<td>Bin Bin Chen</td>
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<td>50.042 Foundations of Cybersecurity</td>
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<tr>
<td>UG</td>
<td>50.037</td>
<td>Blockchain Technology</td>
<td>12</td>
<td>Pawel Szalachowski</td>
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<td>The course assumes a basic familiarity with computer programming and knowledge of the Python language.</td>
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<td>50.039</td>
<td>Theory and Practice of Deep Learning</td>
<td>12</td>
<td>Alexander Binder</td>
<td>7</td>
<td>01.112 Machine Learning/ 01.113 Statistical &amp; Machine Learning (ESD)</td>
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<td>UG</td>
<td>50.041</td>
<td>Distributed Computing and Systems</td>
<td>12</td>
<td>Sudipta Chattopadhyay</td>
<td>7</td>
<td>50.004 Introduction to Algorithms or consultation with the instructor</td>
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The list is subjected to changes annually, and places in each subject might be limited.

**ISTD UG Subject Description:**
istd.sutd.edu.sg/undergraduate/course-schedule

**ISTD PhD Subject Description:**
istd.sutd.edu.sg/education/mssd/course-catalogue
### ANNEX A: SPRING TERM 2021 SUBJECTS

**ARCHITECTURE AND SUSTAINABLE DESIGN PILLAR (ASD)**

<table>
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<th>Term</th>
<th>Subject Pre-requisites</th>
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<td>20.101 Architecture Core Studio 1</td>
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<tr>
<td>UG</td>
<td>20.212</td>
<td>Digital Design &amp; Fabrication</td>
<td>9</td>
<td>Stylianos Ditsas</td>
<td>5</td>
<td>20.211 Introduction to Design Computation</td>
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<tr>
<td>UG</td>
<td>20.103</td>
<td>Architecture Core Studio 3</td>
<td>18</td>
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<td>20.101 Architecture Core Studio 1, 20.102 Architecture Core Studio 2</td>
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<td>UG</td>
<td>20.213</td>
<td>Building Information Modelling</td>
<td>9</td>
<td>TBC</td>
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<td>20.211 Introduction to Design Computation 20.212 Digital Design and Fabrication</td>
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ASD subjects are currently available only to students from Zhejiang University, Aalto University, Chulalongkorn University, Feng Chia University and IE University.

The list is subjected to changes annually, and places in each subject might be limited.

**ASD UG Subject Description:**
[asd.sutd.edu.sg/programme/undergraduate-courses](http://asd.sutd.edu.sg/programme/undergraduate-courses)
### ANNEX A:
### SPRING TERM 2021 SUBJECTS

**HUMANITIES, ARTS AND SOCIAL SCIENCES CLUSTER (HASS)**

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<td>02.218</td>
<td>Introduction to Psychology</td>
<td>12</td>
<td>Yow Wei Quin</td>
<td>5 &amp; 7</td>
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<tr>
<td>UG</td>
<td>02.202</td>
<td>Organizational Processes</td>
<td>12</td>
<td>Grace Dixon</td>
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<td>NIL</td>
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<tr>
<td>UG</td>
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<td>Critical Management Studies</td>
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<td>UG</td>
<td>02.230</td>
<td>Health Communication and Behaviour Change</td>
<td>12</td>
<td>Andrew Yee</td>
<td>5 &amp; 7</td>
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<td>NEW</td>
<td>Celluloid Cities Framing Modern Southeast Asian History</td>
<td>12</td>
<td>Sandeep Ray, Samson Lim</td>
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<td>UG</td>
<td>02.105DH</td>
<td>Sages through the Ages</td>
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<td>Alastair Gornall</td>
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<td>02.228</td>
<td>Design in the Anthropocene</td>
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<td>Jeffrey Chan</td>
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<td>Ideal Innovations? Science Fiction &amp; the Ethics of Technology</td>
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<td>Nazry Bahrawi</td>
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<td>12</td>
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<td>UG</td>
<td>NEW</td>
<td>1965: Upheaval in Southeast Asia</td>
<td>12</td>
<td>Sandeep Ray</td>
<td>5 &amp; 7</td>
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<td>Cultures and Histories of the Digital</td>
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<td>Environmental Humanities</td>
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<td>UG</td>
<td>02.231</td>
<td>Transportation Policy and Technology in Urban Progress</td>
<td>12</td>
<td>Jin Murakami</td>
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<td>Rice Cultures: Technology, Society, and Environment in Asia</td>
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<td>Lyle Fearnley</td>
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<td>History of Traditional Chinese Short Fiction</td>
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<td>Zhao Zhenxing</td>
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<td>UG</td>
<td>02.220TS</td>
<td>&quot;How the Things People Make, Make People&quot;: Material Things in Social Life</td>
<td>12</td>
<td>Gabriel Tusinski</td>
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<td>Global Shakespeares</td>
<td>12</td>
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<td>UG</td>
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<td>Lyric Poetry</td>
<td>12</td>
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<td>Geographies of Money and Finance</td>
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The list is subjected to changes annually, and places in each HASS subject are very limited.

