SOKOINE UNIVERSITY OF AGRICULTURE



INFORMATION AND COMMUNICATION TECHNOLOGY GUIDELINES

1st October 2015

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As Approved by SUA Council in its 139th Meeting Held on 1st October 2015

FOREWORD

Sokoine University of Agriculture recognizes that the presence of a capable, effective, and forward-looking Service that will be able to implement the SUA's development policies and deliver services in an efficient and timely manner, is a pre-requisite for fulfilling goals as articulated in the SUA's Mission and Vision. Information and Communication Technology (ICT) development and its wide utilization across the world have made ICT to be used as strategic tool to achieve development goals globally. Increasing capacity of ICT has further been empowered by the growth of a global network of computer networks i.e. the Internet.

By recognizing the impact of ICT in achieving SUA's objectives, the University has deployed several ICT systems for effective and efficient service delivery. Some of these systems can only be accessed internally while others outside the University. The University further understands that ICT systems are vulnerable to attacks and there are threats which need mechanisms to protect organizational ICT resources against threats and attacks. In addition, improper handling (collection, storage, processing and transmission) of organizational data would infringe rules and governina data confidentiality, intearity reaulations and availability. Moreover, the University has an ICT unit to oversee proper utilization of ICT resources in the Institution as well as monitor all ICT activities while ensuring that they are conducted according to the best practices.

Thus, this document provides mechanisms for guiding both, the handling and use of ICT facilities of the University. The Guidelines put forward best practices when using University ICT facilities. These Guidelines are in line with the National ICT Policy 2003, SUA ICT Policy 2014, and other relevant Institutional policies that aim at creating a proper handling and use of ICT facilities that would enhance service delivery while protecting organizational resources.

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Several stakeholders have made the development of this document possible. Acknowledgment is extended to all stakeholders who in one way or another contributed to making sure that the SUA ICT guidelines are in place.

It should be clear that, in a scenario where an ICT facility user fails to comply with these guidelines; Disciplinary measures will be taken against him/her as per Public Service Acts, Regulations, Circulars and other Institutional Directives. It is therefore my expectation that all users will adhere to these guidelines set here forthwith.

> Prof. Gerald C. Monela Vice Chancellor

SOKOINE UNIVERSITY OF AGRICULTURE INFORMATION COMMUNICATION TECHNOLOGY GUIDELINES

PART I

PRELIMINARY PROVISIONS

- Citation 1. These guidelines must be cited as Sokoine University of Agriculture Information Communication Technology guideline, 2015.
- Application 2. These guidelines shall apply to the users of SUA ICT resources.
- Interpretation 3. In this guideline unless the context otherwise requires:-

"Access" in relation to any ICT system, means entry to, instruct, communicate with, store data in, retrieve data from, or otherwise make use of any of the resources of the computer system or network or data storage medium;

"**Bandwidth**" means amount of data a network can transmit in a certain period of time usually expressed in bits per second;

"Computer system" means a device or combination of devices, including network, input and output devices capable of being used in conjunction with external files which contain computer programmes, electronic instructions, input data and output data that perform logic, arithmetic data storage and retrieval communication control and other functions;

"Computer data" means any representation of facts, concepts, information or instructions, in a form suitable for processing in a computer system, including a program suitable to cause a computer system to perform a function;

"Cloud computing" means the delivery of ICT services as a service on computing resources such as applications, software, infrastructure as well as platforms over the Internet without necessarily hosting servers by SUA;

"Data backup regimen" means a system of recording identified data onto portable media.

"Data storage medium" means any device, article or material from which computer data or information is capable of being stored or reproduced, with or without the aid of any other device or material; "Device" means electronic equipment which can include:

- a) a computer program, code, software or application;
- b) component of computer system such as graphic card, memory card, chip or processor;
- c) computer storage component;
- d) input and output devices;

"Document" means any recorded information or material, in electronic format or print, which conveys coherent information for human understanding and use.

"E-resources" means Information resources that user accesses electronically including, but not limited to electronic journals, electronic books and other Webbased documents:

"Free Open Source Software" means computer software that anyone is freely licensed to use, copy, study, and modify the software in any way, and the source code is openly shared so that people can modify or improve the design and its performance;

"E-waste" means non-usable desktop computers, **notebook** or laptop computers, CD-ROM and DVD equipment, data projectors, digital cameras, telephones, mobile phones personal digital assistants and (PDAs), printers, photocopiers, fax machines and multifunction devices (MFDs), keyboards and similar peripheral ICT devices, servers, hubs, switches, bridges, routers, power supplies and batteries, UPS, scanners, electronic entertainment devices and consoles, and other similar items. This definition includes used electronic equipment destined for reuse, resale, salvage, recycling, or disposal;

"hyperlink" means a symbol, word, phrase, sentence or image that contains path to another source that points to and causes to display another document when executed;

"Information and Communication Technologies (ICT)" means a diverse set of tools, systems, applications and services used for production, processing, storage, transmission, presentation and retrieval of information by electronic means;

"intellectual property rights" means the rights accrued or related to copyright, patent, trademark and any other related matters;

"Institutional repository" means database online for collecting. preserving, and disseminating the intellectual output of an institution. The collection includes but not limited to materials such as journal articles particularly preprints, theses and dissertations, research reports, course and other academic notes. documents;

"Internet" means a collection of private and public router-based networks that are interconnected via gateways and exchange points, which all utilize the TCP/IP protocol;

"Internet Protocol Address (or IP Address)" means a unique address that computing devices used to identify itself and communicate with other devices in the Internet Protocol network;

"Local Area Network (LAN)" means computer network that spans a relatively small area such as a single building or group of buildings;

"Management Information Systems" means information systems used as tools to facilitate the management of corporate functions;

"ICT Equipment" means any

electronic device used for Information and **Communication** Technologies including desktop computers, laptops, servers, monitors, printers, audiovisual (AV) equipment, software and network equipment;

"ICT facility" means a place or piece of equipment that uses Information and communication technology including physical devices, internet facilities both wireless and wired;

"Modular object-oriented dynamic learning (Moodle)" means open source learning platform designed to provide educators, administrators and learners with a single robust, secure and integrated system to create personalized learning environments. This also can refer to Modular Object-Oriented dynamic learning environment;

