



AGREEMENT made on November 1, 2020 ("**Effective Date**")

BETWEEN

- (1) **SINGAPORE MANAGEMENT UNIVERSITY** (UEN No. 200000267Z) as represented by its **School of Information Systems ("SMU")**, having its registered office at 81 Victoria Street, Singapore 188065;

AND

- (2) **NATIONAL TAIPEI UNIVERSITY** as represented by its **College of Business ("NTPU")**, having its registered office at No. 151, University Rd., Sanxia Dist., New Taipei City 237303, Taiwan (R.O.C.)

Each hereinafter referred to as a "**Party**" and collectively as the "**Parties**".

WHEREAS:

- (A) Subject to the terms of this Agreement, the intent of the Parties is to work together in the spirit of international collaboration in graduate education and to enter into a collaboration involving the SMU Master of IT in Business (MITB) Programme ("**SMU MITB Programme**") offered by SMU. This collaboration will provide a valued proposition to talented postgraduate students in an increasingly competitive postgraduate market.
- (B) The Parties are agreeable to enter this collaboration in accordance with following terms and conditions.

IT IS HEREBY AGREED AS FOLLOWS:

1. POSTGRADUATE PROFESSIONAL PROGRAMMES COLLABORATION

- 1.1 The collaboration programme will be delivered in 3 (three) stages at both, SMU and NTPU, as follows:

- 1.1.1 In Stage 1, students will undertake their first year of the College of Business postgraduate programme at **NTPU** in Taiwan ("**NTPU CoB Programme**"). Students may use up to 4 (four) Course Units from the **NTPU CoB Programme** ("**NTPU Matching Course Units**") towards the completion of the SMU MITB Programme, provided that a minimum B grade/ 70 marks has been achieved for each **NTPU Matching Course Unit**.
 - 1.1.2 In Stage 2, students will commence the SMU MITB Programme and complete the remaining 9 or more Course Units as well as all other degree requirements at SMU in Singapore.
 - 1.1.3 In Stage 3, students will return to **NTPU** to complete their **NTPU CoB Programme**.
 - 1.1.4 Students are required to complete all three (3) Stages in 4 years, failing which SMU shall have the discretion to take appropriate action (including, but not limited to, whether to admit a student to the SMU MITB Programme or allow a student to receive the SMU MITB Programme degree).
- 1.2 The **NTPU CoB Programme** (Stage 1 and Stage 3) is managed by **NTPU** according to its own rules and regulations.
- 1.3 The SMU MITB Programme requires a completion of 13 Course Units, of which up to four (4) **NTPU Matching Course Units** may be taken into account subject to the requirement mentioned in Clause 1.1.1, and the remaining Course Units must be obtained at SMU within a minimum of one (1) year to a maximum of two (2) years under one of three tracks, with a combined minimum GPA of 2.5, as detailed in Annex A-I, which may be subject to change in terms of curriculum, courses and academic calendar, in accordance with SMU's rules, regulations and policies. Any such changes will be communicated to NTPU in a timely manner. Students will be awarded the SMU MITB Programme degree upon fulfilment of all the course requirements as well as other graduation requirements imposed by SMU. The details of the NTPU Matching Course Units are referenced in Annex A-II.
- 1.4 Students admitted to Stage 1 (and subsequently Stage 3) will be enrolled as **NTPU** students and students admitted to Stage 2 will be enrolled as SMU students, and will be subject to respective institutional policies and procedures (including student handbook provisions governing attendance, absence, withdrawal, and disciplinary procedures) as either Party deems applicable to that student during the respective Programme.
- 1.5 Each Party will be responsible for the logistics of each course taught under its Programme, including student registration, scheduling/timing, staffing and assignment of faculty and instructional facilities. Both Parties commit to staff the courses with high quality faculty who are qualified to teach their assigned courses. Each Party will be responsible for the compensation and regulation of its own faculty and administrative staff who teach and manage its Programme. Students have access to university facilities as normally extended to students in the respective Programmes.

- 1.6 Each Party will bear its own out of pocket costs associated with this Agreement and its out of pocket costs associated with its and/or its employees' (i) transportation, accommodation, and sustenance, as well as immigration or visa expenses; (ii) travel and personal accident insurance, including healthcare, medical assistance, evacuation, and security services, as necessary; and (iii) statutory or other regulatory fees associated with any legal, corporate, accreditation, or other filings it must make for purposes of this Agreement.
- 1.7 Each Party shall bear its own costs in terms of marketing and publicity at its own site, including but not limited to, print media, websites, brochures, web searches and advertisements. Each Party agrees (a) it will not make any false, erroneous, or misleading statements concerning it, to the other Party, or its Programme, including but not limited to statements about the nature of the available educational courses, financial charges for its Programme, or the employability of graduates of its Programme, (b) media presentations about its Programme will be factual, fair, and accurate, (c) if an accreditation is mentioned in materials related to its Programme, the role and purpose of the accreditation will be fairly and accurately represented in the materials.
- 1.8 Students will be responsible for paying prevailing fees consistent with policies established by **NTPU** for Stage 1 (and subsequently Stage 3) courses delivered by **NTPU**, and prevailing tuition fees (which will be inclusive of the prevailing Goods & Services Tax) consistent with policies established by SMU for Stage 2 courses delivered by SMU, in accordance with each Party's payment conditions and schedule for their respective Programmes. The Parties acknowledge and agree that neither Party will share with the other Party the tuition fees that it receives in connection with its Programme.
- 1.9 **Coordination**
Each Party shall, within one (1) month from the Effective Date, identify a contact person to serve as the primary liaison between the Parties. Each Party may replace its contact person, at any time, upon written notice identifying the new contact person to the other Party. The contact persons should provide updates on relevant information on changes to their respective Programmes and other course delivery arrangements.

2. APPLICATION AND ADMISSION PROCESS

- 2.1 Admission to the **NTPU CoB Programme** (Stage 1)
NTPU will apply its own admission policies, procedures, conditions and criteria to shortlist students for admission and enrolment into the **NTPU CoB Programme**.
- 2.2 **NTPU** shall allow SMU to market and publicize the SMU MITB Programme through events such as roadshows and information sessions at **NTPU**. **NTPU** shall use reasonable efforts to assist SMU in such events where necessary.
- 2.3 Admission to the SMU MITB Programme (Stage 2)
Acceptance into the **NTPU CoB Programme** does not guarantee successful enrolment into the SMU MITB Programme. Selection of the candidates for the SMU MITB Programme will be made solely by SMU. The criteria for the shortlisting of

applicants, the interview format, the selection process and the appeal process will be in accordance with SMU's rules, policies and guidelines. The interview may be conducted face-to-face or via Skype or any other similar communication tools, with representatives of SMU. Admission to the SMU MITB Programme is based on the following terms which may be amended from time to time, as deemed appropriate by SMU based on current admission requirements of the SMU MITB Programme or as otherwise previously informed by SMU:

- 2.3.1 an undergraduate degree from a recognized institution of higher education;
 - 2.3.2 minimum GMAT score of 600 or minimum GRE combined score of verbal and quantitative components of 312 or SMU Admissions Test consisting of verbal, reasoning and inductive components and achieve a minimum average T score of 55, wherein GMAT is preferred (SMU reserves the right to make adjustments to the minimum scores in the future, and will notify **NTPU** with sufficient notice period);
 - 2.3.3 minimum IELTS score of 6.5, TOEFL score of 90 or equivalent;
 - 2.3.4 an admission interview;
 - 2.3.5 resume/cv;
 - 2.3.6 personal statement;
 - 2.3.7 recommendation letters;
 - 2.3.8 requirement for two years of working experience will be waived;
- 2.4 Students must make an online application for the SMU MITB Programme and submit the required documents via SMU's online application portal. Students will be required to pay all prevailing application fees (which will be inclusive of the prevailing Goods & Services Tax). SMU will directly inform the applicants on the outcome of the selection. SMU will also handle any appeals and communicate the appeal outcome to the applicant.
- 2.5 The Parties agree that applicants will be officially recognized as students of SMU only after successful matriculation into the SMU MITB Programme, and not before that. All modules of the SMU MITB Programme will be fully conducted and completed at SMU's campus in Singapore or virtually or it will be conducted in a hybrid environment of physical and virtual classes, which would be subject to laws and/or government directions in Singapore and SMU's decisions as well as policies with regard to safe distancing measures, at the relevant time.
- 2.6 Enrolment into the SMU MITB Programme is also conditional on students obtaining the necessary student visa from the Singapore Immigration and Checkpoints Authority (ICA). SMU will assist at its best effort and in good faith in the issuance of appropriate documentation for purposes of obtaining the student visa one month before enrolment into SMU.
- 2.7 Return to the **NTPU CoB Programme** (Stage 3)
On completion of the SMU MITB Programme, students are expected to return to **NTPU** and complete their **NTPU CoB Programme**.