**HASS Subject Description:**
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<th>Term</th>
<th>Subject Pre-requisites</th>
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<td>Tan U-Xuan</td>
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<td>• 10.009 Digital World</td>
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<td>• 10.002 Physics 1</td>
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<td>Micro-Nano Projects Laboratory</td>
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<td>Hong Yee Low</td>
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<td>Yuen Chau</td>
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<td>12</td>
<td>Teo Tee Hui</td>
<td>8</td>
<td>• MATH 101, 201, 301</td>
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<td>Yang Hui Ying</td>
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<td>• 30.001 Structures &amp; Materials</td>
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<td>• 30.108 Materials Science</td>
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The list is subjected to changes annually, and places in each subject might be limited.

EPD UG Subject Description: epd.sutd.edu.sg/education/undergraduate/undergraduate-courses

EPD PhD Subject Description: epd.sutd.edu.sg/education/graduate/courses
### ANNEX B: SUMMER TERM 2021 SUBJECTS

#### ENGINEERING SYSTEMS AND DESIGN PILLAR (ESD)

<table>
<thead>
<tr>
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<th>Subject Code</th>
<th>Subject Title</th>
<th>Subject Credits</th>
<th>Subject Instructor</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG</td>
<td>01.102</td>
<td>Energy Systems and Management</td>
<td>12</td>
<td>Nilesh Yuvraj Jadhav</td>
<td>8</td>
<td>• 10.007 Modelling The Systems World</td>
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<td>• 10.004 Advanced Math II</td>
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<tr>
<td>UG</td>
<td>40.316</td>
<td>Game Theory</td>
<td>12</td>
<td>Georgios Piliouras, DUAN Lingjie</td>
<td>8</td>
<td>• 10.007 Modelling The Systems World</td>
</tr>
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<td>• 10.004 Advanced Math II</td>
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<td>• 40.001 Probability (or 30.003/50.034 Introduction to Probability and Statistics)</td>
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<tr>
<td>UG</td>
<td>40.318</td>
<td>Supply Chain Digitalisation and Design</td>
<td>12</td>
<td>Ying Xu</td>
<td>8</td>
<td>• 40.001 Probability</td>
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<td>• 40.002 Optimisation</td>
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<td>• 40.004 Statistics</td>
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**ESD UG Subject Description:**
[esd.sutd.edu.sg/academics/undergraduate-program/course-schedule](esd.sutd.edu.sg/academics/undergraduate-program/course-schedule)

**ESD PhD Subject Description:**
[esd.sutd.edu.sg/academics/phd-programme/courses](esd.sutd.edu.sg/academics/phd-programme/courses)
## ANNEX B: SUMMER TERM 2021 SUBJECTS