"Parallel Running" means a process of running a new or amended system simultaneously with the old system to confirm that it is functioning properly before complete migration;

"**Publish**" means distributing, transmitting, disseminating, circulating, delivering, exhibiting, exchanging, printing, copying, selling or offering for sale, letting on hire or offering to let on hire, offering in any other way, or making available in any way;

"Physical access" means the ability of a person to gain access to physical facilities (e.g., buildings, computer, server rooms, warehouses);

"Remote site" means a site which is away from the main server which includes but not limited to campuses, colleges, schools and hostels;

"Restricted system" means system which does **not** allow unauthorized users to access;

"Rootkits" means a type of Trojan that keeps itself, other files, registry keys and network connections hidden from detection;

"Software Change Management" means a process of planning, organizing, controlling, executing and monitoring changes that affect the delivery of ICT services;

"System Administrator" means person responsible for running and maintaining networked computers,

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peripherals, and the network itself;

"Spam" means unsolicited messages sent typically to large numbers of users, for the purposes of advertising, phishing, spreading malware;

"Structured Cabling" means a set of cabling and connectivity products that integrates voice, data, video, and various management systems of a building (such as safety alarms, security access, energy systems, networks etc.);

Transmission Control Protocol/Internet Protocol (TCP/IP) is a basic communication language or protocol of the Internet. It can also be used as a communications protocol in a private network (either an intranet or an extranet);

"Trojan" means a program that appears legitimate but performs some illicit activity when run; It may be used to locate password information or make the system more vulnerable to future entry or simply destroy the user's stored software and data. Trojan is similar to a virus, except that it does not replicate itself;

"Trusted Cloud Computing Vendor"

means person or company that has high level of confidentiality, uses server, and client authentication, security domains, cryptograph in data separation, and certificatebased authorization;

"ICT unit" means the University unit dealing with ICT matters in delivering services;

"University" means Sokoine University of Agriculture (SUA);

Uninterruptable power supply (UPS) is an electrical apparatus that provides emergency power to a load when the input power source, typically main power fails;

"Unsolicited messages" means communication that:

- does not have one of the following qualities:-
 - (a) the receiver does not consent to such communication and has evidently shown to the sender,
 - (b) at the beginning of the communication, the communication does not disclose the identity of sender and its purpose; and
 - (c) that communication does not

give an opt-out option to reject further communication.

- (2) the consent requirement is deemed to have been met where:-
 - (a) the contact of the addressee and other personal information were collected by the originator of the message in the course of work or business relations;
 - (b) the originator only sends promotional messages relating to its similar products and services to the addressee;
 - (c) the originator offered the addressee the opportunity to opt-out and the addressee declined to opt-out; and
 - (d) an opportunity to opt-out is provided by the originator to the addressee with every subsequent message.

"**User**" means any person authorized to use University ICT facilities;

"Virus" means a software used to infect a computer after the virus code is written; it is buried within an existing program and once that program is executed, the virus code is activated and attaches copies of itself to other programs in the computer and other computers in the network;

"Wide Area Network (WAN)" means a geographically dispersed telecommunications network, thus computers connected to a wide-area network are often connected through public networks, such as the telephone system. They can also be connected through leased lines or satellites; and

"Wireless Network" means network that does not require cable connections.

Disclaimer 4. The University undertakes to provide and operate its ICT resources with reasonable skill. However, the University accepts no liability for any loss or damage a user may suffer from any failure or malfunction of the University ICT resources or any part thereof.

PART II

GENERAL GUIDELINES

- Purpose of 5. The main purpose of this guideline is provide framework to for Guidelines governance which includes selecting, implementing, and managing Information and Communication Technology (ICT) services by guiding the University on how to manage ICT facilities.
- ICT facility 6. On acquiring hardware and Procurement software, proper procurement procedures shall be followed as stated in the Public Procurement Act and its Regulations.
 - Acquisition of all ICT facilities or resources shall be done upon approval of specifications by the University ICT unit.
 - ICT hardware and software shall be supplied by a supplier with the relevant manufacturers' authorization.
 - All ICT hardware using power shall always be supported by an uninterruptible power supply/surge protectors for protection from power surges.
 - 10. ICT hardware shall have a valid warranty of not less than one year.
 - SUA ICT unit shall comply with national and international standards to ensure that no inferior ICT equipment/ facilities are supplied to

the University.

- 12. All LAN switches connecting University network segments can be both manageable and unmanageable depending on the situation.
- Prior recommendations from the University ICT Unit, all Ethernet switches shall support a minimum transmission and uplink speeds to clients, as well as local server and backbone connectivity.
- Software 14. To ensure effectiveness, high management performance, higher security, University computers and related devices shall be supplied with free and open source (FOS) Operating System (OS).
 - 15. Without prejudice to guideline 14; in case a computer requires a proprietary (commercial) OS, it must be supplied with Genuine and licensed OS which is recommended by experts from the ICT unit.
 - 16. All information systems that support teaching, research, service delivery and records management application software installed in University computers must be approved by University ICT Unit.
 - 17. All computers with OS susceptible to viruses attack must be installed with genuine, licensed and up-to-date anti-virus.
 - 18. All software customization shall

comply with ICT unit requirements and SUA ICT security guidelines.

- Designated officer shall verify that need for a particular customization has been met.
- Hardware 20. case where cabling In system provides telecommunication services management from Floor Distribution to the Telecommunication Outlet(s), copper cabling shall be used. However where necessary fibre optic or any other acceptable cabling standards such as EGA, ISO, ISEC may also be used.
 - 21. In case the cabling system provides data and/or telecommunication services between buildings such that it connects two or more Building Distribution(s); it must be in the form of fibre optic cabling. However for remote sites, a suitable wireless technology may be required.
 - 22. Anyone responsible for the specification of the Equipment Rooms should seek advice from the relevant University ICT Unit.
 - 23. Water/steam pipes shall never be installed directly above or in the same room as telecommunications equipment.
 - 24. When planning the location, size and number of equipment rooms required, anyone responsible for the design and planning of the computer network cabling infrastructure shall

ICT

Equipment

Rooms

keep in mind the 90 meter rule for the Horizontal Cabling Subsystem.