3. **ADMISSION AS SMU STUDENTS**

- 3.1 All students who have successfully matriculated and have enrolled in the SMU MITB Programme must comply with all of SMU's rules, policies and guidelines.
- 3.2 The tuition fees for the SMU MITB Programme will be pegged at the prevailing fees at matriculation as published on SMU websites or as advised by SMU from time to time. All prevailing application fees, registration fees and tuition fees (which will be inclusive of the prevailing Goods & Services Tax) must be paid by the students according to the usual payment schedules. Details of tuition fees are available in Annex B.
- 3.3 All admitted students are eligible to be considered for the SMU MITB Programme partial scholarship, based on eligibility and availability at the time of admission, details of which are provided on the relevant SMU websites and in Annex B. The availability as well as the broad terms and conditions of the aforesaid scholarships may from time to time be subject to such changes as deemed appropriate by SMU.
- 3.4 Upon successful matriculation into the SMU MITB Programme, students will be granted access to common facilities and services that are given to all postgraduate students at SMU. These will include use of the Internet and IT services, library and student facilities on campus, basic medical insurance (which is included in the fees collected) and access to SMU's Office of Postgraduate Career Services.
- 3.5 SMU has an Office of Postgraduate Career Services to assist students to secure internship and job placements. However, SMU does not guarantee that all students will be placed for internships or are able to find permanent jobs after graduating from SMU with the SMU MITB Programme degree. Students who successfully secure an internship may be paid a monthly stipend by the sponsoring company, solely at the discretion of the sponsoring company. Internship is an optional course equivalent to 1 or 2 Course Units. Students are only allowed to complete one internship, regardless of the Course Units. Once secured, students must complete the internship duration of at least (i) ten (10) weeks for 1 Course Unit; or (ii) five (5) months, and at the most six (6) months of internship for 2 Course Units. Students who terminate their internship prematurely without a valid reason would be deemed to have failed the internship. Internship grading policies are referenced in the MITB Internship/Capstone Project Student Handbook.
- 3.6 For students who do not secure any internship within the first 2 terms of the relevant academic year, they will need to complete the SMU MITB Programme by either completing other Course Units available in the SMU MITB Programme or completing a Capstone Project.
- 3.7 All other expenses or costs incurred by the students in Singapore will be borne by the students, including but not limited to living costs (accommodation, meals), passport and visa costs, healthcare and insurance and other personal costs (books, clothing, necessities, entertainment, transportation), costs related to student exchanges, should the student participate in student exchange programmes, if applicable.
- 3.8 SMU will not take responsibility for any loss or damage to the students' personal belongings, however caused, and all students should make their own insurance arrangements for loss of or damage to personal property.

4. CONFIDENTIALITY

- 4.1 Except as required by applicable law or other relevant regulatory authorities, neither Party shall disclose to any person or entity (other than the trustees, directors, officers and employees of the Parties and their professional advisors or contractors or the Ministry of Education on a need to know basis) or make any public announcement or press release with regard to the terms of this Agreement without the prior written consent of the authorised representative of the other Party.

5. INTELLECTUAL PROPERTY

- 5.1 Each Party's intellectual property (including but not limited to curriculums, publications, course descriptions, examinations, pedagogical methods, and all items contained therein) that is provided, if any, to the other Party in connection with this Agreement is the sole and exclusive property of the Party providing it, and it is provided solely for the purposes of this Agreement, and does not constitute or imply a licence or any other rights to use such intellectual property. Neither Party may use the other Party's intellectual property in a manner (i) other than as expressly provided for under this Agreement; (ii) likely to diminish the commercial value of such intellectual property; or (iii) likely to cause marketplace confusion about such intellectual property, including confusion about intellectual property ownership.

6. PERSONAL DATA AND CONFIDENTIAL INFORMATION

- 6.1 For the purposes of this Clause:

6.1.1 "**Personal Data**" shall mean; data whether true or not, about an individual who can (a) be identified from that data; or (b) from that data and other information to which the university has or is likely to have access.

6.1.2 "**Confidential Information**" shall mean all information of a Party not generally known to the public that is marked or specifically designated as confidential, or by its nature would be reasonably understood to be confidential or proprietary.

- 6.2 Both Parties appreciate that they will need to disclose to the other Personal Data and Confidential Information. Each Party shall take all necessary and reasonable precautions to prevent the disclosure of any Confidential Information and limit access to such information to the relevant authorised personnel of each Party. Without prejudice to the foregoing and other obligations in this Agreement relating to Confidential Information, each Party, being both a provider and a recipient of Personal Data under this Agreement, agrees to take reasonable steps to assist the other Party to ensure that the relevant data protection laws of the Personal Data provider are complied with when so advised by the Personal Data provider.

- 6.3 Both Parties agree that they will ensure that all Confidential Information, student records and Personal Data relating to the students are held securely and confidentially and to further ensure that no such Personal Data is used or disclosed for any purpose

other than so far as is necessary in connection with this Agreement. The receiving Party shall (and shall ensure that its authorised personnel shall) take all appropriate physical, technical and organisational security measures to ensure that all Confidential Information and Personal Data are protected against loss, destruction, damage, unauthorised or accidental access, processing, erasure, transfer, use, modification, disclosure or other misuse, and that only personnel authorised by the receiving Party for the purpose of this Agreement shall have access to such Confidential Information and Personal Data.

- 6.4 In the event of a complaint lodged by the owner of the Confidential Information and/or Personal Data, the Parties shall fully co-operate and provide necessary information and documentation reasonably required by either Party.
- 6.5 In the event of any breach of the security measures put in place for the protection of the Confidential Information and/or Personal Data or any loss of the Confidential Information and/or Personal Data, the Parties agree to inform each other in writing, as soon as practicable. The provisions in this Clause shall apply during the continuance of this Agreement and even after its expiry or termination.
- 6.6 The restrictions in this Clause do not apply to the following:
- 6.6.1 information which was at the time of disclosure, or thereafter falls, in the public domain without misconduct or negligence of the receiving Party; or
 - 6.6.2 information which is already in the receiving Party's possession at the time of disclosure thereof; or
 - 6.6.3 information which is received from a third party having no obligations of confidentiality to the disclosing Party; or
 - 6.6.4 information which is independently developed by the receiving Party; or
 - 6.6.5 information which is required to be disclosed by any applicable regulatory body or by any laws or regulations or pursuant to a valid court order compelling disclosure or any requirements imposed by any similar regulatory bodies provided that the Party required to make the disclosure shall consult with the other Party insofar as is reasonably practicable before making the disclosure.

7. PUBLICITY

- 7.1 The Parties agree that they may not conduct any publicity events regarding the collaboration contemplated in this Agreement without the express written consent of each other.
- 7.2 Neither Party shall use the name, trade name, trademark, or any other designation of the other Party, any school, college, division, department, or other unit thereof, or any employee of such Party, in any advertisement or for any commercial or promotional

purpose without such Party's prior written consent, other than as expressly provided for under this Agreement.

8. TERM, AMENDMENT AND TERMINATION

- 8.1 This Agreement shall enter into force from the Effective Date and remain in effect until October 31, 2023 ("**Term**"), unless otherwise terminated under this Agreement provided that any Party hereto may notify the other in writing not less than 6 months prior to the expiry of the Term of this Agreement that it wishes to extend the term of this Agreement and if the other Party agrees, the term of this Agreement shall be extended by such other period as may be mutually agreed in writing by the authorized representatives of the Parties on the same terms and conditions of this Agreement, subject to such modifications and amendments as the Parties hereto may agree in writing.
- 8.2 This Agreement may be terminated at any time upon mutual consent or 6 months' notice in writing by either Party.
- 8.3 Without affecting any other right or remedy available to it, either Party may terminate this Agreement with immediate effect by giving written notice to the other Party if:
- 8.3.1 the other Party has committed a material breach of any of the terms or conditions of this Agreement and has not effectively remedied the same within thirty (30) days of being requested to do so in writing (if such breach is capable of remedy); or
 - 8.3.2 the other Party has become insolvent, has become subject to judicial management proceedings, makes an assignment generally or an arrangement for the benefit of its creditors, have a receiving order made against it or if any resolution be passed or court order be made for its winding-up or if a receiver or trustee of its undertaking or any part thereof be appointed by any creditor or if any act be done which would cause any of the foregoing or if any act be done or event occur being analogous under the laws of the country in which such party is incorporated to any of the foregoing; or
 - 8.3.3 the other Party suspends or ceases, or threatens to suspend or cease, carrying on all or a substantial part of its business or activities.
- 8.4 The termination of this Agreement however caused shall be without prejudice to any rights or liabilities accrued as at the date of termination of this Agreement.
- 8.5 Prior to the termination of this Agreement under this Clause, the Parties will meet for the purpose of agreeing upon a wind down and phase out plan ("**Phase-Out Plan**") that describes agreed-upon disengagement activities and a proper transition, as needed. The Phase-Out Plan endorsed by both Parties, will be to maintain a "status quo" experience for enrolled students during the phase-out period, giving students the opportunity to complete their degree in the Programmes if feasible, with constant and consistent curriculums, courses, degree requirements, information technology

platforms, student services and activities, academic supports, facilities and other infrastructures, and policies. Consistent with the foregoing objective, the Parties will implement the Phase-Out Plan in a spirit of cooperation and concern for the well-being of the students and the equitable treatment of all faculty, administrators, staff and students. Nothing in this Agreement or the Phase-Out Plan will require, or be deemed to require, any Party to take any action or omit to take any action which, in such Party's reasonable judgement, would cause a violation of any law or accreditation requirement that governs such Party's operations or its policies or procedures.

9. GOVERNING LAW

- 9.1 This Agreement shall be governed by and construed in accordance with the laws of the Republic of Singapore, in respect of performance in Singapore; and shall be governed by and construed in accordance with the laws of Taiwan in respect of performance in Taiwan.

10. LIMITATION OF LIABILITY

- 10.1 Neither Party will have any liability to the other Party in the course of the performance of this Agreement, other than for its willful misconduct or breach of obligations stated in this Agreement.
- 10.2 Notwithstanding the foregoing clause, neither Party will be liable to the other Party with respect to any subject matter of this Agreement for any special, indirect, incidental, consequential, punitive damages, or lost profits, under any contract, negligence, strict liability, or other legal or equitable theory.

11. DISPUTE

- 11.1 Any dispute arising out of or in connection with this Agreement, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration administered by the Singapore International Arbitration Centre ("**SIAC**") in accordance with the Arbitration Rules of the Singapore International Arbitration Centre ("**SIAC Rules**") for the time being in force, which rules are deemed to be incorporated by reference in this Clause. The seat of the arbitration shall be Singapore. The Tribunal shall consist of one (1) arbitrator and the language of the arbitration shall be English.