### INFORMATION SYSTEMS AND TECHNOLOGY DESIGN PILLAR (ISTD)

<table>
<thead>
<tr>
<th>UG / PhD Code</th>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Subject Credits</th>
<th>Subject Instructor</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
</tr>
</thead>
</table>
| UG            | 50.017       | Graphics and Visualisation | 12              | Peng Song          | 8    | • 50.003 Elements of Software Construction or knowledge of the following:  
C/C++: All assignments are in C/C++  
Calculus, Linear Algebra: Solving equations, derivatives, integral; vectors, matrices, basis, solving systems of equations. |
| UG            | 50.021       | Artificial Intelligence | 12              | Lim Kwan Hui, Dorien Herremans | 8    | • 01.112 Machine Learning / 01.113 Statistical Machine Learning  
• 50.034 Introduction to Probability and Statistics / 30.003 Introduction to Probability and Statistics / 40.001 Probability + 40.004 Statistics |
| UG            | 50.033       | Foundations of Game Design and Development | 12              | Natalie Agus       | 8    | • 50.001 Intro to Information Systems & Programming  
• 50.004 Introduction to Algorithms |
| UG            | 50.040       | Natural Language Processing | 12              | Lu Wei             | 8    | • 01.112 Machine Learning / 01.113 Statistical and Machine Learning  
• A good foundation in: 1) programming, 2) design and analysis of algorithms, 3) mathematics including linear algebra, calculus, optimization, probability, and statistics. |
| UG            | 50.044       | System Security | 12              | Dinh Tien Tuan Anh | 8    | • 50.042 Foundations of Cybersecurity |
| UG            | 50.045       | Information Retrieval | 12              | Soujanya Poria     | 8    | • Prior knowledge of elementary linear algebra would be helpful but is not required for this course.  
• Programming knowledge preferably in Python.  
• Object-orientated programming.  
• Data structure. |

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**ISTD UG Subject Description:** istd.sutd.edu.sg/undergraduate/course-schedule

**ISTD PhD Subject Description:** istd.sutd.edu.sg/education/mssd/course-catalogue
# ANNEX B: SUMMER TERM 2021 SUBJECTS

## ARCHITECTURE AND SUSTAINABLE DESIGN PILLAR (ASD)

<table>
<thead>
<tr>
<th>UG / PhD Code</th>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Subject Credits</th>
<th>Subject Instructor</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG</td>
<td>20.312</td>
<td>Social Architecture: Theory and Practice</td>
<td>9</td>
<td>Chong Keng Hua</td>
<td>8</td>
<td>• Capstone program and taking the respective course during the same term</td>
</tr>
<tr>
<td>UG</td>
<td>20.307</td>
<td>Toward Carbon-neutral Architecture and Urban Design</td>
<td>9</td>
<td>Naree Phinyawatana</td>
<td>8</td>
<td>• 0.203 Architectural Energy Systems</td>
</tr>
<tr>
<td>UG</td>
<td>20.305</td>
<td>Conservation Theories and Approaches of Built Heritage</td>
<td>9</td>
<td>Yeo Kang Shua</td>
<td>8</td>
<td>• 20.222 History, Theory and Culture 2</td>
</tr>
<tr>
<td>UG</td>
<td>20.224</td>
<td>Artificial &amp; Architectural Intelligence in Design (HTC)</td>
<td>9</td>
<td>Immanuel Koh</td>
<td>8</td>
<td>NIL</td>
</tr>
<tr>
<td>UG</td>
<td>20.112</td>
<td>Sustainable Design Option Studio 2</td>
<td>18</td>
<td>TBC</td>
<td>8</td>
<td>• 20.101 Architectural Core Studio 1 • 20.102 Architectural Core Studio 2 • 20.103 Architectural Core Studio 3 • 20.111 Sustainable Design Option Studio 1</td>
</tr>
</tbody>
</table>

ASD subjects are currently available only to students from Zhejiang University, Aalto University, Chulalongkorn University, Feng Chia University and IE University.

