

THE 填報的問題	架構	項目	說明	回覆資料彙整
15.2.1 - Does your university as a body support and/or organise events aimed to promote conservation and sustainable utilisation of the land, including forests and wild land?	SDG15 陸地生態	關於可持續利用土地的活動	支援或組織旨在促進土地(包括森林和荒地)保護和可持續利用的活動	● 質化資料 1. 本校 109 年線上簽核公文佔收創文之比例均達 99% 以上，大量減少紙張之使用。 In 2020, the online approval of official documents accounted for more than 99% of the income and creation of documents, which greatly reduced the use of paper. 2. 總務處每年辦理招標案件 120 件以上，電子領標率 100%、公開取得電子報價單案件占 10% 以上、每年採購綠色環保商品比率達 100%。 The Office of General Affairs handles more than 120 bidding cases each year, with an electronic bidding rate of 100%, publicly obtained electronic quotation cases accounting for more than 10%, and the annual procurement rate of the green products up to 100%. ● 相關法規及佐證資料 https://doc.nuu.edu.tw/var/file/79/1079/img/245/947517328.pdf
15.2.3 - Does your university as a body work	SDG15 陸地生態	維護和豐富現存生態系統的生物多樣性(直接措施)	直接致力於維護和擴大現存的生態系統及其動植物多樣性，特別是受到威脅的生態系統	● 質化資料 Yes 1. 本校進行校內植栽復育，優先選擇當地天然演替下之潛勢植被，避免引進外來種，干擾當地之原生生態系統；另在選擇

directly to maintain and extend existing ecosystems and their biodiversity, of both plants and animals, especially ecosystems under threat?				樹種與植被時，也優先選擇演替期程、生長快速與適應力強者。 This school carried out planting restoration on the campus, give priority to the selection of potential vegetation under the local natural succession, and avoid introducing alien species to disturb the local land ecosystem. In addition, when choosing tree species and vegetation, priority is also given to the succession period and rapid growth, and those with strong adaptability. 2. 校區建築或公共建設興建時，其照明設施應妥善規劃設計，避免直接照射樹林，或採開放方式配置，以減輕對生態物種之干擾。 The lighting facilities of buildings and public construction on the campus have been designed to avoid direct exposure to the woods, or select an open configuration to reduce the interference to wildlife. 3. 進行陸域生態環境調查，以了解陸域生態環境之變化趨勢，若發生異常現象，應研擬具體改善措施，以減少對生態環境之危害。 This school has conducted a land ecological survey to understand the changing of the land environment. If an abnormal phenomenon occurs, specific improvement measures should be developed to reduce the harm to the ecological environment. ● 相關法規及佐證資料 國立聯合大學八甲校區開發計畫變更環境影響說明書
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				https://cga.nuu.edu.tw/var/file/72/1072/attach/74/pta_35213_999595_77591.pdf
15.2.4 - Does your university as a body offer educational programmes on ecosystems (looking at wild flora and fauna) for local or national communities?	SDG15 陸地生態	生態系統教育方案	為當地或國家社區提供生態系統教育專案(觀察野生動植物)	● 質化資料 ● free ✓ 環安系開設生態學，使了解生態系統之基本概念並進一步探討環境生態相關議題 ✓ The Department of Safety, Health and Environmental Engineering offered a course on Ecology to understand the basic concepts of the ecosystem and further discuss environmental and ecological issues. ✓ 土木系開設生態工法、工程地質等課程，將生態考量事項融入既有治理工程中，以加強生態保育措施之落實，減輕公共工程對生態環境造成的負面影響。 ✓ The Department of Civil and Disaster Prevention Engineering offers courses such as Ecological Engineering and Engineering Geology to integrate ecological considerations into existing governance projects to strengthen the implementation of ecological conservation measures and reduce the negative impact of public projects on the ecological environment. ✓ 本校環境教育及永續發展中心於今年 109 年 7 月辦理「109 年苗栗縣環境教育志工增能培訓課程(24 小時)」，其中即有「生態保育」課程，說明國內外生態保育之問題及發展演變，再衍生至台灣動植物資源及生態保育現況之探討，參與訓練