12. FORCE MAJEURE

- 12.1 Neither Party will be liable for any failure or delay in performing any of its obligations under this Agreement if and to the extent the failure or delay is directly due to one of the following: fire, flood, elements of nature, acts of God, health epidemics declared by the World Health Organisation, acts of war, terrorism or civil unrest, industrial action or any other similar events beyond its reasonable control which affects

the general public (each a “**Force Majeure Event**”) provided that the Party affected by the Force Majeure Event is without fault and the failure or delay could not have been prevented by reasonable precautions.

- 12.2 Subject to the Party who has been delayed promptly telling the other Party in writing of the reasons of the delay and the likely duration of the delay; and using reasonable efforts to perform its obligations under this Agreement or to mitigate the impact of its non-performance, notwithstanding the Force Majeure Event, the performance of that Party’s obligations will be suspended during the period that those circumstances persist and that Party will be granted an extension of time for performance equal to the period of the delay.
- 12.3 If the Force Majeure Event shall continue for a period exceeding thirty (30) days or the extension of time granted under this Clause exceeds thirty (30) days in the aggregate, either Party may terminate this Agreement by giving fourteen (14) days’ prior written notice to the other Party without being liable therefore in damages or compensation.

13. MISCELLANEOUS

- 13.1 The Agreement reflects the entire understanding between the Parties.
- 13.2 This Agreement may be amended at any time by mutual consent in writing between authorized representatives of the Parties.
- 13.3 The invalidity or unenforceability for any reason of any part of this Agreement shall not prejudice or affect the validity or unenforceability of the remainder. No forbearance or indulgence on the part of one Party shown or granted to the other in enforcing any of the terms or conditions of this Agreement shall in any way affect diminish, restrict or prejudice the rights or power of such Party under this Agreement or operate or be deemed to be a waiver of any breach of the terms or conditions of this Agreement on its part.
- 13.4 This Agreement shall not be assigned or transferred, in whole or in part, by any Party except with the prior written consent of the other Party.
- 13.5 Nothing contained in this Agreement shall be deemed to create any agency, partnership or joint venture between the Parties. Neither Party shall have any right or authority to contract or otherwise create any obligation or responsibility, express or implied, in the name of or on behalf of the other except as explicitly provided herein.
- 13.6 This Agreement is non-exclusive and the Parties shall be free to enter into agreements with other parties covering cooperation on matters within the scope of this Agreement.
- 13.7 A person who is not a party to this Agreement has no right to enforce any of the terms of this Agreement.
- 13.8 This Agreement may be executed in one or more counterparts, each of which shall be

deemed an original and all of which taken together shall constitute one agreement.

- 13.9 The Parties agree that certain obligations under this Agreement, which, by their nature, would continue beyond the termination or expiration of this Agreement, will survive termination or expiration of this Agreement. Such obligations include, by way of illustration only and not limitation, those obligations pertaining to personal data, intellectual property, liability, confidentiality and dispute resolution.

IN WITNESS WHEREOF, the undersigned have caused this Agreement to be executed by their respective duly authorized representatives to be effective as of the date first above written.

SINGAPORE MANAGEMENT UNIVERSITY

NATIONAL TAIPEI UNIVERSITY

By: _____
Name: **Professor Lily KONG**
Title: President
Date: <Date>

By: _____
Name: **Professor Lee, Chen-Jai**
Title: President
Date: <Date>

Witnessed By: _____
Name: Professor PANG Hwee Hwa
Title: Dean, School of Information Systems
Date: <Date>

Witnessed By: _____
Name: Professor Chih, Hsiang-Lin
Title: Dean, College of Business
Date: <Date>

Annex A-I: **SMU MITB Programme Summary**

The SMU MITB Programme is composed of 6 Series of Courses Areas:

Financial Technology (FINTECH)

Digital Banking & FinTech[@]
 Digital Transformation in Retail Banking Technology
 Corporate Banking & Blockchain
 Financial Markets Systems & Technology
 Digital Payments & Innovations
 Analytics in Financial Services[@]

Analytics Technology & Applications (ANALYTICS)

Analytics Framework & Business Context
 Data Analytics Lab[@]
 Customer Analytics & Applications
 Operations Analytics & Applications
 Big Data: Tools & Techniques
 Visual Analytics & Applications
 Text Analytics & Applications
 Social Analytics & Applications
 Process Analytics Using Simulation
 Data Management
 Applied Statistical Analysis with R[@]
 Applied Machine Learning
 Python for Data Science

Artificial Intelligence & Applications (AI)

Introduction to Artificial Intelligence[@]
 Applied Machine Learning[@]
 Algorithm Design & Implementation[^]
 Deep Learning for Visual Recognition
 Natural Language Processing for Smart Assistants
 AI Planning and Decision Making
 Multi-Agent Systems
 Recommender Systems
 AI Translational Research Seminar[#]

Information Technology Management (TECH)

Cybersecurity Technology & Applications
 Spreadsheet Modeling for Technology & Operations Decisions[@]
 IT Project & Vendor Management
 Global Sourcing of Technology & Processes
 IoT Technology & Applications
 Digital Transformation Strategy

General Management for Technology & Operations (GENERALMGMT)

Financial Accounting^{*}
 Management Accounting for Technology & Operations Managers^{*}

Strategy & Organization
Finance for Technology & Operations Managers

Practicum

Capstone Project (2 Course Units)

Internship (1 or 2 Course Units)

* refers to half Course Unit courses

@ refers to compulsory courses

Graduation Requirement for AI track students, without credit

^ Pre-requisite course

ANNEX A-II: NTPU Matching Course Units

NTPU Course Code	NTPU Course Title	SMU Course Code	SMU Course Title
M5030	High Dimensional Data Analysis	ISSS616	Applied Statistical Analysis with R
M5282	Machine Learning	ISSS610	Applied Machine Learning
M6050	Python Programming	ISSS6XX	Python for Business Applications

A maximum of 2 CUs can be transferred from the courses listed below:

NTPU Course Code	NTPU Course Title	SMU Course Code	SMU Course Title
M5195	Accounting	TBC	Accounting (SOA)
M5218	Seminar: Corporate Finance	TBC	Finance (LKCSB)
M6009	Strategy Management	TBC	Strategic Management (LKCSB)

Note:

The curriculum, courses and academic calendar may be subject to changes, in accordance with SMU's rules, regulations and policies. SMU shall inform NTPU of any such changes in a timely manner.

Annex B: **TUITION FEES AND SCHOLARSHIP****Table 1- Fee Structure, Scholarship and Payment Schedule**

Fee Structure	<ul style="list-style-type: none"> • The SMU MITB Programme Tuition fee for AY2020 is S\$48,150 (inclusive of GST) for completing 13 Course Units at SMU. The current GST rate in Singapore is 7%, thus the computation of Tuition Fee is S\$45,000 x 1.07 = \$48,150. • Prevailing GST will apply. • Prevailing application and registration fees will apply. <ul style="list-style-type: none"> ○ The current application fees is S\$100 (inclusive of GST). ○ Registration fees for international students is S\$500 (inclusive of GST). • SMU Admission Test fee per test: S\$125 (inclusive of GST). • Each additional 0.5 Course Unit fee (beyond 13 Course Units): S\$1,605 (inclusive of GST). • Each additional 1.0 Course Unit fee (beyond 13 Course Units): S\$3,210 (inclusive of GST). • Students who extend their study beyond the normal duration of 3 terms are given an additional (4th) term of study without additional fees. An admin fee will be charged from the 5th term onwards for every extended term. The admin fee per term is S\$2,675 (inclusive of GST). Each term refers to a duration of 15 weeks. • The current fees are subject to revision.
Scholarship	<ul style="list-style-type: none"> • For the first enrolment of students, SMU will offer the following partial MITB tuition fees scholarship to every successful candidate based on the following: <ul style="list-style-type: none"> ○ 0 Course Unit exempted: S\$4,000 ○ 1 Course Unit exempted: S\$6,000 ○ 2 Course Units exempted: S\$8,000 ○ 3 Course Units exempted: S\$10,000 ○ 4 Course Units exempted: S\$12,000 • For subsequent enrolments, the partial scholarship amount will be reviewed.
Payment Schedule	<ul style="list-style-type: none"> • Application fee to be paid upon application for the SMU MITB Programme. Application fee is not refundable. • Registration fee to be paid together with the first instalment of tuition fee, upon confirmation of student visa. Registration fee is not refundable. • First instalment of tuition fees (50% of tuition fee, including non-refundable deposit of S\$5,350) will be S\$24,075, upon confirmation of student visa. • Students are required to make the balance payment of tuition fees to SMU in two instalments at the start of their second term (30% of tuition fee) and third term (20% of tuition fees) of

	<p>study at SMU. Upon confirmation of the number of NTPU Matching Course Units, the number of exempted Course Units, the partial scholarship will be used to offset the tuition fees from either the second and/or third instalments.</p> <ul style="list-style-type: none"> • Students are responsible to make payment to SMU in Singapore dollars either via telegraphic or inter-bank transfer. <p>For additional details, please refer to Table 2 below.</p>
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Table 2: Detailed Computation of SMU MITB Programme's Prevailing Fees

Details	Exclude GST	Includes 7% GST	Payment Event
• Application Fee	-	S\$100	Upon Application, non-refundable
• SMU Admission Test Fee (per test)	-	S\$125	For every attempt of the test
• Registration Fee	-	S\$500	Upon Registration and confirmation of student visa, non-refundable
• Additional 0.5 Course Unit Fee (optional)	S\$3,000/2 = S\$1,500	S\$1,500 x 1.07 = S\$1,605	2 weeks after course start date
• Additional 1.0 Course Unit Fee (optional)	S\$3,000	S\$3,000 x 1.07 = S\$3,210	2 weeks after course start date
• Admin fee	S\$2,500	S\$2,500*1.07 = S\$2,675	2 weeks before start of 5 th term and 6 th term (if applicable) for full time students