- 25. All ICT equipment rooms shall house only equipment directly related to the Structured Cabling infrastructure, associated electronics and its environmental support systems including suitable earthing.
- 26. Equipment and services not directly related to the support of the Server/Computer and Telecommunications rooms or Structured Wiring System shall not be installed in, pass through, or enter the aforementioned rooms.
- 27. During the structured cabling installation project, the project manager must present a Telecommunications Room layout to the relevant authority.
- Communicati 28. The location of the Communications Cabinets must provide physical and Cabinets on environmental protection for the (Racks) *telecommunications* equipment against temperature, humidity, vibration, extortion, posture to ultraviolet radiation, ingress of dust, fluids or other contaminants, physical damage (accidental or malicious), security, electromagnetic interference and other hazards.
 - 29. Communication Cabinets should allow adequate access and should be provided with illumination and temperature conditions suitable to allow installation and maintenance of

a Structured Cabling System and associated electronics.

- Communications Cabinets shall be located such that subsequent measurements, repair, expansion or extension of the installed cabling can be undertaken in safety.
- During the structured cabling installation project, the Network Installation Project Manager must issue a Cabinet layout detailing subsystem terminations, equipment locations and associated devices.
- 32. Terminals, wires, ports shall be labeled for easy maintenance.

ICT Security Servers and Server Room Security

- Server rooms shall be non-smoking zones, fitted with smoke detectors and have automatic or portable fire extinguisher systems.
- 34. All server rooms shall be protected against unauthorized access. The authorization of access to Server Rooms and Disaster Recovery Site shall be based on the following requirements:
 - (a) Staff/Visitors permitted to enter the Server rooms must be accompanied by designated officer. Visitors shall be logged in the register book.
 - (b) Access to the server room shall be restricted by key, code, or

electronic card. The process for issuing keys, codes, and/or cards must be documented.

- 35. Identification cards shall not be shared or exchanged.
- Access to the ICT systems shall be authorized by the relevant authority, or appropriate delegated officer.
- 37. Access to any particular data file should be based on the user's roles as established by his or her official duties, and should be reflected in the provision of specific authorization codes, passwords or other accessenabling means.
- 38. User shall be issued with Unique User Identities (IDs) that are produced following a standard naming convention. The naming convention shall identify at least two names of the user e.g. firstname.lastname
- Before being granted logical access, user shall complete a "User Access Permission Application Form" that defines access privileges and roles.
- 40. Changes to access roles and privileges should only be made under authorization of the relevant authority.
- 41. Designated Systems administrators shall review and maintain User Access Profiles.
- 42. Privileges shall be allocated to network and/or application software

accounts on an 'as needs' basis.

- 43. For security reasons, user account names shall not indicate users² associated privileges.
- 44. All changes to network configurations shall be recorded in the register, along with authorization for the changes.
- 45. User shall be permitted to use only those network addresses issued to them by the relevant authority.
- 46. Remote user shall connect to servers using a secure communication channel such as Virtual Private Network or Secure Shell (SSH) on dedicated communication lines with end-to-end encryption.
- 47. Results/Logs from the firewall shall be reviewed by system administrator to confirm there have been no unexpected attempts to connect.
- 48. Login to systems using system super user is strictly prohibited unless the system administrator has no other means to change configurations.
- 49. Passwords must be changed frequently at a maximum of one month interval.

Security of Media in Transit

50. Information can be vulnerable to unauthorized access, misuse or corruption during physical transport, for instance when sending media via the postal service or via courier. Thus, it is important to safeguard computer media being transported between sites based on the following principles:

- (a) Reliable and trusted transport or couriers should be used.
- (b) Packaging should be sufficient to protect the contents from any physical damage likely to arise during transit and in accordance with manufacturers' specifications.
- (c) Special controls should be adopted, where necessary, to protect sensitive information from unauthorized disclosure or modification e.g. by use of locked containers, delivery by hand, or use of tamper-evident packaging.

Security of Equipment rooms

- 51. Access to the equipment rooms must be restricted to authorized personnel only, as specified by the University ICT Unit, thus maintaining a degree of security and minimizing the risk of damage which could threaten the integrity of the network.
- 52. All doors that have direct access to equipment rooms shall be fitted with swipe card access or have security

lock.

- 53. All windows within the equipment rooms must be fitted with opaque glass. Iron bars must be fitted to the inside of the windows.
- Internet use 54. SUA shall strike a balance between taking advantage of the Internet and maintaining security and confidentiality based on the following principles:
 - (a) The prudent bandwidth management practices shall be observed to assian hiahest priority to mission critical traffic (critical traffic to maintain the University's Internet presence). This includes traffic to and from student records information e-Learning system, system, University maintained web and email servers. Mission critical traffic also includes traffic to and from Library databases and systems, hosted resources critical to finance and human resource.
 - (b) Peer-to-peer file sharing, Nonacademic traffic, video streaming, large file transfers and system updates shall be given less priority; however a dedicated bandwidth will be allocated for video conferencing.
 - 55. System administrators shall monitor

network traffics and generate appropriate reports for decision making.

- 56. System administrators shall follow all best practices provided by the University ICT unit.
- 57. The University shall ensure that there is control of spam by using e-mail filtering tools in e-mail software to block or screen out spam by defining some simple filtering rules.
- 58. The University shall strive to ensure that network is protected from malware and/or hackers that come with the use of Internet.
- 59. Internet service/connection shall not be used to perform illegal acts and unauthorized activities.
- 60. All access to the Internet shall be routed through firewalls and monitoring software.
- LAN shall not be extended to other remote networks without permission of the ICT unit;
- 62. System administrators shall ensure that unauthorized traffic will not be allowed to enter the University LAN.
- 63. System Administrator shall encrypt data with approved encryption algorithm before transmitting over the network.
- 64. The University shall ensure that firewalls, intrusion prevention and

detection system shall be installed and properly configured to protect LAN.