The list is subjected to changes annually, and places in each subject might be limited.

**ASD UG Subject Description:**
[asd.sutd.edu.sg/programme/undergraduate-courses](http://asd.sutd.edu.sg/programme/undergraduate-courses)
## HUMANITIES, ARTS AND SOCIAL SCIENCES CLUSTER (HASS)

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<th>UG / PhD</th>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Subject Credits</th>
<th>Subject Instructor</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
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</thead>
<tbody>
<tr>
<td>UG</td>
<td>02.108</td>
<td>Modern China: Pluralism, and Beyond Territoriality</td>
<td>12</td>
<td>Pang Yang Huei</td>
<td>8</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.124</td>
<td>The Modern East Asian Nexus - A History</td>
<td>12</td>
<td>Pang Yang Huei</td>
<td>8</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.201TS</td>
<td>Digital Sociology</td>
<td>12</td>
<td>Nilanjan Raghunath</td>
<td>8</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>New Elective</td>
<td>Psychological Approaches to Bilingualism</td>
<td>12</td>
<td>Yow Wei Quin</td>
<td>8</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.114DH</td>
<td>The Multicultural Archipelago in History and Story</td>
<td>12</td>
<td>Nazry Bahrawi</td>
<td>8</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.133TS</td>
<td>Ideal Innovations? Science Fiction &amp; the Ethics of Technology</td>
<td>12</td>
<td>Nazry Bahrawi</td>
<td>8</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.223</td>
<td>Business Ethics</td>
<td>12</td>
<td>Olivia Nicol</td>
<td>8</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.148TS</td>
<td>Geographies of Money and Finance</td>
<td>12</td>
<td>Gordon Tan</td>
<td>8</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.151TS</td>
<td>Digital Worlds, Space and Spatialities: Geographical Perspectives on Digitalisation</td>
<td>12</td>
<td>Gordon Tan</td>
<td>8</td>
<td>NIL</td>
</tr>
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</table>

The list is subjected to changes annually, and places in each HASS subject are very limited.

**HASS Subject Description:**  
### ANNEX C: FALL TERM 2021 SUBJECTS

**ENGINEERING PRODUCT DEVELOPMENT PILLAR (EPD)**

<table>
<thead>
<tr>
<th>UG / PhD</th>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Subject Credits</th>
<th>Subject Instructor</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>UG</td>
<td>30.104</td>
<td>Dynamics</td>
<td>12</td>
<td>Dario Poletti</td>
<td>6</td>
<td>• 10.002 Physics I and 10.004 Advanced Math II and 30.101 Systems &amp; Control</td>
</tr>
<tr>
<td>UG</td>
<td>30.105</td>
<td>Machine Element Design</td>
<td>12</td>
<td>Soh Gim Song</td>
<td>6</td>
<td>• 30.001 Structures &amp; Materials</td>
</tr>
<tr>
<td>UG</td>
<td>30.106</td>
<td>Microelectronics Circuits &amp; Devices</td>
<td>12</td>
<td>Cheah Chin Wei</td>
<td>6</td>
<td>• 30.002 Circuits &amp; Electronics</td>
</tr>
<tr>
<td>UG</td>
<td>30.107</td>
<td>Power Electronics</td>
<td>12</td>
<td>Teo Tee Hui</td>
<td>6</td>
<td>• 30.002 Circuits &amp; Electronics</td>
</tr>
<tr>
<td>UG</td>
<td>30.108</td>
<td>Introduction to Material Science</td>
<td>12</td>
<td>Tan Mei Chee</td>
<td>6</td>
<td>• 10.003 Chemistry: From Atoms to Crystals and 30.001 Structures &amp; Materials</td>
</tr>
<tr>
<td>UG</td>
<td>30.110</td>
<td>Digital Systems Laboratory</td>
<td>12</td>
<td>Yuen Chau</td>
<td>6</td>
<td>• 30.002 Circuits &amp; Electronics and 10.009 The Digital World</td>
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<tr>
<td>UG</td>
<td>30.111</td>
<td>Entrepreneurship</td>
<td>12</td>
<td>Luo Jianxi</td>
<td>6</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>30.203</td>
<td>Topics In Bio Medical &amp; Healthcare Engineering</td>
<td>12</td>
<td>Khoo Xiaojuan</td>
<td>6</td>
<td>• 30.001 Structures &amp; Materials and 10.008 Engineering the Physical World</td>
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<tr>
<td>UG</td>
<td>30.316</td>
<td>Digital Biomimetics</td>
<td>12</td>
<td>Javier Fernandez</td>
<td>6</td>
<td>• 30.001 Structures and Materials and 30.007 Engineering Design Innovation</td>
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</table>