國立臺北大學商學院企業管理學系

109 學年度第 1 學期第 3 次系務會議會議紀錄(節錄)

時間：109 年 9 月 29 日(星期二)中午 12 時
地點：三峽校區商學大樓 5F22 會議室
主席：陳主任宥杉 記錄：陳姝伶
出席：古永嘉、方文昌、陳達新、陳銘薰、王祝三、陳宥杉、蔡顯童、劉仲矩、黃旭立、張惠真、林婷鈴、吳孟紋、鄭啟均、吳志明、游志青、陳心懿、謝榮桂、魏嘉宏、林俊佑、楊運秀、彭奕農、游攔嘉、蔡淑芬、陳姝伶
請假：張舜德、吳泰熙、蔡坤宏、林美珍、黃美綺、謝錦堂、李緒東、蕭宇翔、詹佳縈、黃文暉、丁姍如
列席：朱盈秋、曾惟民、吳妮珊、黃詩卉、康君妃、陳嫻

壹、主席報告(略)

貳、確認上次會議記錄 (1090908)

參、議案討論：

案一~案四(略)

案 五

提案人：系主任交議

案由：擬請 訂定國立臺北大學企業管理學系學位名稱暨授予要件實施辦法。
說明：

一、本校教務處來文通知，為配合本校學則第 74 條之 2~第 74 條之 5 規定，擬請各學系訂定學位名稱暨授予要件實施辦法，並經系(所、學位學程)務會議及院務會議通過，提教務會議審議。

二、本系學位名稱暨授予要件實施辦法草案詳附件九，請討論。

決議：照案通過，並提案至院務會議通過後，提教務會議審議。。

肆、臨時動議(無)

伍、散 會 (13:20)

國立臺北大學企業管理學系學位名稱暨授予要件實施辦法

本辦法經一〇九學年度第一學期第三次系務會議修訂(109/09/28)
109年10月22日109學年度第2次院務會議決議通過

第一條 依據「國立臺北大學學則」訂定本辦法。

第二條 本學系學位授予分學士、碩士、博士學位三級。

第三條 本學系各學制中文、英文學位名稱及實施年度如下：

- 一、學士班、進修學士班：企業管理學士，Bachelor of Business Administration，自 89 學年度實施。
- 二、碩士班：企業管理碩士，Master of Business Administration，自 89 學年度實施。
- 三、碩士在職專班：商學碩士，Executive Master of Business Administration，自 94 學年度實施。
- 四、碩士在職專班（現役軍人營區）：商學碩士，Executive Master of Business Administration，自 107 學年度實施。
- 五、博士班：企業管理博士，Doctor of Philosophy，自 89 學年度實施。

第四條 修讀學士學位學生，須符合本校學則第七十二條規定並須符合企業管理學系學士班、進修學士班專業科目規劃表修完畢業總學分，經考核成績及格者，授予學士學位。

第五條 修讀碩士班、碩士在職專班學生，須符合本校學則第七十二條規定及本系碩士班修業規則之規定並提出論文，經碩士學位考試委員會考試通過者，授予碩士學位。碩士及碩士在職專班學生學位考試相關規定，依本校有關辦法辦理。

第六條 修讀碩士在職專班（現役軍人營區）學生，須符合本校學則第七十二條規定及本系現役軍人營區碩士在職專班修業規則之規定並提出論文，經碩士學位考試委員會考試通過者，授予碩士學位。碩士在職專班學生學位考試相關規定，依本校有關辦法辦理。

第七條 修讀博士學位學生，須符合本校學則第七十二條規定及本系博士班、博士班「國際組」修業規則之規定並提出論文，經博士學位考試委員會考試通過者，授予博士學位。博士班學生學位考試相關規定，依本校有關辦法辦理。

第八條 本辦法未盡事宜，悉依本校學則及有關法令之規定辦理。

第九條 本辦法應經本系系務會議及院務會議決議，提請教務會議審議通過後公告實施，修正時亦同。

國立臺北大學 金融與合作經營學系

109 學年度第 1 學期第 1 次系務暨課程會議記錄節錄

時間：民國 109 年 09 月 02 日(三)12:00

地點：三峽校區商學大樓 8F19 室

主席：詹場主任

記錄：張懿蕾 助教

出席人員：如簽到表

王雅萱 秘書

案由五：擬請討論本系學位授予辦法草案。

說明：

- 一、因應本校學則第 74 條之 2 係有關代替碩博士論文之認定基準等規定，因各學系(所、院、學位學程)學位授予辦法須由各學系(所、學位學程)、院擬議後，經系(所、學位學程)務會議及院務會議通過，提教務會議審議。
- 二、依教務處所提供之各學系(所、院、學位學程)學位授予辦法範本進行草案修訂，擬請討論本系學位授予辦法草案。

決議：依擬定辦法通過，並送交院務會議與教務會議審議。

國立臺北大學金融與合作經營學系學位名稱暨授予要件實施辦法

109年9月2日第1次系務會議決議制定

109年10月22日院務會議通過

- 第一條 依據「國立臺北大學學則」訂定本辦法。
- 第二條 本學系(所、院、學位學程)學位授予分學士、碩士學位二級。
- 第三條 本學系(所、院、學位學程)各學制中文、英文學位名稱及實施年度如下：
一、學士班(學士班、進修學士班)：商學學士，Bachelor of Business Administration，自 98 學年度實施。
二、碩士班：商學碩士，Master of Business Administration，自 98 學年度實施。
- 第四條 修讀學士學位學生，須符合本校學則第七十二條規定，並具備本系畢業條件，經考核成績及格者，授予學士學位。
- 第五條 修讀碩士學位學生，須符合本校學則第七十二條規定，並符合本系碩士班修業辦法，另經碩士學位考試委員會考試通過者，授予碩士學位。碩士班學生學位考試相關規定，依本校有關辦法辦理。
- 第六條 本辦法未盡事宜，悉依本校學則及有關法令之規定辦理。
- 第七條 本辦法應經本系系務會議及院務會議決議，提請教務會議審議通過後公告實施，修正時亦同。

國立臺北大學休閒運動管理學系

108 學年度下學期第 5 次系務會議紀錄(節本)

時 間：中華民國 109 年 6 月 17 日（星期三）中午 12 點整

地 點：本系 309 會議室

出席人員：黃永任、蕭嘉惠、蔡瓊姿、吳慧卿、謝立文、洪維勵、簡志宜、陳建榮、鄭惠萍

學生代表：系學會會長熊儀

主 席：洪維勵主任

紀 錄：羅億如助教

壹、主席報告

貳、確認上次會議記錄(淡黃色資料)

參、討論事項

案五、

案由：訂定本系「國立臺北大學休閒運動管理學系學位名稱暨授予要件實施辦法」。

說明：一、因教育部於 107 年 12 月 5 日函知學位授予法修正案及於 108 年 8 月 28 日新訂定「各類學位名稱訂定程序授予要件及代替碩士博士論文認定準則」，其中學則第 74 條之 2 係有關代替碩博士論文之認定基準等規定，學則第 74 條之 2 及 74 條之 3 係有關學位名稱及授予要件等規定，因上述相關規定，須由各學系訂定學系學位授予辦法。

二、檢附「國立臺北大學休閒運動管理學系學位名稱暨授予要件實施辦法」草案如附件 4。

決議：照案通過。

肆、散會(下午 13 點 35 分)

國立臺北大學休閒運動管理學系學位名稱暨授予要件實施辦法

109年6月17日第5次系務會議決議制定

109年10月22日院務會議通過

第一條 依據「國立臺北大學學則」訂定本辦法。

第二條 本學系學位授予學士學位一級。

第三條 本學系學制中文、英文學位名稱及實施年度為商學學士(Bachelor of Business Administration，簡稱B.B.A.)，自94學年度實施。

第四條 修讀學士學位學生，須符合本校學則第七十二條規定，並須符合休閒運動管理學系學士班課程規劃表畢業學分規定、實習規定(106學年度(含)入學前者)及2張專業證照之要求，經考核成績及格者，授予學士學位。

第五條 本辦法未盡事宜，悉依本校學則及有關法令之規定辦理。

第六條 本辦法應經本系系務會議及院務會議決議，提請教務會議審議通過後公告實施，修正時亦同。

國立臺北大學商學院企業永續發展研究中心 申請由院級升級為校級中心之設置計畫書

一、成立目的

永續發展係指同時兼顧環境保護、社會關懷與經濟發展三個構面的發展模式，確保地球環境不再遭受更大破壞，且仍可提供後代子孫延續享有足夠的自然資源與生存環境。在巴黎舉行的聯合國氣候變化綱要公約(the UN Framework on Climate Change, UNFCCC)第 21 次締約方會議(21st Convention's Implementation Conference of the Parties, COP21)，與會的 195 國代表歷經兩週密集的討論後，於 2015 年 12 月 12 日通過遏阻全球暖化的歷史性巴黎氣候協議(Paris Agreement)。因此，第一個適用於全世界且具有法律約束力的全球性氣候協議孕育而生。法國總統歐蘭德指出「巴黎氣候協議是改變世界的契機，阻止氣候變遷的力量」。巴黎氣候協議於聯合國氣候大會達成協議後，未來將會改變各個國家的生活方式和產業發展型態。

