4　説明会の開催　本公表に基づく導入説明会を開催する。

⑴　開催日時　令和３年３月31日15時30分

⑵　開催場所　Cisco社製Web Meetingsを用いて遠隔で実施。参加希望者に本学が指定するWeb Meetings会議室へのアクセス情報を連絡する。

5　その他　この導入計画の詳細は導入説明書による。なお、本公表内容は予定であり、変更することがあり得る。

6　Summary

⑴　Classification of the products to be procured : 14

⑵　Nature and quantity of the products to be rent : Computer Infrastructure System 1 Set

⑶　Type of the procurement : Rent

⑷　Basic requirements of the procurement :

A　The system should consist of a server infrastructure, a group of educational terminals, a server management system, a terminal management system, a printingsystem, etc., and various services such as e-mail, e-Learning (LMS), file sharingmanagement, document sharing management, user registry, user portal, websitehosting, etc., as well as comprehensive licenses. The system must be capable of providing not only university-wide education, but also information engineering education, administrative systems, and library service functions in a unified manner, and be operated as the university's information infrastructure.

B　The server infrastructure must be capable of generally seamless operation and management of scale-out server functions on the university campus, in a datacenter leased by the university, and in a data center directly connected to SINET, as well as uninterrupted maintenance of equipment and firmware.

C　The underlying services shall include at least DNS, NTP, Web server, Proxy, LDAP, RADIUS, Active Direcrory, Shibboleth, CAS, and OpenID, have high availability, and have APIs that enable control and operation management through open mechanisms. An API that enables control and operation management with an openmechanism must be provided. In addition to authentication using user names andpasswords, the authentication linked IdP shall have a two-factor authenticationfunction using digital certificates, magnetic cards, IC cards, etc. It is desirable that the function is based on standards such as FIDO U2F.

D　In the services to be provided, data that is intended to be made public must becapable of stable provision using cloud services, etc., and must be controllable, auditable, and operationally manageable using published mechanisms.

E　In the services to be provided, the data whose disclosure should be limited shouldbe configured as a service infrastructure that can be audited by security devices under the management of the University. This security function may be implemented by using the UTM device (Fortigate 1100E) already installed at the university.

F　The e-mail service supports at least the WebMail, IMAP4, POP3, and SMTPprotocols, can accommodate all KIT subdomains, has transparent virus scanning and SPAM countermeasures, and is capable of handling e-mail exchanges involvinglarge files. It is also capable of sending, receiving, and storing e-mail that containsdigital signatures for the e-mail addresses of all members of the university, and managing the sending and forwarding of e-mail for all users who have been givenKIT personal IDs.

G　There should be at least 200 or more common terminals for educational use, and the installation location should be easily changeable, and the usability should besuch that there is no difference even if the users bring their own devices (BYOD). However, regardless of whether the terminals are permanently installed or not, they should be equipped with a mechanism that enables timely updating of theOS and application environment, can be used as off-line terminals even in an offline environment, and the parts that users directly touch (keyboard, mouse, and outer edge of the monitor) should be made of materials that can be cleaned with alcohol-based sanitizers. In addition, it should be able to be used for speakingtests in the English training program of the university and for mathematical datascience education using Python.

H　The educational training environment can be provided for both Windows10 andLinux, and includes at least Microsoft Office, anti-virus, Cisco Webex, software development environment (Eclipse, Visual Studio Code), Virtual Machine executionenvironment (Oracle VM VirtualBox, VMware Academic Program, etc.), and alicense system that allows access not only from common educational terminals, but also from lecture rooms and home, and can support execution in a virtualized environment. It is also desirable to support Adobe Illustrator, Adobe Photoshop, PTC Creo, and Mathematica.

I　As an e-Learning infrastructure, Moodle LTS with the patches specified by the university should be able to run on the server infrastructure, withstand at least300 users taking quizzes simultaneously, and deliver online materials to 300 users simultaneously. (At least 50 requests per second). In addition, the system should be able to immediately reflect the pass／fail status of online tests set up for usertraining courses in the user sourcebook system as "service usage qualification information," and The system also has an online conference system function that can be used for synchronous online lectures for 100 people, and enables document sharing (PC screen, Web camera, PDF documents), chatting, and two-way video calls. Furthermore, the system should be equipped with a teaching material distribution system that takes copyright protection into consideration.

J　As an electronic data repository infrastructure, it is equipped with a file sharingservice equivalent to Nextcloud and a document sharing service equivalent to Atlassian's Confluence, and has a secure and convenient file sharing service functionwith not only individual members' repositories but also users inside and outsidethe university, The system also has an authenticated content management／shared repository with flexible authorization functions, and can perform full-text search of stored data in Japanese and English, as well as filtering functions according tothe rating of the information.

K　The system should have a user sourcebook system, a group sourcebook system, and a provisioning mechanism that can provide account information to multiple authentication systems based on the sourcebook information. In addition, the license system should take into account the accumulation of accounts such as KITpersonal IDs. In addition, the system should be capable of importing student information from the academic affairs system and faculty information from the humanresources system, and issuing and managing lifetime accounts that uniquely correspond to individuals and Center for