C　Both systems have a user-interface with at least two languages (Japanese and English).

D　Both systems can manage the user's role such as that of a student, faculty／administrative staff member and administrator. Both systems allow the user to play multiple roles (e.g. a staff member and administrator). The functions which the user can use depend on the user's role. The faculty staff members can test the functions of both systems for students by viewing the graphical user-interface for students. Similarly, the administrative staff members can test the functions of both systems for students and faculty staff.

E　Both systems can link to the ID management system and the integrated authentication system which are currently used in TUAT. If both systems provide a function that allows a guest faculty staff to access both systems without having to access the TUAT's authentication system, the detailed information of the function is desired.

F　The data linkage (data import and export) between the learning management system and the academic affairs system as well as between both systems and other information systems (including currently used ones) in TUAT must be provided. The specification of data linkage should be determined based on discussion with TUAT. In principle, the data linkage and data updating should be automatically conducted at night. The data linkage is conducted in real time as far as possible.

G　The learning management system allows faculty／administrative staff to manage lectures with the following functions: editing syllabi, checking attendance, uploading lecture materials, management of examination and assignment, replying to questions from students, managing questionnaires, reporting students' grades, etc. The learning management system allows faculty／administrative staff to export various data of lectures (e.g. student's grades) as a CSV file format such that the exported data can be used in other software. The learning management system can import the data which is exported from the learning management system currently used in TUAT (i.e., Google Classroom, and Moodle).

H　The learning management system allows students to browse e-portfolio to view the following : their learning history (e.g., grade records, course registration history (own department, other departments, add-on programs and etc.)) ; status of assignment submission ; teaching assistant employment records ; scholarship application documents ; research activity history (research title, research plan, research supervision, research progress report, thesis, research notes, conference participations, conference presentations, academic papers, books, intellectual properties, references, grant proposals, and etc.) ; overseas activity history (overseas training, international research collaborations, overseas academic researches, and etc.) ; off-campus social activity／entrepreneurship activity history (internship, workshop participation, enterprise startups, commercialization, required training, business contest participation, volunteer activities, and etc.) ; and job recruitment history, etc. The students can also use the e-portfolio to browse and organize the above-mentioned items and to improve their learning, career path and documentation writings.

I　The learning management system provides functions for students to view audio／video lectures on demand. The on-demand audio／video lecture function may be built using YouTube, but the function must be available from the portal site.

J　In order to perform learning analytics to data stored in both systems in future, it is desirable that both systems have a function or an extension which enable to connect both systems to a learning record store (LRS). It is desirable that data stored in both systems can be converted to a file format(s) which is suitable for the learning analysis and institutional research (e.g., xAPI file format).

K　The academic affairs system should provide the equivalent functions to that provided from the academic affairs system currently used in TUAT (i.e., SPICA). The functions include managements of student registration, syllabi, course registration, grades, questionnaires, tuition fee, exemption of tuition fee, issuance of certificates, and student health. The academic affairs system can be customized for the data linkage between the system and other systems such as the certificate system, the university infrastructure system, and the faculty／administrative staff activity／achievements database.

L　It is desirable that the academic affairs system has a function which provides an efficient workflow to a user, from management of entrance examination to admission procedure for successful candidates. In particular, the detailed information for functions, which enable the user to issue student IDs and digitalize handouts／documents for students and which can be operated before students' admission to TUAT is processed, is desired.

M　The data stored in the academic affairs system currently used in TUAT (i.e., SPICA) should be transferred to both systems. After the data transfer, the operation of the newly installed systems should be equivalent to that of the previous systems. The data transfer should be performed carefully after the discussion with TUAT.

N　Both systems should be continuously maintained and can be flexibly extended for various new functions.

O　Both systems must be highly secured from cyber-attack and information leakage. Both systems can be safely accessed from on-campus and off-campus. If there are functions that allow a secured access to both systems without using Virtual Private Network (VPN) while meeting all the requirements in(A), the detailed information about the functions is desired.

(5)　Time limit for the submission of the requested material : 17 : 00　7 May, 2021

(6)　Contact point for the notice: Iwata Noriyasu, Section Chief for Contract and Purchase Section, Financial Affairs Office, Tokyo University of Agriculture and Technology, 3―8―1 Harumi-cho, Fuchu-shi, Tokyo 183―8538 Japan, TEL 042―367―5525

資料提供招請に関する公表

次のとおり物品の導入を予定していますので、当該導入に関して資料等の提供を招請します。

令和３年４月６日

国立大学法人長岡技術科学大学

事務局長　秋山　和男

◎調達機関番号　415　◎所在地番号　15

○第１号

１　調達内容

(1)　品目分類番号　24

(2)　導入計画物品及び数量　集束イオンビーム３次元内部構造遠隔観察システム　一式

(3)　調達方法　購入等

(4)　導入予定時期　令和３年度９月以降

(5)　調達に必要とされる基本的な要求要件　本装置は、集束イオンビームを搭載した高分解能走査型電子顕微鏡に元素分析・結晶方位解析とそれらのマッピングを行える機能を有するとともに遠隔操作できるシステムから構成される。

A　集束イオンビームの要求要件

a　ガリウムイオン源を有し、最高加速電圧が25kV以上であること。