為使本中心更進一步拓展 ESG 相關業務與研發能量，提升國立臺北大學、產官學合作夥伴與本中心之聲望，促進台灣上市櫃企業重視 ESG 等企業永續發展議題，並符合金管會綠色金融 2.0 與公司治理 3.0 發展藍圖，擬申請將院級企業永續發展研究中心升級為校級中心（以下簡稱本中心），並依據「國立臺北大學校級中心管理辦法」規定，檢具「國立臺北大學永續發展研究中心設置辦法」（如附件一），提出設置之申請。

二、組織架構

本中心置主任、執行長各一人，並設指數編製、證照推廣、教育培訓及顧問輔導四組，各組置組長一人。主任、執行秘書及各組組長，由本院專任教師兼任，均為無給職。本中心主任由商學院院長就教授、副教授級教師中，向校長推薦之，任期三年，得連任一次。執行長及各組組長由本中心主任就

助理教授以上教師中，簽請院長轉陳校長核定。

本中心為執行相關業務或研究計畫，得置研究人員或諮詢顧問若干人，由本中心主任就本校教師或校外專業人士提請院長報請校長聘兼，所需聘用經費由本中心自行籌措支付。此外，本中心得依業務需要，置研究助理若干人，由中心主任報請院長聘之，受中心主任之監督，處理一般行政事宜，所需聘用經費由本中心自行籌措支付。本中心設指數編製、證照推廣、教育培訓及顧問輔導四組，各組職掌如下：

- (一) 指數編製組：負責本中心指數編製相關業務。
- (二) 證照推廣組：負責本中心證照推廣相關業務。
- (三) 教育培訓組：負責本中心永續發展教育培訓相關業務。
- (四) 顧問輔導組：負責本中心永續發展顧問輔導相關業務。

參與研究中心營運人員如下：

(一) 研究團隊

科系	姓名	職稱
金融系	池祥麟	教授(商學院院長)
企管系	吳泰熙	教授(特聘教授兼財務副校長)
企管系	陳宥杉	教授(企管系主任)
會計系	朱炫璉	教授(進修推廣部主任)
企管系	林美珍	教授(企管系副主任兼 IEMBA 執行長)
金融系	黃啟瑞	教授(主任秘書)
金融系	詹場	副教授(金融系系主任兼研究中心主任)
金融系	柯文乾	副教授(指數編製組組長)
企管系	鄭啟均	副教授(執行長兼顧問輔導組組長)
企管系	林俊佑	副教授(秘書室 USR 辦公室執行長)
金融系	盧嘉梧	副教授
中心	高孟如	專任助理
中心	陳華偉	專任助理

(二) 行政團隊

職稱	姓名
研究中心主任	金融與合作經營學系 詹場主任
執行長兼顧問輔導組組長	企管系鄭啟均副教授
指數編製組組長	金融系柯文乾副教授
證照推廣組組長	休運管理系謝立文副教授
教育培訓組組長	企管系彭奕農助理教授

(三) 諮詢顧問團隊

職稱	姓名
諮詢顧問	商學院院長池祥麟教授
諮詢顧問	特聘教授兼財務副校長吳泰熙教授
諮詢顧問	企管系主任陳宥杉教授
諮詢顧問	進修推廣部主任朱炫璉教授
諮詢顧問	主任秘書黃啟瑞教授
諮詢顧問	前自然與環境管理研究所所長李堅明教授
諮詢顧問	企管系副主任兼 IEMBA 執行長林美珍教授
諮詢顧問	秘書室 USR 辦公室執行長林俊佑
諮詢顧問	金融系副教授盧嘉梧
諮詢顧問	許家偉博士 (DJSI 權威)
諮詢顧問	陳耀德博士 (CDP 權威)
諮詢顧問	陳昇鴻博士 (DJSI 權威)

本中心得承接委託產學合作、指數編製、證照推廣、教育訓練和顧問輔導等相關業務，經費收支依有關規定辦理。

三、中心定位

本中心之發展目標與特色如下：

- (一) 接受政府機構、國營事業、民間企業或非營利組織等單位委辦進行有關永續發展之研究計畫或教育訓練計畫。
- (二) 進行永續發展從業人員教育課程規劃，推廣永續發展之教育課程，以提升實務界的經營管理能力。
- (三) 編製永續發展等相關指數，以供金融證券等投資機構與投資大眾參考，並引領台灣產業對於永續發展的重視。
- (四) 推廣永續發展等相關證照，以提升永續發展從業人員專業知識與職場競爭力。
- (五) 接受政府機構、國營事業、民間企業或非營利組織等單位委辦有關永續發展之顧問輔導業務。
- (六) 與永續發展相關組織或基金會進行交流與合作，建立夥伴關係，並推展中心業務。
- (七) 針對本校學生與校外人士規劃永續發展培訓課程，以提升本校學生與校外人士之永續發展相關知能。
- (八) 邀請研究永續發展方面學者蒞校演講，並舉辦跨院演講會。
- (九) 與各校永續發展相關研究中心進行交流與合作，建立教育夥伴關係。
- (十) 與國外有關永續發展之學校、中心、非營利組織、企業或政府部門進行國際學術交流，以提升本校國際知名度與能見度。

四、業務範圍

本中心之主要任務是企業永續發展之教育、研究、推廣及實踐，主要任務包括四項：

- 1.永續指數編製及台灣企業永續績效評比
- 2.企業永續發展證照之推廣
- 3.企業永續教育培訓
- 4.企業永續發展之顧問及輔導

五、運作空間

本中心目前設立於國立臺北大學商學院 402 研究室，主要處理中心之業務，例如：GCSF（全球永續論壇）、國泰產學合作計畫等，亦為中心團隊開會地點。

主要聯絡人如下：

聯絡人	職稱	聯絡信箱
高孟如	專任助理	mjkao@gm.ntpu.edu.tw
陳華偉	專任助理	huawei.chen@gm.ntpu.edu.tw

六、運作現況與具體研究成果

以下內容會分為三個部分來詳述本中心之具體營運貢獻。首先，會先介紹中心團隊發表 ESG 相關學術論文之貢獻；其次，介紹中心近一年之發展現況；最後，介紹本中心之台灣永續價值指數(TWSVI)之近期績效與風險。

(一) ESG 論文成果 (共 23 篇)

Chan Chang, Wen-Chyan Ke, Hsiang-Lin Chih, and Chia-Wu Lu*, (2020),
Corporate Social Responsibility and Risk: Evidence from China , Journal
of Financial Studies Vol. 28(2) , 91 – 133. (TSSCI).

Chang*, Tai-Wei, Fei-Fan Chen, Hua-Dong Luan, and Yu-Shan Chen (2019),
“Effect of Green Organizational Identity, Green Shared Vision and
Organizational Citizenship Behavior for Environment on Green Product
Development Performance,” Sustainability, Vol. 11, No. 3, pp.617-633
(SSCI). (Impact Factor = 2.075) ENVIRONMENTAL STUDIES Q2
51/108

Chen*, Yu-Shan, A-Fen Huang, Ting-Yu Wang, and Ying-Rong Chen (2020),
“Greenwash and green purchase behavior: the mediation of green brand
image and green brand loyalty,” Total Quality Management and Business
Excellence, Vol. 31, No. 1/2, pp.194–209 (SSCI). (Impact Factor = 2.181)
Management Q3 113/217

Chen*, Yu-Shan, A-Fen Huang, Ting-Yu Wang, and Ying-Rong Chen (2019),
“Greenwash and green purchase behavior: the mediation of green brand
image and green brand loyalty,” Total Quality Management and Business
Excellence, (accepted, forthcoming) (SSCI). (Impact Factor = 1.526)
Management Q3 130/209

Chen*, Yu-Shan, Chun-Ming Lien, and Chin-ju Lee (2019) , 「The impacts
of internal and external environmental pressures on corporate performance
- the mediation role of green core competence」 , 企業管理學報 , 第 44
卷第 1 期 , 頁 53-73 。

Chen*, Yu-Shan, Cui Wang, Ying-Rong Chen, Wei-Yuan Lo, and Kuan-Ling
Chen (2019), “Influence of network embeddedness and network diversity
on green innovation: the mediation effect of green social capital,”
Sustainability, Vol. 11, No. 20, pp.5736-5752 (SSCI). (Impact Factor =
2.592) Environmental Studies Q2 44/116. (MOST 104-2410-H-305-070-
MY2)

Chen*, Yu-Shan, Shu-Hsien Lin, Chun-Yu Lin, Shu-Tzu Hung, Chih-Wei
Chang, and Ching-Wen Huang (2020), “Improving Green Product
Development Performance from Green Vision and Organizational Culture
Perspectives,” Corporate Social Responsibility and Environmental
Management, Vol. 27, No. 1, pp.222-231 (SSCI). (MOST 106-2410-H-
305-054-SS3 and MOST 106-2410-H-305-054–SS3)(Impact Factor =
5.513), Business Q1(20/217).