- 65. The University shall ensure that, all access points of the LAN layout are identified, and checks to verify that safeguards are operational.
- 66. Security controls shall be based on following principles:
 - (a) System administrators shall ensure that all changes in the systems are document and such documentation is physically secured. The documentation shall be inspected by the head of the University ICT Unit from time to time.
 - (b) Wireless network shall be used with sufficient authentication and transmission encryption measures in place, complemented by proper security management processes and practices.
 - (c) System Administrators shall develop a coverage map of the wireless network, including locations of respective access points and Service Set Identifier (SSID) information so as to avoid excessive coverage by the wireless signal.
 - (d) System Administrators shall regularly search for rogue or

unauthorized wireless access points.

- (e) Once a device is no longer connected to the University network, System Administrators shall modify the encryption keys and SSID.
- (f) The System Administrators shall change product default access point configuration settings.
- (g) The System Administrators shall disable all insecure and unused management protocols on access points.
- (h) The System Administrators shall enable and configure security settings to make sure that unauthorized users do not gain access to wireless network.
- (i) The System Administrators shall ensure all wireless connections are connected to the security equipment (e.g. firewall, router).
- (i) The System Administrators shall activate logging features and redirect all log entries to a logging server. The log records should be checked regularly.
- (k) The System Administrators shall keep strict control of the wireless interface cards (e.g. PCMCIA card for laptop) as access credentials such as SSID and/or

encryption key are commonly stored on the card.

- The System Administrators shall give guidelines on protection against computer virus and malicious code to users.
- (m) Appropriate locks on windows and doors should be maintained.
- (n) Doors shall be kept locked when rooms are not in use.
- (o) Secure system for keys and combinations should be maintained.
- (p) In the event of security breach, compromised lock should be changed and alternative physical security strategies should be used when appropriate.
- (q) All legitimate visitors should be logged at the entrance to SUA building and must declare personal ICT equipment.
- (r) All staff must declare personal ICT equipment at the entrance in server and computers rooms
- ICT Change 67. All stakeholders shall be responsible Management to integrate ICTs in their activities to embrace e-governance practices.
 - 68. Change management approach shall be employed to ensure thoughtful planning and implementation of ICT issues with involvement of stakeholders affected by respective

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ICT changes.

69. Whenever necessary, user shall be consulted from time to time to support and facilitate the effective implementation of the ICT policy.

70. The University shall ensure that:

- (a) A comprehensive change management procedure is documented to all stages of the change management process. The procedure shall contain information regarding the process and responsibilities for change identification, the approval process and the emergency change process,
 - (b) A formal review before the change is closed on the system,
 - (c) User requirement analysis is performed prior to the development of /or procurement of the systems or software,
 - (d) Compatibility of a systems and software are formally documented for better management of the change process,
 - (e) System checking is performed prior to the change being marked as complete,
 - (f) Documented evidence of testing

Change management retained for future reference, and

(g) Inventory updated in the event of change.

System 71. In order to ensure convenience, integration and interoperabili ty 71. In order to ensure convenience, efficiency, consistency and accuracy, integrity and availability of data and information, all SUA information systems should be integrated.

- 72. Any new system shall be compatible and interoperable with existing system without compromising organizational security.
- Different existing systems shall be integrated by adhering to ICT security standards.
- 74. The ICT unit shall be responsible to ensure the guidelines for systems integration and interoperability are adhered to.

Upgrades 75. Installation of new software or and upgrade or any hardware should be done by suitably qualified, trained or under supervision of personnel from ICT Unit.

- 76. A suitable contingency plan shall be in place in case of failure of the new software or hardware.
- 77. System Administrators shall properly test new or upgraded software or hardware before using in a live environment based on approved pre-designed test plan.

- 78. Upgraded software versions shall offer at least the current level of security safeguards.
- 79. System Administrators shall decide the specific criteria and cut-off date, which will trigger a reversion.
- 80. System Administrators shall always ensure that an upgraded software version can read and write files in the older format.
- 81. University ICT Unit shall strive to ensure that major upgrades of operating system version on servers are done without interrupting the client services.
- 82. If patches are applied incorrectly or without adequate testing, the system and its associated information can be placed at risk, possibly corrupting data files. Patches applied to resolve software bugs shall only be applied when verified as necessary and with authorization from the ICT Unit based on the following requirements:
 - (a) Patches should be from a reliable source and are to be thoroughly tested the by system administrator before use.
 - (b) System administrators shall verify that the patches are necessary and came from an authorized source, normally the software manufacturer or vendors.
 - (c) System administrators shall

Applying patches/servi ce packs

ensure that updates to the system documentation are received with the patches.

- Parallel 83. Running and Mirroring
 - ICT facility testing shall incorporate a period of parallel running prior to the new or upgraded software being acceptable for use in the live environment.
 - A parallel run phase 84. shall be incorporated in the User Acceptance Test Plan.
 - 85. System Administrators shall ensure that the systems are mirrored.
 - 86. In a scenario where two systems are running parallel and that the old one is intended for phasing out, the maximum time for parallel running may not exceed twelve months.
 - 87. Where results differ significantly between the old and new system, the old system may continue to be used until the new system is up and running or otherwise agreed as acceptable.
 - 88. On occasion, changes of an "emergency" or critical nature may required to quickly address be production issues arising in case of Changes shall emergency. be rectified urgently while still maintaining the proper levels of approval. logging, monitorina. communication and closure of all change related activities.
- E-Waste 89. SUA shall ensure that:

Management

- (a) Only designated collection and disposal points will be used for e-Waste.
- (b) Equipment shall be disposed if it is free from sensitive or confidential information and licensed software applications.
- (c) E-Waste equipment shall be disposed-off or recycled in an environmentally and socially friendly manner in accordance with the National Environmental Act.
- (d) No electronic equipment and e-Waste will be placed in general refuse bins.
- 90. The coordination of activities associated with the appropriate handling and disposal of e-Waste shall be the responsibility of the SUA Procurement Management Unit (PMU) abidance with National in Environmental Management Council (NEMC) and environmental experts within SUA.
- 91. During disposal, records shall be maintained to document the amount of e-Waste disposed-of each year in accordance with reporting requirements demonstrating compliance with environmentally friendly initiatives.