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**EPD UG Subject Description:**
[epd.sutd.edu.sg/education/undergraduate/undergraduate-courses](epd.sutd.edu.sg/education/undergraduate/undergraduate-courses)

**EPD PhD Subject Description:**
[epd.sutd.edu.sg/education/graduate/courses](epd.sutd.edu.sg/education/graduate/courses)
## ANNEX C:
FALL TERM 2021 SUBJECTS

## ENGINEERING SYSTEMS AND DESIGN PILLAR (ESD)

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<th>Subject Instructor(s)</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
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<tbody>
<tr>
<td>UG</td>
<td>40.015</td>
<td>Simulation Modelling and Analysis</td>
<td>12</td>
<td>Nuno Ribeiro, Karthyek Murthy</td>
<td>6</td>
<td>• 40.001 Probability&lt;br&gt;• 40.004 Statistics (or 30.003/50.034 Introduction to Probability and Statistics)</td>
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<tr>
<td>UG</td>
<td>40.016</td>
<td>The Analytics Edge</td>
<td>12</td>
<td>Stefano Galelli, Bikramjit Das</td>
<td>6</td>
<td>• 40.002 Optimisation&lt;br&gt;• 40.004 Statistics (or 30.003/50.034 Introduction to Probability and Statistics)</td>
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<tr>
<td>UG</td>
<td>40.260</td>
<td>Supply Chain Management</td>
<td>12</td>
<td>Shrutivandana Sharma</td>
<td>6</td>
<td>• 40.012 Manufacturing and Service Operations&lt;br&gt;• 40.004 (or 30.003/50.034 Introduction to Probability and Statistics)</td>
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<tr>
<td>UG</td>
<td>40.320</td>
<td>Airport Systems Planning and Design</td>
<td>12</td>
<td>Michael Portier</td>
<td>6</td>
<td>• 40.012 Manufacturing and Service Operations&lt;br&gt;• 40.014 Engineering Systems Architecture</td>
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<tr>
<td>UG</td>
<td>40.324</td>
<td>Fundamentals of Investing</td>
<td>12</td>
<td>Douglas Rolph</td>
<td>6</td>
<td>• 10.004 Advanced Math II&lt;br&gt;• 40.001 Probability (or 30.003/50.034 Introduction to Probability and Statistics)</td>
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ESD UG Subject Description: esd.sutd.edu.sg/academics/undergraduate-program/course-schedule

ESD PhD Subject Description: esd.sutd.edu.sg/academics/phd-programme/courses
# ANNEX C: FALL TERM 2021 SUBJECTS