Chen*, Yu-Shan, Shu-Hsien Lin, Chun-Yu Lin, Shu-Tzu Hung, Chih-Wei

- Chang, and Ching-Wen Huang (2019), “Improving Green Product Development Performance from Green Vision and Organizational Culture Perspectives,” *Corporate Social Responsibility and Environmental Management*, (accepted, forthcoming) (SSCI). (Impact Factor = 4.918), *Management Q1*(17/210).
- Chen*, Yu-Shan, Tai-Wei Chang, Hung-Xin Li, and Ying-Rong Chen (2020), “Green brand affect and green purchase intentions: the mediation effects of green brand associations and green brand attitude,” *International Journal of Environmental Research and Public Health*, Vol. 17, No. 11, pp.1-17 (SCIE). (Impact Factor = 2.468)
- Chen, Yu-Shan, I-Ya Chen, Yi-Yuan Chen*, Hua-Dong Luan, Yi-Nung Peng and Chin-Tang Hsieh (2020), “The Motivation of Consumer Participation on Circular Economy and the Effect to Value Creation,” *Journal of Business Administration*, (accepted, forthcoming) (EconLit / EBSCO / ABI / ProQuest).
- Chi Jui Huang and Tser yieth Chen (2019). Embedding a Roadmap into the Scenario Planning of Environment Management in Taiwan. *Journal of Business Administration*. 44(1) p. 28-51. (ABI, Scopus). DOI: 10.3966/10259627201903044100.
- Chi-Jui Huang, Wen-Chyan Ke, Chih-Pin Lin, (2020), Does materiality of CSR matter for financial performance in Taiwan? *Journal of Financial Studies*, Accepted (TSSCI)
- Jixia Yang, Kuo Hui Frank Yu, Chi-Jui Huang (2019). Service employees’ concurrent adaptive and unethical behaviors in complex or non-routine tasks: The effects of customer control and self-monitoring personality. *Asia Pacific Journal of Management*, doi.org/10.1007/s10490-018-9567-y, Springer, vol. 36(1), pages 245-273, (SSCI, IF=2.474; 57/192, Management).
- Tser-Yieth Chen and Chi-Jui Huang (2019), A Two-Tier Scenario Planning Model of Environmental Sustainability Policy in Taiwan. *Sustainability*, 11(8), 2336; p.1-21, (SSCI, IF=2.075) doi:10.3390/su11082336.
- Tser-Yieth Chen and Chi-Jui Huang (2019), Dual Pathways of Value Endorsement in Green Marketing, *Sustainability*, 11(8), 2419; p.1-23, (SSCI, IF=2.075) doi:10.3390/su11082419.
- Wu*, Tai-Hsi, Yu-Shan Chen, Wenfang Shang, Jung-Tang Wu (2018), Measuring energy use and CO2 emission performances for APEC economies, *Journal of Cleaner Production*, Vol. 183, pp. 590-601 (SCI). (Impact Factor = 6.395) *Green & Sustainable Science & Technology Q1*:

6/33; Environmental Sciences Q1: 18/251; Engineering, Environmental Q1: 7/50

Yen-Chen Huang and Chien-Ming Lee (2019), Designing an Optimal Water Supply Portfolio for Taiwan under the Impact of Climate Change: Case Study of the Penghu Area, Journal of Hydrology, 573, p.235-245.(SCI)(IF:4.314) (2014-2018)

邱慈觀、黃啟瑞 (2019) 治理結構對企業社會責任的影響。中山管理評論 (TSSCI) 27(3), p.511-552

黃啟瑞，陳澤義，張彤，林志斌，林欣美 (2019 年)。探討影響銀行企業社會責任之因素：以兩岸三地為例。東吳經濟商學學報。98 期，頁 31-66。(ABI)。

池祥麟(2019)。合作金融、普惠金融與金融科技。儲蓄互助社雜誌，118，6-19。

池祥麟、吳泰熙、陳宥杉、黃啟瑞、柯文乾、林美珍、朱炫璉、詹場*，2019，台灣永續價值指數之建構方法及投資績效，企業管理學報，第 44 卷第 1 期，1-27 頁。(企業管理學報屬於 EconLit ABI 期刊)。

李堅明、林書吟 (2019 年)。綠色融資策略比較-以直接與間接利差補貼為例。農業經濟叢刊，(已接受)。(EconLit)

李堅明、洪悅容、謝亞婷、陳贊宇 (2019 年)。低碳生活實踐模式之研究 - 建構負碳商品與個人碳交易商業模式。企業管理學報，臺北大學。(已接受)(EBSCO、ABI/INFORM 與 ProQuest 等國際索引)具體營運貢獻

(二) 具體營運貢獻

1. 持續編輯促進企業永續發展及社會責任投資的台灣永續價值指數 (TWSVI)

透過由具有公正、客觀、專業特質的學術機構－國立臺北大學商學院企業永續研究團隊與永續基金會，結合國際頂尖學術期刊之學理與財務績效指標，建構與國際知名 ESG 評比機構接軌之評量機制的途徑，讓我國資本市場能有效發揮永續績效優良企業之功能，進而促使優質企業成為投資大眾之好投資標的，並能直接反映至其股票的投資績效。期盼以實際行動將學術力量回饋社會，促進企業及社會邁向永續的善循環，目前已逐漸累積具體成果，漸漸受到臺灣證交所、臺灣指數公司及實務界之重視及肯定。並已在 2019/1/23 與德國指數公司 Solactive 合作，並從 2019/1/23 開始在指

數值在 Reuters (ticker: .TWSVI) 與 Bloomberg (ticker: TWSVI Index)資訊平台上線，讓投資人及時掌握 TWNSI 指數的變動趨勢。未來規劃和 S&P 簽約，在其資訊平台上線。

2. 本中心於 2019 年 11 月和永續基金會及勤業(Deloitte)、資誠(PwC)及安永(EY)三大會計師事務所及英國標準協會(BSI)等機構，合辦全球企業永續論壇 (Global Corporate Sustainability Forum, GCSF)

本次年度永續盛典就聯合國永續發展目標(SDGs) 17 項目標，邀集全球 10 餘國，20 多位國外講座貴賓，分別以 SDGs for Peace & Partnerships、Planet、Prosperity、People 等四大主軸辦理專題演講，辦理多達 16 場次研討會、工作坊及公民咖啡館等多元形式的論壇分場。論壇系列匯集全球趨勢議題，連結全球各界的學術研究脈絡、最新趨勢，並與國際社會進行交流。本中心是合辦 GCSF 機構中的唯一學術機構，負責企業社會責任(CSR)學術研討會，從而對建立本校商學院之特色及優勢非常有助益。今年(2020) 11 月 18 日至 19 日將在圓山飯店舉辦第 3 屆 GCSF，目前積極籌劃中。

3. 與國泰金控和國泰期貨簽約，執行 ESG 個股報告及 SRI 調查計畫

本中心企業永續研究團隊的努力逐漸受到實務界重視及信賴，未來將在延攬政府及企業之研究計畫努力，目前已與國泰金控進行 ESG 產學合作計畫，執行「ESG 研究報告合作研究」、「臺灣責任投資執行情形調查」研究計畫，參與的研究成員是本中心研究團隊為主企業永續研究團隊。根據國際學術頂尖期刊(包括財務金融、會計、管理等等領域)的立論基礎，並與世界主流之永續績效評選準則趨勢同步，建制臺北大學 ESG 評鑑，並以中心 ESG 評鑑為框架，深入分析國內上市櫃公司 ESG 實際作為。個股 ESG 報告的三個特色，分別是

- (1) 產學合作 ESG 研究；
- (2) 提供 ESG 評等與產業 ESG 的比較；
- (3) 提供 ESG 行動力分析，亦針對該企業 ESG 各主要面向可能對其未來機會與風險進行投資的分析。

希望運用「在地化優勢」，從本土資本市場對於 ESG 研究的需求出發，將研究的覆蓋率放大，並且在個別企業 ESG 報告的細緻度更加強化，目的是滿足台灣資本市場在 ESG 研究的需求，協助並有效填補不論是外資法人或是本土機構法人在台股 ESG 報告的需求缺口。

4. 2020/7/7 ESG 研究報告合作研究

研究成果

甲方及計畫主持人與共同主持人應依本計畫書之規定期間及內容繳交研究成果。計畫書未有規定者依下列方式為之：

- (1) 甲方及計畫主持人與共同主持人應於本合約經雙方簽署生效後一個月內，交付乙方 20 份有關本研究之期初研究成果報告。
- (2) 甲方及計畫主持人與共同主持人應於民國 109 年底期中研究成果完成後，交付乙方 40 份有關本研究之期中研究成果報告。
- (3) 甲方及計畫主持人與共同主持人應於民國 110 年底期中研究成果完成後，交付乙方 100 份有關本研究之期末研究成果報告。

5. 2020/7/7 臺灣責任投資執行情形調查

合作內容：

甲方應依據 Global Sustainable Investment Alliance (GSIA) 調查責任投資金額之方法，於民國 109 及 110 年分次進行年度台灣機構投資人的責任投資

金額及執行情形，調查內容包括但不限於以下四項：

- (1) 針對 Global Sustainable Investment Review 報告所列七種責任投資作為之投資金額
- (2) 於各資產類別的責任投資金額
- (3) 責任投資執行情形(包括但不限於相關政策訂定、簽署盡職治理守則、與投資對象議合)
- (4) 投資機構對氣候變遷之看法及相關因應作為本研究之內容

6. 與台灣永續能源研究基金會合作，開設企業永續管理師培訓班課程

為擴大企業社會責任之執行效益，結合企業推動永續經營之各項有意義措施，進一步提升全民對企業如何善盡社會責任與推動永續經營之認知，同時強化國內不同產業之企業對社會責任與永續經營相關議題之關切，本中心與台灣永續基金會合作，以公益運作機制藉由教育力量之方式共同協助企業善盡社會責任，使企業社會責任得以經由企業追求永續發展之途徑予以具體落實。與永續本基金會成為一起推動下列工作與活動之策略夥伴：

- (1) 開設企業永續菁英培訓班課程。
- (2) 開設相關專業證照及訓練課程。
- (3) 開設企業在職訓練或專班課程。
- (4) 提供企業專業諮詢及診斷。