- Precautions 92. Smoke detectors and fire against fire extinguishers should be regularly tested to ensure that they are in good order and all tests have to be documented.
 - 93. Materials which can easily catch fire should be disposed of and those documents which are still in use should be stored in a secure place.
 - 94. Activities such as rewiring, welding or cutting, undertaken as part of structural changes to the premises, should be monitored by ICT staff, so long as there is proof of safety of new wiring required.
 - 95. Clear fire instructions should be available and in the event of fire, these instructions should be followed.
 - 96. Regular fire practices (fire drills) should be conducted.
 - 97. Computer labs should be as much as clean and tidy.
- Business 98. The University shall ensure the Continuity Management 98. The University shall ensure the continuity of its services, especially those involving critical operations, and maintains the availability of information at an acceptable level in the event of significant disruption.
 - 99. In the event of systems encountering data loss, each system should be covered by a data backup regimen. The media must then be stored both on-site and off-site to limit total loss in case of a declared disaster. The media should contain a copy of

specific data as at a specified time. In the event that data is required for recovery, a data restore must be performed from the backup media.

- 100. System administrators shall ensure that data back-ups are performed on scheduled basis. Daily backup must be performed automatically for data that changes on a daily basis. Responsible staff will handle backups of data that is not in the custody of system administrators.
- 101. Backup must be performed on established schedule for data that change at scheduled intervals, or to respond to major system events.
- 102. All media, equipment and backup utilities (backup management software and in-house programs) used to perform backups should be tested prior to live use to determine compatibility with computer systems, storage environment, and backup frequencies.
- 103. In order to ensure ICT service continuity, backup of all critical systems should be in place and maintained by system administrators.
- 104. Disaster Recovery Site (DRS) should be a real-time based backup site in a remote physical location containing ICT equipment configured and ready to run SUA Systems.
- 105. The University shall develop and enforce data backup plan and

procedures for each application/system.

- 106. Backup information, together with accurate and complete records of the backup copies and documented restoration procedures, must be stored in a remote location, at a sufficient distance to avoid being affected by the same disaster that may hit the main site.
- 107. Backup media must regularly be tested, where practicable, to ensure that they can be relied upon for emergency use when necessary.
- 108. Restoration procedures must be regularly checked and tested to ensure that they are effective and that they can be completed within the time allotted in the operational procedures for recovery.
- 109. User Data, Database and System state must be backed-up regularly, normally at least twice per day.
- 110. The contents of the back-up tape/disk must be verified and ensured that the data has been saved. If the backup fails, the process need to be reconfigured and repeated.
- 111. Backup media must be stored both on-site and off-site. On-site storage is located within a physically secure and fire-proof area.
- 112. Off-site storage must be in a secure and monitored location physically

distant from the source location premises. Authorized ICT Unit staff responsible for ICT implementation or regulation in SUA should have accesses to this location at any time.

- 113. Backup and recovery documentation shall be reviewed and updated regularly to account for new technology, business changes, and migration of application to alternative platforms. Documentation of the restoration process must include procedures for the recovery from single- system or application failures as well as for a total data center disaster scenario.
- up documentation 114. Back should include items necessary to perform essential tasks during a recovery period such as; Identification of all critical data, programs, documentation and support items, clear documentation on how to do the backup and restore, specified period of maximum acceptable (MAO) for all outaae systems, backup media storage locations, required backup frequency (e.g. daily, weekly, etc), required backup cycles, backup retention period (as business legislative per and requirements), testing regimen and process and recovery schedule and plan; and location of relevant software and licenses.
- 115. The University ICT Unit shall be responsible for configuring a fully

backup system (including tested media, equipment, and utilities) and data restoration capabilities.

- 116. The University ICT Unit shall be responsible for Initiating, managing, and monitoring all data back-ups.
- 117. The University ICT Unit shall be responsible for ensuring all back-up investiaated failures are and examined to ensure process integrity.
- 118. All electronic data including user's emails should be archived and backed up. The designated system administrator from University ICT Unit must ensure archiving has been done properly.
- 119. No archived data should he destroyed without a written approval from the ICT Unit.
- 120. The University shall mobilize and allocate adeauate financial resources for ICT development.
 - 121. To ensure sustainability and auditability of information systems, Free and Open Source Software shall be preferred, promoted and used in the University.
 - 122. Whenever possible, the University will use cloud computing solutions for acauisition of ICT services.
 - 123. The Server rooms and computer adequately rooms shall be air conditioned to provide a conducive environment for the ICT equipment.

ICT sustainability issues

- 124. The air conditioners should be serviced regularly to ensure continuous performance.
- 125. Air conditioning failure should be reported for immediate remedial measures.
- 126. University shall strive at maintaining more than one ISP to increase availability and reliability of Internet services.
- Power127. Non SUA employees shall not useOutage andSUA ICT resources without priorMeasurementrelevant written permission from
authority.
 - 128. Moving ICT equipment owned/leased by SUA outside the premises should follow laid down procedures.
- SUA external129. All external service providers shallICT servicebe verified by the University ICT UnitProvidersas being legitimate before being
allowed to access any of the
University ICT resources.
 - 130. There shall be a register which will be showing when, why and by whom access was requested and if it was granted or not.
 - 131. External service providers shall complete Confidentiality Agreement Form (Appendix 1).
 - 132. In case external service providers are allowed to access systems, they shall be assigned new login details (username and passwords) and

relevant access privileges and not the existing ones.

- 133. Any created user log on details to allow access to systems should be deactivated as soon as access is no longer required.
- 134. The contractor shall take all measures to protect systems from data loss during maintenance operations.
- 135. All maintenance of ICT equipment and software shall be done at SUA and under the supervision of ICT Unit personnel.
- 136. In case the damaged ICT equipment needs to be taken to the contractor, the following should be examined: The storage media within the systems shall be removed before the equipment is taken to the contractor. If the storage media is needed, then the sensitivity of data within the media should be examined and for high sensitive data, the ICT staff shall accompany the contractor.
- 137. The maintenance of ICT equipment and software shall be allowed where necessary and the login shall be governed by guidelines under "Remote access".
- 138. The University ICT Unit shall ensure that the equipment does not contain sensitive data when hardware is taken by the service provider for servicing or repairing.