				學員共 33 人次。 ✓ The Center of Environmental Education and Sustainable Development conducted the “2020 Miaoli County Environmental Education Volunteer Training Course (24 hours)”. Among the courses, there was a course on “Ecological Conservation” that explained the domestic and foreign ecological conservation issues and development evolution, and then the current situation of Taiwan's animal and plant resources and ecological conservation were derived from the discussion. In total, 33 trainees participated in the training. ● 相關法規及佐證資料 國立聯合大學環境教育及永續發展中心 https://cee.404.csie.nuu.edu.tw/ https://www.facebook.com/groups/249127451929282/
15.2.5 - Does your university as a body offer educational programs/outreach for local or	SDG15 陸地生態	農業和旅遊業土地可持續管理的教育項目	為當地或國家社區提供農業和旅遊業土地可持續管理的教育專案/外展服務	● 質化資料 free Prof. Tikuang Hou from the Department of Mechanical Engineering devoted in the research and development of new agricultural technologies to protect and maintain the ecological territory. Associate Professor Nienhsiang Chou from the Department of Information Engineering and the local community carried out the Echinacea Precision Agriculture Project and the Lemongrass Intelligent Agriculture Project.

national communities on sustainable management of land for agriculture and tourism?				● 相關法規及佐證資料 https://www.facebook.com/jkmarket.com.tw/posts/484931378669225/ https://www.csie.nuu.edu.tw/%E5%91%A8%E5%BF%B5%E6%B9%98%E8%80%81%E5%B8%AB%E7%9A%84%E8%91%97%E4%BD%9C%E8%A8%88%E7%95%AB/
15.3.1 - Does your university as a body have a policy to ensure the conservation, restoration and sustainable use of terrestrial ecosystems	SDG15 陸地生態	可持續利用、保護和恢復土地(政策)	確保保護、恢復和可持續利用與大學相關的陸地生態系統的政策，特別是森林、山區和旱地	● 質化資料 ● Yes 1. 本校進行校內植栽復育，優先選擇當地天然演替下之潛勢植被，避免引進外來種，干擾當地之原生生態系統；另在選擇樹種與植被時，也優先選擇演替期程、生長快速與適應力強者。 This school carried out planting restoration on the campus, give priority to the selection of potential vegetation under the local natural succession, and avoid introducing alien species to disturb the local land ecosystem. In addition, when choosing tree species and vegetation, priority is also given to the succession period and rapid growth, and those with strong adaptability. 2. 本校植被栽植避免僅選擇單一樹種，而應以群植方式進行，以創造多樣的野生動物棲地環境。此外，保育區內植栽復育

associated with the university, in particular forests, mountains and drylands?				或予以保存之林木，應定期維護整理，以維持生態棲息環境之完整性。 Vegetation planting on our campus avoids selecting only a single species, but should be carried out in a group planting manner to create a diverse habitat environment for wildlife. In addition, forest trees that are replanted or preserved in the conservation area should be regularly maintained and arranged to maintain the integrity of the ecological habitat. ● 相關法規及佐證資料 國立聯合大學八甲校區開發計畫變更環境影響說明書 https://cga.nuu.edu.tw/var/file/72/1072/attach/74/pta_35213_999595_77591.pdf
15.3.2 - Does your university as a body have a policy to identify, monitor and protect any IUCN Red Listed species and	SDG15 陸地生態	監測列入IUCN等保護名錄的物種(政策)	識別、監控和保護任何受校園日常運行影響的世界自然保護聯盟瀕危紅色名錄(IUCN Red Listed)物種和國家保護名錄物種的政策	● 質化資料 Yes 1. This school has carried out the ecological survey on the campus in 2020 and found that some species are identified as the IUCN Red Listed species or Wildlife Conservation Act Republic of China (Taiwan) list endangered and vulnerable species as follows. IUCN Red Listed species: ➤ Endangered, EN: <i>Keteleeria davidiana formosana</i> (臺灣油杉), <i>Calocedrus formosana</i> (臺灣肖楠), <i>Garcinia subelliptica</i> (菲島福木), <i>Chamaecyparis formosensis</i> (紅檜)

national conservati on list species with habitats in areas affected by the operation of your university?				➤ Vulnerable, VU: <i>Crossostephium chinense</i> (蕪艾), <i>Manis pentadactyla</i> (穿山甲) ➤ Near Threatened, NT: <i>Nageia nagi</i> (竹柏) Wildlife Conservation Act Republic of China (Taiwan) list endangered and vulnerable species ➤ II - Rare and valuable species (法定珍貴稀有野生動物): <i>Otus spilocephalus hambroeki</i> (黃嘴角鴉), <i>Manis pentadactyla</i> (穿山甲), <i>Spilornis cheela</i> (大冠鵟), <i>Accipiter trivirgatus formosae</i> (鳳頭蒼鷹) ➤ III - Other conservation-deserving species (法定其他應予保育之野生動物): <i>Lanius cristatus</i> (紅尾伯勞) ● 相關法規及佐證資料 生物多樣性生態調查報告 https://cga.nuu.edu.tw/var/file/72/1072/img/904/685750172.pdf
15.3.5 - Do es your university as a body collaborate with the local community , e.g.	SDG15 陸地生態	共享陸地生態系統合作	與地方社區合作，例如 通過夥伴關係，努力維 護共用的陸地生態系 統	● 質化資料 Yes Assist local tea farmers in the re-cultivation of tea gardens in Bajia tea area and promote smart agriculture. ● 相關法規及佐證資料 苗栗縣媒體事務中心: 苗市八甲茶園9公頃魯冰花盛開 邀民眾賞花、品茗、DIY 精油