## INFORMATION SYSTEMS AND TECHNOLOGY DESIGN PILLAR (ISTD)

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<th>Term</th>
<th>Subject Pre-requisites</th>
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<tbody>
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<td>UG</td>
<td>50.007</td>
<td>Machine Learning</td>
<td>12</td>
<td>Lu Wei, Malika</td>
<td>6</td>
<td>50.001 Introduction to Information Systems &amp; Programming and 50.004 Introduction to Algorithms; or A working knowledge of programming in Python or Java and a strong foundation in probability and statistics, and optimization (topics such as dynamic programming)</td>
</tr>
<tr>
<td>UG</td>
<td>50.012</td>
<td>Networks</td>
<td>12</td>
<td>Chen Binbin</td>
<td>6</td>
<td>50.005 Computer System Engineering or A working knowledge of programming in Python and a strong foundation in computer systems</td>
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<td>50.038</td>
<td>Computational Data Science</td>
<td>12</td>
<td>Soujanya, Dorien</td>
<td>6</td>
<td>10.009 The Digital World 50.034 Probability and Statistics / 30.003 Introduction to Probability &amp; Statistics / 40.001 Probability + 40.004 Statistics</td>
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<td>UG</td>
<td>50.042</td>
<td>Foundation of Cybersecurity</td>
<td>12</td>
<td>TBC</td>
<td>6</td>
<td>50.005 Computer System Engineering or equivalent background with strong programming skills</td>
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<tr>
<td>UG</td>
<td>50.043</td>
<td>Database and Big Data</td>
<td>12</td>
<td>Dinh Tien Tuan Anh, Liu Jun</td>
<td>6</td>
<td>10.009 The Digital World 50.004 Introduction to Algorithms 50.005 Computer System Engineering</td>
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</table>

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**ISTD UG Subject Description:**
istd.sutd.edu.sg/undergraduate/course-schedule

**ISTD PhD Subject Description:**
istd.sutd.edu.sg/education/mssd/course-catalogue
### ANNEX C: FALL TERM 2021 SUBJECTS

ARCHITECTURE AND SUSTAINABLE DESIGN PILLAR (ASD)

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<th>Subject Credits</th>
<th>Subject Instructor</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
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</thead>
</table>
| UG       | 20.111       | Sustainable Design Option Studio 1 | 21              | TBC                | 6    | • 20.101 Architecture Core Studio 1  
|          |              |                |                 |                    |      | • 20.102 Architecture Core Studio 2 |
| UG       | 20.318       | Creative Machine Learning: Advanced Topics In Design Computation | 9               | • Immanuel Koh     | 6    | • 20.211 Introduction to Design Computation |
| UG       | 20.319       | Architectural Theory and Design Application in the 20th-21st Century | 9               | • Daniel Joseph Whittaker | 6    | NIL |
| UG       | 20.320       | Project Management in the Built Environment | 9               | • Zheng Kai        | 6    | • 20.201 Architecture Science and Technology  
|          |              |                |                 |                    |      | • 20.202 Architectural Structure and Enclosure Design |
| UG       | 20.302       | Advanced Topics in Performative Design: Daylight and Electric Light | 9               | • Daniel Joseph Whittaker | 6    | NIL |

ASD subjects are currently available only to students from Zhejiang University, Aalto University, Chulalongkorn University, Feng Chia University and IE University.

The list is subjected to changes annually, and places in each subject might be limited.

**ASD UG Subject Description:**
[asd.sutd.edu.sg/programme/undergraduate-courses](http://asd.sutd.edu.sg/programme/undergraduate-courses)
## ANNEX C: FALL TERM 2021 SUBJECTS