- 139. Service contracts with all service providers including third party vendors should include confidentiality clause and right to have information system audit conducted (internal or external).
- 140. Prior to entering into an ICT outsourcing arrangement, care should be taken to ensure that process will not compromise the organization objectives, policies and standards. Thus, outsourcing process should base on the following requirements:
 - (a) Outsourcing activities should consider risks and security concerns.
 - (b) SUA should develop a contingency plan for critical outsourced technology services to protect them from unavailability of services due to unexpected problems of the technology service provider. This should include termination plan and identification of additional or technology alternate service providers for such support and services.
 - (c) Outsourced services should be regularly reviewed and analyzed for inappropriate or unusual usage, during the life of the contract.
 - (d) Any problems discovered during the implementation of the outsourced ICT Services, solutions should be documented and used

to improve the controls.

- (e) Protection of personal information and organizational data by ensuring appropriate and effective confidentiality agreements are in place.
- (f) Compliance with information, security and privacy policies, laws and regulations issues.
- 141. University use of cloud computing services must be formally authorized based on the followings:
- computing(a) Cloud Computing services must
be approved in writing after
certifying that security, privacy,
and other Information technology
management requirements have
been adequately addressed
prior to approving the services.
 - (b) Encryption mechanisms must be used to ensure the authentication, integrity and confidentiality of involved data and communications.
 - (c) Examine if cloud computing vendor is "Trusted Cloud Computing Vendor".

PART III

UNIVERSITY WEBSITE GUIDELINES

SUA Website 142. No information that can be damaging to the University's interest or image shall be displayed on the

Need of approval of cloud computing services website of the University including its colleges, faculties, schools, departments or any form of a unit.

- 143. The website shall contain information regarding but not limited to academic matter, research, extension and advisory services, alumni matters, gender issues, curricula issues as well as staff and students affairs.
- SUA Organs 144. The University website shall contain descriptions of various oraans and including functions, powers, members Management well as their qualifications. as of the Organs to be displayed on the website website will include the University Council, Senate, Colleges, Faculties, Institutes, Centres, Departments and management teams at all levels.
 - 145. Issues approved by the Council for public consumption that in any way shall not tarnish the image of the University, shall be uploaded on the website.
- Advertisemen 146. The website being the tool for communication and advertisement ts on the shall include advertisements for website scholarships, conferences, call for papers, job opportunities, news about decision made by SUA Council and SENATE on various issues, approved research projects under different programmes, Research other and news. news advertisements.

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Staff Information on the website	147.	It is important to include the staff information including their curriculum vitae (CV) in the website so that the visitors can know staff strength including academic, administrative and /or technical staff and their qualifications.
	148.	Staff information shall include:
		 (a) The number of academic staff and their CVs emphasizing on their list of publications and web links, (b) The number of administrative staff and their CVs, (c) The number of technical staff and their CVs, (d) Other positions shall also be uploaded as may be required, (e) The list and number of professors, (f) The list and number of associate professors, (g) The list and number of PhD holders, (h) The list and number of masters holders, and (i) The list and number of bachelor holders.
Student Information on the website	149.	The website should include information for expected applicants at SUA. This will help prospective students and stakeholders to know the academic programmes offered by SUA and their entry qualifications and other useful information. The information for prospective students shall include the academic programmes offered by SUA and

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their entry qualifications, information about call for Degree and Non degree programmes- Training Application.

- 150. The number of students enrolled at SUA shall appear on the SUA website. This will help our customers and stakeholders to find out how many students are admitted nationally and internationally.
- 151. Undergraduate information shall be uploaded on Semester basis and updated regularly. The information shall include:
 - (a) the number of undergraduate students enrolled at SUA,
 - (b) Percentage of applicants applied for undergraduate studies, female student enrolled both internationally and locally,
 - (c) applicants admitted into undergraduate studies (both nationally and internationally), students graduated at Faculty/Institute/Centre level and University level,
 - (d) undergraduate students employed after graduation and students awarded scholarships (national or international) after graduations,
 - (e) Ratio of undergraduate students to academic staff shall be displayed on the website, and
 - (f) And other useful information.
- 152. Postgraduate information will be

entered at least in every six months and updated regularly. This will include:

- (a) The number of postgraduate students enrolled at SUA.
- (b) Percentage of applicants applied for postgraduate studies,
- (c) Percentage of applicants admitted into postgraduate studies (both nationally and internationally),
- (d) Ratio of PhD students araduated to academic staff.
- (e) Ratio of postgraduate students to academic staff, and
- postgraduate (f) Percentage of fellowships/arants from prestigious bodies awarded to postgraduate via research mode.
- Teaching and 153. Teaching and learning information will be displayed on the University website. The information can include the number of students admitted at SUA each year including educational or academic programmes in SUA website. The number can be classified by gender and nationality.
 - 154. Academic be programmes will uploaded into the website including:
 - (a) The list and number of academic programmes offered at SUA shall appear in the website.
 - (b) Honorary degree information indicating the names of the recipients, the year awarded

learning issues on th website

and reason of award is necessary to appear in the website so that they can be accessed by people from different places.

- 155. The information about student-staff ratio as a reasonable indicator of the workload of the academic staff shall appear in the website. In addition, the trend of the studentstaff ratios for some years can help to determine whether the University is improving or not. Ratios shall be in terms of:
 - (a) postgraduate students to academic staff,
 - (b) undergraduate students to academic staff,
 - (c) all students to academic members of staff.
- 156. The achievements for students and staff are indicators of improvement of a university providing good services. The following therefore will be displayed on the website (but not limited to):
 - (a) The list and number of recognized awards,
 - (b) Technologies developed by SUA,
 - (c) The number of graduates employed after graduation,
 - (d) Staff of an institution winning Nobel Prizes and Fields Medals,
 - (e) Alumni of an institution winning Nobel Prizes and Fields Medals,
 - (f) List and number of patents

attained,

- (g) List and number of products commercialized, and
- (h) List and number of technology licensed.
- 157. Since research outputs are good indicator of the level of research work at any institution, they will therefore be displayed on the website so that they can be accessed by people from different places. Specifically this information will include:
 - (a) Percentage of Academic Staff with PhD or Equivalent and their research experience,
 - (b) Number, list and description of recognition or awards or stewardship conferred by national and international learned and professional bodies,
 - (c) Percent of funds spent on research, and
 - (d) Income generated from services/consultancy.
 - 158. Information on research projects will include:
 - (a) List and number of research projects completed,
 - (b) List and number of research projects in progress,
 - (c) Research funding level at SUA. This shall include funds received through International and National Collaborative Research Grants, and