through partnerships, in efforts to maintain shared land ecosystems?				https://media.miaoli.gov.tw/News_Content.aspx?n=2384&s=291508
15.4.3 - Does your university as a body have a policy, process or practice on waste disposal - covering hazardous materials?	SDG15 陸地生態	危險廢品的處理政策	制定包括危險物品的廢物處理政策 *危險物品：無論是單獨還是通過與其他因素的相互作用，任何可能對人類、動物或環境造成傷害的物品或試劑(生物、化學、輻射和/或物理形式)	● 質化資料 1. 化工系黃淑玲老師執行 109 科技部產學計畫－生物可降解熱塑性澱粉複合材料之研發，利用低成本的天生的高分子材料及農產廢棄物、可運用傳統塑膠加工機器加工、耐水性佳及穩定性高等特性，達到循環經濟之目的，並達成聯合國永續發展目標，使人類能永續生態系統使用。 Prof. Shu-Ling Huang from the Department of Chemical Engineering, implemented the 2020 Ministry of Science and Technology Industry-Academic Project — The research and development of biodegradable thermoplastic starch composite materials — using low-cost natural polymer materials and agricultural wastes, which can be processed by traditional plastic processing machines, have good water resistance, and show high stability, to achieve the purpose of circular economy as well as achieve the United Nations' sustainable development goals, so that mankind can use the sustainable ecosystem.

				2. 本校各單位實驗室廢棄物產出須於每月 5 日提出申報，送至本校環境保護暨安全衛生中心彙整並上網填報產出及貯存量，本校第一(二坪山)校區及第二(八甲)校區為依廢棄物清理法第 2 條與第 31 條公告之指定事業，清運前依規定檢送本校事業廢棄物清理計畫書至苗栗縣政府環保局核備後辦理清運，清運時協調合法之清運廠商作業，填具三聯單申報。 This school asks all laboratory waste output must be declared on the 5th of each month and sent to The Center of Environmental Education and Sustainable Development for collection and online reporting of the output and storage volume. The Erping Shan Main Campus and Bajia Campus are the designated enterprises, announced in accordance with Article 2 and Article 31 of the Waste Disposal Law. Before the disposal, the school's business waste disposal plan shall be checked and submitted to the Miaoli County Government Environmental Protection Bureau for approval before the disposal. We are expected to coordinate the disposal operation with the legally appointed clearing manufacturer during transportation, fill in declaration in triplicate, and follow the relevant operation process. ● 相關法規及佐證資料 1. 環境保護暨安全衛生中心:環境保護 https://epshcenter.nuu.edu.tw/p/412-1011-1207.php?Lang=zh-tw https://epshcenter.nuu.edu.tw/p/412-1011-1205.php?Lang=zh-tw
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15.4.1 - Does your university as a body have water quality standards and guidelines for water discharges (to uphold water quality in order to protect ecosystems, wildlife, and human health and welfare, etc.)?	SDG15 陸地生態	排水指南和標準	制定水質標準和排水指南(為保護生態系統、野生動物、人類健康與福祉而維護水質)	● 質化資料 1. The wastewater treatment plant of this school was designed to treat the daily average sewage 670 m³, which can fully fit practical needs (2020: 43,294 m³/y). 2. Almost 100% of the reclaimed water after sewage treatment is reused for plant irrigation in the vegetation on campus. Therefore, no discharged water is discharged outside after treatment, which can maintain a good aquatic environment. 3. The water quality of the reclaimed water after sewage treatment is as follows listed and stricter than the standards in Water Pollution Prevention and Control Law, BOD₅ ≤ 15 mg/L SS ≤ 10 mg/L COD ≤ 50 mg/L T-N ≤ 15 mg/L. ● 相關法規及佐證資料 環安中心水質淨化場 https://epshcenter.nuu.edu.tw/p/405-1011-18340,c1201.php?Lang=zh-tw
15.2.2 - Does your university	SDG15 陸地生態	可持續養殖而成的校園食物	制定政策確保校園食物是可持續養殖而成的	● 質化資料 Yes