7. 延攬校內權威擔任本中心諮詢顧問及研究人員

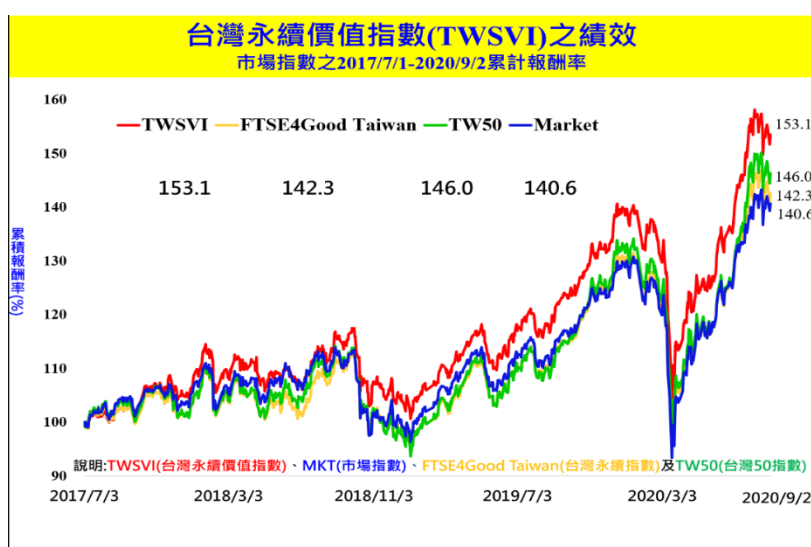
包括國內輔導企業成為 DJSI 成份股之權威許家偉博士、陳昇鴻博士，以及 CDP 權威陳耀德博士等，完整的團隊詳參「參與中心之營運人員」。

8. 目前已確定與指數公司合作，預計明年與指數公司合作開發 ESG 氣候變遷與環境永續相關議題之評鑑題組(如附件二)。

9. 已經陸續與永豐金證券、CMoney、國泰投信、玉山證券、TEJ 等機構交流，尋求合作機會。

(三) 台灣永續價值指數(TWSVI) 回測績效

(1) TWSVI、FTSE4good Tip Taiwan ESG Index、TW50、市場指數之累計報酬率

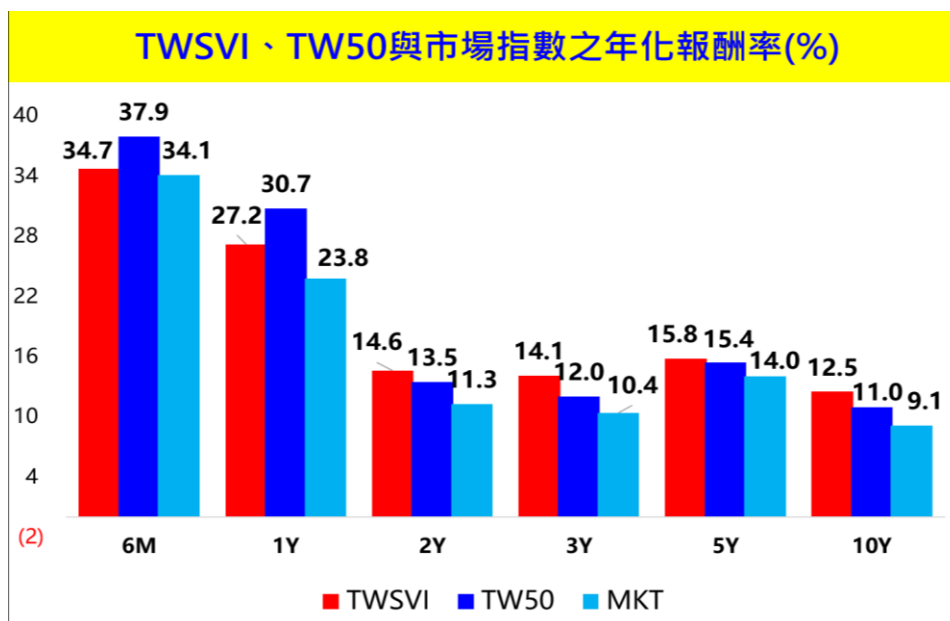


(2) TWSVI 與相關指數之績效簡表

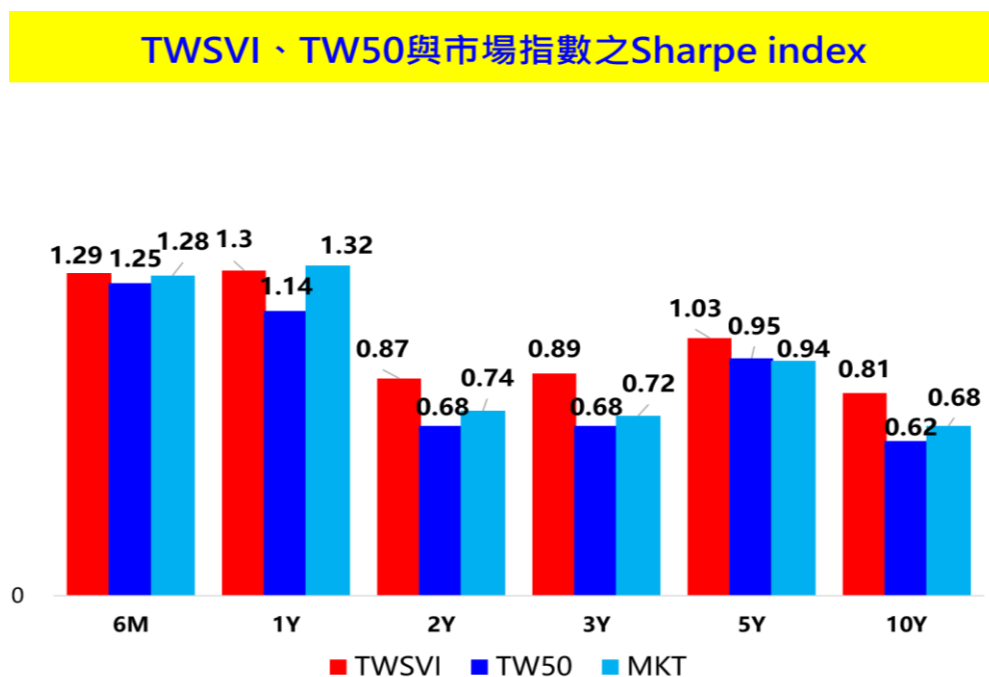
TWSVI與相關指數之績效比較 2017/7/1-2020/9/2				
指數	TWSVI	FTSE4Good Taiwan	TW50	Market
Return (%)	15.20	12.93	13.96	12.42
Jensen Alpha (%)	6.73	4.09	4.54	3.66
Treynor Index (%)	15.09	12.15	12.31	11.77
Sharpe Index	0.93	0.76	0.76	0.75
Beta	0.96	1.01	1.08	1
STD(%)	15.60	16.19	17.41	15.69

以上報酬皆含現金股利

(3) TWSVI 與相關指數之年化報酬率比較



(4) TWSVI 與相關指數之風險比較

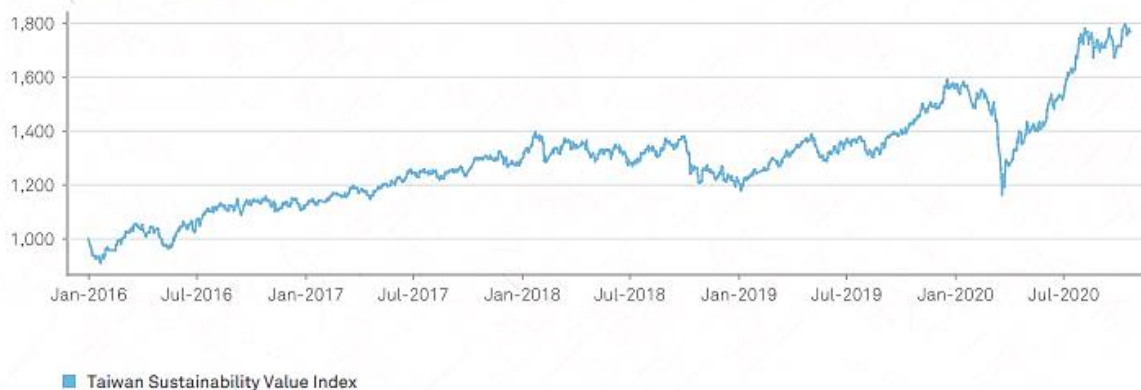


(5) TWSVI 於 S&P 官網之介紹

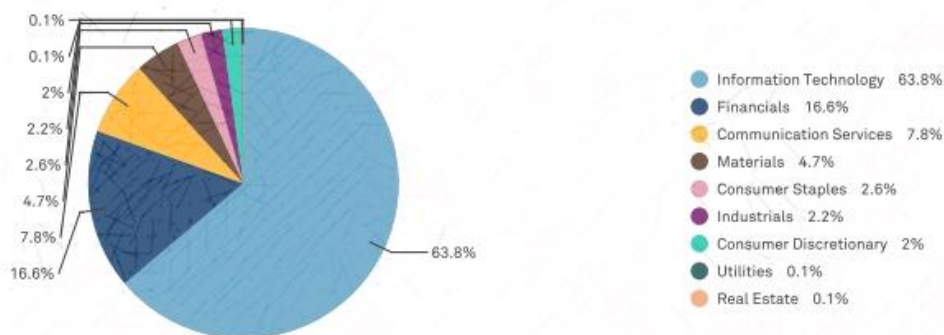
已於 2019/9/30 在 S&P 官網上線，並同步於 Bloomberg 與 Reuters 上線

- S&P 官網連結：
- 1. National Taipei University College of Business：
<https://www.spglobal.com/spdji/en/custom-index-calculations/national-taipei-university-college-of-business/all/#overview>
- 2. Taiwan Sustainability Value Index：
<https://www.spglobal.com/spdji/en/custom-indices/national-taipei-university-college-of-business/taiwan-sustainability-value-index/#overview>
- Bloomberg (Ticker: NTPUTSI)
- Reuters (Ticker: .NTPUTSI ; .NTPUTSIN ; .NTPUTST)

Historical Performance



Sector* Breakdown



六、財務規劃 (包括：未來規劃及已投入經費)