Research matters on the website

- (d) Research grants for academic staff including public, private grants. Consideration on contracted research whether national or International contract.
- 159. All publications with their web links shall be published on SUA website including:
 - (a) List and number of institutional journals at SUA annually and cumulatively,
 - (b) List and number of journal papers published by staff at SUA annually including their weblinks,
 - (c) List and number of conference papers published by staff at SUA annually including their weblinks,
 - (d) List and number of research reports published by staff at SUA annually including their weblinks,
 - (e) List and number of books published at the SUA by its staff, and
 - (f) Sponsored symposia/Seminars/ Workshops and conferences organized nationally and internationally including the web links of their proceedings.
- 160. All information related to consultancy shall be displayed on the website.
- List and names of outreach activities made should be displayed on the website.

University Facilities and services on the website 162. The information about equipment that are fully operational and calibrated or physical facilities and supporting facilities available at the University shall be published on the University website.

- (a) Library facilities:
 - i) Number of books and journals present in the Library including e-journals
 - ii) Amount spent on library as percentage of the total budget
 - iii) Number of visits to the Library and trends
 - iv) Library loan and inter-library loan services
 - v) Electronic resources services
 - vi) Information search services
 - vii) Any other services available.
- (b) ICT services:
 - Number of personal computers available for academic staff
 - ii) The ratio of personal computers to academic staff
 - iii) Number of academic staff with computers connected to the Internet
 - iv) Any other ICT service available.
- (c) Laboratory information shall include:
 - Description and information about Laboratories of Colleges, Faculties, Schools, Institutes, Centres,

Directorates, SUA Farm, and Departments should be uploaded on the website including: Services offered; Laboratory facilities; and Name and number of laboratories for practical.

- 163. Health Information shall be displayed on the website such facilities will include but not limited to:
 - (a) Description and information about Health
 - (b) Services offered
 - (c) Health facilities
 - (d) Name and number of Health centers available.
- 164. Television and Radio information shall be displayed on the website such facilities will include but not limited to:
 - (e) Services offered
 - (f) Distance covered
 - (g) Performance
 - (h) How they conduct the Outreach.
- 165. Sports and Clubs information shall be displayed on the website such facilities will include but not limited to:
 - (a) Number of teams participating in Inter-varsity games
 - (b) Position of the University in the Inter-varsity sports.
- Alumni and / 166. Information of Alumni and/or famous or Famous people who had affiliation with SUA shall be displayed on the website

People Who had Affiliation with SUA		including list of their names and their qualifications, Posts held all over the world, and the year of graduation.
Associations and Trade Unions	167.	Information about trade unions and associations available at SUA such as SUASA, SUASO, RAAWU and THTU which are meant to help SUA community shall be displayed on the website. Information that will be uploaded shall include the associations'/unions' role, services and ways to join.
Links to SUA Partners, Allied Ministries and Other Institutions	168.	There shall be links to developmental partners and collaborators, allied ministries such as Ministry of Agriculture, and any institution that has direct relationship of any kind.
Formatting Website Contents	169.	The web format and content must be consistent with the purpose of Sokoine University of Agriculture website. Furthermore, the website contents must rely on Acceptable Use Policies, ICT Policy and Guidelines.
	170.	The following are guidelines on further formatting the contents:
		(a) Complex sentence structures shall be avoided and it will include just one idea or concept per sentence

(b) Use active ahead of passive words. For example 'We plant crops to protect our environment' is shorter and easier to comprehend than, 'The crops are planted by us to protect our environment'

- (c) The language shall be suitable to intended audiences
- (d) Make a site with a clear hierarchy and text links. Every page shall be reachable from at least one static text link
- (e) The content shall use text instead of images to display important names, content, or links since most of web crawlers do not recognize text contained in images
- (f) Bold important words to help users locate information quickly and easily
- (g) It is highly recommended that stakeholders adopt the use of shorter words where possible. For example use 'begin' rather than 'commence', 'used to' rather than 'accustomed to'
- (h) It is highly recommended to:
 - i) Avoid slang or jargon
 - ii) Limit each paragraph to one idea
- (i) The first line of each paragraph should contain the conclusion for that paragraph
- (i) The opening paragraph on every page should always contain the conclusion of that page
- (k) Use descriptive sub-headings
- (I) Bold the important words
- (m) Use descriptive link text
- (n) Use lists

(o) Use left-aligned tex	xt
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- (p) Observe spelling and grammar
- (q) Check page texts for accuracy before posting
- (r) Uploaded images in standard that shall load correctly within a short time.
- (s) Large images shall not be required
- (t) The office responsible for a page shall be displayed with contact information in the "Contact Us" box of the website home page.
- (u) Indicate the date that every page was last updated
- (v) All SUA web pages shall be constructed using the standard SUA web templates or content management systems using style sheets, and supporting graphics shall be compatible with those standards.
- University-171. There shall be a University-wide website committee (UWC) which shall regularly report to the Senate on website matters.
 - 172. UWC shall be chaired by Deputy Vice Chancellor responsible for academic matters.
 - 173. The UWC shall be constituted by:
 - (a) The Head and Assistant Head of the University ICT unit.
 - (b) All website chairpersons of website committees content (WCC) in University units (academic and administrative).

wide Website

committee

- (c) Webmaster who should be an online communication specialist from publicity and marketing department will be the secretariat of UWC.
- 174. The duties and responsibilities of UWC include:
 - (a) To ensure that SUA Website is in good shape in terms of general appearance, user-friendly and regularly updated content.
 - (b) To develop and update guidelines and/or formats for the information required to appear on various units of the University.
 - (c) To ensure that information on all Web pages on SUA Website is updated regularly and accordingly.
 - (d) To monitor, evaluate and instruct website issues accordingly.
 - (e) University-wide website Committee (UWC) shall approve the ranking of websites of University units.
- Website Content

Committees

- 175. There shall be website content committees (WCC) in all academic and administrative departments at all levels in the University.
- in University 176.

units

- 176. WCC shall be composed of at least three members appointed by heads of the respective units.
 - 177. WCC shall be chaired by the Head of the respective unit or his/her appointee.