### HUMANITIES, ARTS AND SOCIAL SCIENCES CLUSTER (HASS)

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<th>Subject Credits</th>
<th>Subject Instructor</th>
<th>Term</th>
<th>Subject Pre-requisites</th>
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<tbody>
<tr>
<td>UG</td>
<td>02.124</td>
<td>The Modern East Asian Nexus – A History</td>
<td>12</td>
<td>Pang Yang Huei</td>
<td>6</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.110DH</td>
<td>The Chinese Lyrical Tradition: Arts, Literature and Landscape Design</td>
<td>12</td>
<td>Zhao Zhenxing</td>
<td>6</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.226</td>
<td>Leaders and Followers</td>
<td>12</td>
<td>Grace Dixon</td>
<td>6</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>NEW</td>
<td>New elective - 1965: Upheaval in SEA</td>
<td>12</td>
<td>Sandeep Rey</td>
<td>6</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.116DH</td>
<td>The Word and the World: Introducing Literary Theory</td>
<td>12</td>
<td>Nazry Bahrawi</td>
<td>6</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.139HT</td>
<td>Form and Content in Arts, Science and Society</td>
<td>12</td>
<td>Sayan Bhattacharyya</td>
<td>6</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.145TS</td>
<td>Surveys and Experiments in the Social Sciences</td>
<td>12</td>
<td>Andrew Yee</td>
<td>6</td>
<td>NIL</td>
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<tr>
<td>UG</td>
<td>02.152</td>
<td>Urban Theory</td>
<td>12</td>
<td>Jeffery Chan</td>
<td>6</td>
<td>NIL</td>
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The list is subjected to changes annually, and places in each HASS subject are **very limited**.

**HASS Subject Description:**
[Link to HASS subject description](hass.sutd.edu.sg/education/undergraduate-subjects/subjects-schedule)
## IUROP MAX PROJECTS

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<tr>
<th>S/N</th>
<th>Project Title</th>
<th>Project Instructor</th>
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<tbody>
<tr>
<td>1</td>
<td>Fractional Electrokinetic Theory</td>
<td>Ang Yee Sin &amp; Ricky Ang</td>
</tr>
<tr>
<td>2</td>
<td>Gamification Of AI-driven Exercise Corner</td>
<td>Yuen Chau</td>
</tr>
<tr>
<td>3</td>
<td>Development of A Testing Device For Strength Evaluation of Prosthetic Sockets</td>
<td>Subburaj Karupppasamy</td>
</tr>
<tr>
<td>4</td>
<td>Development of User Interface and Interaction Methods Design for an Augmented</td>
<td>Subburaj Karupppasamy</td>
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<td>Reality-based Anatomy Learning System</td>
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<td>5</td>
<td>Wearable Haptic Feedback System to Correct Spine Posture in Patients with</td>
<td>Subburaj Karupppasamy</td>
</tr>
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<td></td>
<td>Lower Back Pain during COVID-19 New Normal</td>
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</tr>
<tr>
<td>6</td>
<td>Designing Comfort in Wearable Technologies</td>
<td>Lucienne Blessing</td>
</tr>
<tr>
<td>7</td>
<td>Wireless Transceiver Module and Implementation of IoT Based Radio Frequency</td>
<td>Yeo Kiat Seng</td>
</tr>
<tr>
<td></td>
<td>Wireless Applications</td>
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<tr>
<td>8</td>
<td>Frequency Synthesizers For Next Generation Radio Frequency Wireless Applications</td>
<td>Yeo Kiat Seng</td>
</tr>
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<td>9</td>
<td>Generative Network Technique For Synthesizing Imaging Data</td>
<td>Yeo Si Yong</td>
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<td>10</td>
<td>Deep Network Technique For The Inference Of Material Characteristics From Cell</td>
<td>Yeo Si Yong</td>
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<td>Parameters In Curved Stiffened Structures</td>
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<td>11</td>
<td>Computational AI Techniques For Synthesizing Novel Designs Of Objects</td>
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<td>12</td>
<td>Nuclear Ambitions of South Korea during the Cold War</td>
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<td>13</td>
<td>From Fruity Wastes to Biopackaging</td>
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<td>14</td>
<td>OpenSource development of neural network based signal processing tool in PyTorch</td>
<td>Dorien Herremans</td>
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<td>Wearable Functional Electrical Stimulation System for the Elderly to Prevent</td>
<td>Subburaj Karupppasamy</td>
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<td>Visual IoT: Novel Interaction with IoT Devices through Augmented Reality</td>
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<td>17</td>
<td>Explainable AI Framework for PPG-Based ECG Estimation on Mobile Devices</td>
<td>Jiang Wenchao</td>
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The list is taken with reference to iUROP Max projects offered in Summer Term 2021. The list differs from year to year and will be ready 1 month before application.