(一) 工作項目規劃

工作項目	計畫年次		
	第 1 年	第 2 年	第 3 年
ESG 評鑑作業	→		
國泰產學合作計畫- ESG 個股報告(258 萬)	→		
國泰產學合作計畫- SRI 調查 (98 萬)	→		
GCSF (全球永續論壇)	→		
指數公司合作案		→	
其他企業產學合作或實習專案		→	

(二) 109 年度已投入經費

項目	經費	期間
專任研究助理(兩位)	約\$316,000 元	2020/09-2020/12
研究助理(一位)	\$48,000 (一個月\$8,000)	2020/01-2020/6
兼任研究助理(兩位)	\$100,000 (一個月\$10,000)	2020/08-2020/12
兼任研究助理(三位)	\$120,000 (一個月\$10,000)	2020/09-2020/12

註：助理經費為大致估算，只包含薪資(未計算勞健保及年終)。

(三) 109 年度預計再投入經費

項目	經費	期間
GCSF (全球永續論壇)	約\$200,000 元	2020/11
中心網站	\$70,000	2020/11
兼任研究助理(15 位)	約\$200,000 元	2020/11-2020/12

(四) 109 年產學合作案-國泰金控與國泰期貨

項目	經費	期間
國泰期貨- ESG 個股報告	約 258 萬元	2020/07-2021/12
國泰金控- SRI 調查	約 98 萬元	2020/07-2021/12
國泰金控- ESG 學術與實務論壇計畫	約 100 萬元	預計明年簽約

(五) 經費來源

本中心之經費來源主要由與國泰金控和國泰期貨之產學合作計畫支付，亦使用商學院補助款項與設備費用來舉辦 GCSF (全球永續論壇)、架設中心網站。

七、預期成果

(一) 拓展 ESG 相關業務與研發能量

提升國立臺北大學、產官學合作夥伴與本中心之聲望，促進台灣上市櫃企業重視 ESG 等企業永續發展議題，並符合金管會綠色金融 2.0 與公司治理 3.0 發展藍圖

(二) 營造友善環境、加強推動產學合作

鼓勵教師致力將學術的基礎性研究延伸至產業界的實務應用，落實研究成果於產業營運。爭取接受企業委託進行技術、產品研發，以技術發展與產業界接軌，開創產學合作新局。

附件一

國立臺北大學企業永續發展研究中心設置辦法

國立臺北大學(以下簡稱本校)為迎接全球永續發展趨勢之需要，設置「國立臺北大學企業永續發展研究中心」(以下簡稱本中心)」，並依據「國立臺北大學校級中心管理辦法」規定，訂定「國立臺北大學企業永續發展研究中心設置辦法」(以下簡稱本辦法)」。

第一條 本中心置主任、執行長各一人，並設指數編製、證照推廣、教育培訓及顧問輔導四組，各組置組長一人。主任、執行長及各組組長，由本校專任教師兼任，均為無給職。

第二條 本中心為執行相關業務或研究計畫，得置研究人員或諮詢顧問若干人，由本中心主任就本校教師或校外專業人士提請校長聘兼，所需聘用經費由本中心自行籌措支付。

第三條 本中心得依業務需要，置研究助理若干人，由中心主任報請校長聘之，受中心主任之監督，處理一般行政事宜，所需聘用經費由本中心自行籌措支付。

第四條 本中心設指數編製、證照推廣、教育培訓及顧問輔導四組，各組職掌如下：

- (一)指數編製組：負責本中心之指數編製相關業務。
- (二)證照推廣組：負責本中心之證照推廣相關業務。
- (三)教育培訓組：負責本中心之教育培訓相關業務。
- (四)顧問輔導組：負責本中心之顧問輔導相關業務。

第五條 本中心主任由商學院院長就本院教授、副教授級教師中，向校長推薦任，任期三年，得連任一次。執行長及各組組長由本中心主任就助理教授以上教師中，簽請校長核定。

第六條 本中心得承接委託產學合作、指數編製、證照推廣、教育訓練和顧問輔導等相關業務，經費收支依有關規定辦理。

第七條 本辦法經本校校務會議通過，報請教育部核定後實施，修正時亦同。

第八條 本中心應於每學年終了提出年度工作報告。

附件二 (此為內部重要機密文件，請勿外流)

<第一次指數合作討論會議-會議紀錄>

壹、日期：2020/10/12 (一) 15:00-17:00

貳、地點：臺灣指數公司創富會議室

參、主持人：臺灣指數公司陳文練副總

肆、出席人員：

■ 臺灣永續價值評鑑團隊(以下簡稱評鑑團隊)：臺北大學商學院池祥麟院長、臺北大學商學院吳泰熙財務副校長、臺北大學商學院企業永續發展研究中心詹場主任、臺灣永續能源研究基金會王彬墀副秘書長、臺灣永續能源研究基金會璩文浩副理(會計師)

■ 臺灣指數公司(以下簡稱指數公司)：陳文練副總、徐曉薇副總監、王勝宏(研發部)、張立渝(客關部)

伍、紀錄：客關部 張立渝

陸、內容：

一、前次會議討論說明

1. 說明：略 (請詳議程如附件一，以下同)。
2. 結論：同意。

二、本次討論事項

(一)討論指數合作之分工模式

1. 說明：略

結論：同意；同時為呼應政府政策暨促進台灣永續責任投資，本案期以兼顧獨立、客觀及公正性之原則共同進行永續主題相關之指數合作。

(二)討論編製指數所需之評鑑資料

1. 受評公司涵蓋範圍：評鑑團隊考量目前本年度作業規劃，建議初步暫定受評公司範圍為該年度依照證交所(「上市公司編製與申報企業社會責任報告書作業辦法」，簡稱作業辦法)之規定發布企業社會責任報告書(CSR 報告書)、加上自願於該年度9月30前上傳CSR

報告書至公開資訊觀測站(MOPS)之上市公司。另評鑑團隊建議，資料截止日訂為該年度9月30日前，主係考量作業辦法規定企業申報期限至遲為該年度9月30日，同時亦考量資料品質及觀察到企業遲交情形大幅改善(如2017年至2019年企業於9月30日後才完成申報數量逐年遞減)，故建議資料截止日訂為9月30日。

2. 各題項之評分準則或規則：指數公司建議可考慮研究不同題項之重大性，提高鑑別度，同時可進一步對產業進行細分，以增加可比較性。
3. 各題項之評鑑週期：評鑑團隊表示目前規劃一年評鑑一次，同時考慮增加複核機制，如擴大 scale、增加題項個別權重、評鑑結果之敏感度分析等，以兼顧評鑑品質。指數公司表示尊重並配合評鑑團隊規劃，並建議可於下次會議進行討論。
4. 上市公司各題項之得分依據資料：評鑑團隊表示，目前評鑑資料來源除 CSR 報告書外，亦參考政府及相關獨立民間單位之公開資料，評鑑資訊中亦於各題項之評分指引，說明得分、分數級距...等依據來源。
5. 受評公司之各題項評鑑結果：評鑑團隊將於會後協助提供題項及一公司之範例供指數公司參考。
6. 各題項評鑑結果之歷史資料供開發新指數回測之用：評鑑團隊將協助補足2017年至2019年該年度上傳 CSR 報告書至 MOPS 之上市公司，包括依作業辦法申報 CSR 報告書及自願申報之上市公司。

(三)討論新指數之可能主題、評鑑架構

1. 討論指數主題：指數公司表示，考量目前國內已發行之永續指數金融商品多以 ESG 整合議題為主，近期氣候變遷與環境永續相關議題獲各界高度關注，市場需求似有補足空間，因此考慮優先以「友善環境」主題為指數合作之發展方向。評鑑團隊表示尊重指數公司規劃，並提供目前蒐集整理之國際永續主題指數供未來合作參考(如附件二簡報)。

2. 討論主題指數所需之評鑑模型架構：評鑑團隊針對「友善環境」之議題重新檢視企業永續績效評比架構(SEED)四大構面中符合主題之題項，非金融業約 116 題、金融業約 71 題。另為因應目前環境永續相關單位正進行修法，亦將檢視現有題項是否需進行擴充及增補。指數公司表示，目前有許多國際評鑑機構皆有針對臺灣企業進行評比，如評鑑團隊能在評比架構內深入增加國內法規或重要機構之相關公開資訊，且與時俱進，可展現台灣在地評鑑之價值與特色。

三、 會議結束：17:00

國立臺北大學商學院國際企業研究所

109 學年度第 1 學期所務會議記錄

時 間：民國 109 年 10 月 21 日(三) 中午 12 點 00 分

地 點：國企所會議室(商學大樓 8F-25 室)

主 席：陳澤義所長

記錄：徐彬

出席人員：如簽到單

壹、 主席報告

貳、 討論案由
(略)

案 由三：擬請討論本所學位授與辦法。
說 明：本所學位授與辦法(附件 3)。
決 議：照案通過。

參、臨時動議

肆、散 會：

國立臺北大學國際企業研究所學位名稱暨授予要件實施辦法

109 年 10 月 21 日 所務會議修正通過

109 年 10 月 22 日院務會議通過

第一條 依據「國立臺北大學學則」訂定本辦法。

第二條 本所學位授予為碩士學位。

第三條 本所中文、英文學位名稱及實施年度如下：

碩士班：商學碩士，Master of Business Administration，自 98 學年度實施。

第四條 修讀碩士學位學生，須符合本校學則第七十二條規定，並符合本所碩士班修業辦法，另經碩士學位考試委員會考試通過者，授予碩士學位。碩士班學生學位考試相關規定，依本校有關辦法辦理。

第五條 本辦法未盡事宜，悉依本校學則及有關法令之規定辦理。

第六條 本辦法應經本所所務會議及院務會議決議，提請教務會議審議通過後公告實施，修正時亦同。