as a body have policies to ensure that food on campus is sustainably farmed?				● 1. 學校有法規，請參閱以下連結，對衛生要求嚴謹 2. 學校的食材，來自永續的農業 (如雞、鴨、豬、牛和蔬菜等) NUU has very strict regulations in campus food sources, food safety and hygiene. In addition, the food on NUU's campus are 100% sustainably farmed, such as pigs, cows, chickens, ducks, vegetables, etc. ● 相關法規及佐證資料 https://stua05.nuu.edu.tw/p/412-1066-1637.php
15.3.3 - Does your university as a body include local biodiversity into any planning and development process	SDG15 陸地生態	將當地生物多樣性納入規劃和發展	將當地生物多樣性納入任何規劃和發展進程(例如：興建大樓)	● 質化資料 ● Yes 1. 本校於八甲校區開發完成後，保留海拔 200 公尺以上之次生林區並規劃為不可開發之保育區，以保有原生植物物種，並於其他綠地種植具水土保持功能之原生樹種且採用多層次之植生方式，以加速恢復原有之棲息環境，減少外來植物之引入。 While the development of the Bajia campus is completed, the secondary forest area with an altitude of more than 200 meters has been reserved and planned as a conservation area that cannot be

(e.g. construction of new buildings)?				developed to preserve native plant species. In other green areas, plant native tree species with soil and water conservation functions in the multiple levels to accelerate the restoration of the original habitat and reduce the introduction of exotic plants. 2. 本校新建大樓，會考量目前所在地區是否有特殊保護動植物物種，以做好環教教學教育。 In the new building of our school, we will consider whether there are special protected animal and plant species in the area, so as to do a good job in environmental teaching and education. ● 相關法規及佐證資料 國立聯合大學八甲校區開發計畫變更環境影響說明書 https://cga.nuu.edu.tw/var/file/72/1072/attach/74/pta_35213_999595_77591.pdf https://cga.nuu.edu.tw/p/405-1072-37031,c5231.php
15.3.4 - Does your university as a body have a policy to reduce the impact of alien species on	SDG15 陸地生態	減少外來物種影響的政策	減少外來物種對校園影響的政策	● 質化資料 Yes 1. 對於外來種植物及生物，本校與相關團體保持聯絡，適時參加相關教育訓練，於校園環境如遇到外來種植物或生物，必要時邀請專家指導。 For exotic plants and organisms, our school keeps in touch with relevant organizations and participates in relevant education and training in a timely manner. If you encounter exotic plants or organisms in the campus environment, invite experts to guide if

Campus?				necessary. 2. 本校於八甲校區開發完成後，保留海拔 200 公尺以上之次生林區並規劃為不可開發之保育區，以保有原生植物物種，並於其他綠地種植具水土保持功能之原生樹種且採用多層次之植生方式，以加速恢復原有之棲息環境，減少外來植物之引入。 While the development of the Bajia campus is completed, the secondary forest area with an altitude of more than 200 meters has been reserved and planned as a conservation area that cannot be developed to preserve native plant species. In other green areas, plant native tree species with soil and water conservation functions in the multiple levels to accelerate the restoration of the original habitat and reduce the introduction of exotic plants. ● 相關法規及佐證資料 1. 生物多樣性生態調查報告 https://cga.nuu.edu.tw/var/file/72/1072/img/904/685750172.pdf 2. 國立聯合大學八甲校區開發計畫變更環境影響說明書 https://cga.nuu.edu.tw/var/file/72/1072/attach/74/pta_35213_999595_77591.pdf						
15.4.2 - Does your university as a body have a	SDG15 陸地生態	減少塑料垃圾的政策	制定減少校園塑膠垃圾的政策	● 量化資料： <table><tr><td></td><td>2019</td><td>2020</td></tr><tr><td>General waste (t/y)</td><td>12,253</td><td>9,881</td></tr></table> ● 質化資料 1. 本校已配合政府推行減少塑膠使用，超商、餐廳不提供塑膠		2019	2020	General waste (t/y)	12,253	9,881
	2019	2020								
General waste (t/y)	12,253	9,881								

policy on reducing plastic waste on campus?				吸管、塑膠袋，辦公室宣導，垃圾及塑膠減量使用。 The school has cooperated with the government to reduce the use of plastic. Superstores and restaurants do not provide plastic straws and plastic bags. We also implemented the promotion of garbage and plastic reduction within the office. ● 相關法規及佐證資料 https://hwms.epa.gov.tw/dispPageBox/onceOff/onceOffList.aspx?ddsPageID=EPATWH1
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