- 178. WCC shall have the following duties and responsibilities:
 - (a) soliciting, collecting, reviewing, endorsing and uploading Web contents for units/sections under their jurisdiction
 - (b) ensuring that updating of Web page contents is done at least monthly
 - (c) Liaising with the Webmaster on various matters related to website
 - (d) Generating quarterly and annual reports and present their deliberations to UWC. Reports shall show the previous and current status.

All units to have a permanent item of agenda

- 179. All University units shall make the website matters a permanent item of agenda in their meetings. This can go hand in hand with administrative incentives for website content committees.
- Ranking of 180. Ranking of websites of University units shall be done at least once per units quarter. Ranking announcements will websites be posted to SUA website and other places. Unit websites ranking at the top will be given priority to appear on the front page. In doing this it is expected to assist in (a) revealing the best University units in producing content (b) raising awareness that contents are produced by staff and departments. Furthermore, the units that will be ranking last for

consecutive of two years will be given warning letters.

- 181. The ranking process shall follow the world-wide used criteria includina: (i) size of the website which refers to number of pages; (ii) visibility which is the number of external links received (back links) by the number of referring domains of that back links; (iii) number and quality of rich the website: files in and (iv) number/ratio of publications available on website including those in the institutional repositories and Google Scholar. Details of these criteria shall be revised by UWC from time to time.
- 182. There shall be prizes in monetary terms and trophy of best websites of units based on four scores obtained in a year. The value of the prizes shall be reviewed from time to time and approved by relevant University organs.
- Information183. University staff or any user of ICTfor Learningresources shall not upload copies ofAnd Teachingcopyrighted materials.
- Technologies 184. Student Personal identifiable information must be kept confidential. Confidential information includes: student ID and other identification numbers, biographical information, such as home address and telephone number, personal email address, educational history including classes taken or enrolled in,

assessments or opinions about the student including marks and grades, bursaries, or awards, photographs, health information.

- 185. SUA shall strive to ensure student information are kept in secure facilities and equipment, locked rooms and password protected computer systems accessible only to staff whose work requires them to have access.
- 186. Any security breach of student information (such as unauthorized access or disclosure, the loss or theft of files, laptops, or flash drives containing student information, or misdirected e-mail, etc.) must be immediately reported to the appropriate University relevant authorities.
- 187. Access to student information shall only be limited to staff who need the information to do their jobs.
- 188. Students do not have the right to access the personal information of individuals other than themselves. Returning assignments or exams to students or posting grades must be done in a way which does not reveal personal information to other students.
- 189. Electronic posting of student personal information (including photographs) on publicly available websites (including social media sites e.g. Facebook) or websites available to

faculty, staff, and students requires prior notice to the students who must consent to the use of their personal information in this way.

- 190. SUA shall keep students personal information for a minimum of three years after graduation. Beyond that student information must be kept only as long as necessary to complete the contractual obligations between the University and the student (for example to provide information on the academic achievements of the student to employers, educational licensing/regulatory institutions, the student bodies, and to him/herself, and to provide the student with appropriate support and other services).
- BREACH OF GUIDELINE 191. Any person who contravenes these guidelines commits offense(s) and shall be liable to punishments in accordance with SUA charter, or Staff Regulations, or staff by laws and/or national and international laws.

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- Michigan State University, Faculty and Staff Guide to Computing and Technology, 2010/11.

Appendices

Appendix 1

Sokoine University of Agriculture

Network Access confidentiality Form

1. User Details

Access required to Network/System/Application

New	User	[]	Existing	User []	Deletion	of	User	[]	

Full Name: ______ PF No.: _____

Job Title: _____ Department/School/Campus:

Cell Phone Number: _____ Email Address: _____

Access required to function(s): _____

Authority Level where applicable: _____

I acknowledge that:

- i) My Password will at all times remain confidential to me,
- ii) I will take all necessary precautions to ensure that no an authorized persons can gain access to my password, and
- iii) Failure to adhere to the above mentioned will be viewed as a serious breach of trust and will result severe disciplinary action.

Signature:	Date:	

2. Authorizing Officer

Full Name:	_Department:
Work telephone number: _	Job Title:

· _____

Cell Phone Number: _____ Email Address: _____

I confirm that the access required is in the accordance with the user's job description.

Signature:	Date:	·
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Appendix 2

SUA ICT Facility Borrowing Application Form

ICT Facilities are available for University staff to borrow for SUA work related purposes.

Please note, damage, or loss of the item will result in the corresponding charge being assessed to the individual or department or faculty/Centre making the booking.

The ICT facility may be borrowed for the following reasons:

• On Campus Meetings • SUA Community Events (e.g. Public Lectures, Open Day) etc.

Authorization must be obtained from your Dean/Faculty or Department. Costs associated with any damage or loss of the ICT facility will be billed to the Faculty/Centre/Department/individual staff borrowing the facility.

SECTION ONE (TO BE COMPLETED BY THE APPLICANT)

Full Name: Position:
Faculty/Dept.:
Facility requested to be borrowed:
Dates Required: From:/To:/
Reason for Borrowing:
Location Where the ICT facility will be used:

Mobile Number: Email:

Signature:/20.......

SECTION TWO (TO BE COMPLETED BY THE AUTHORISING OFFICER)

Authorization (To be completed by Dean of Faculty / Head of Department)

The above staff member is authorized to borrow the nominated ICT facility for the period specified. The Centre/Faculty/Department/individual staff will meet the associated costs if the item is damaged or lost.

Full Name: Position:
Faculty/Dept.:
Signature: Date:
Director ICT Unit Comments Comments:
Signature: Date:

Appendix 3

Sokoine University of Agriculture

Change Request Form

Change	Request	#:		De	epartment/Faculty
CHANG	F REQUEST	INITIA	— TION : Or	iginato	r:
Phone#	t:	Dat	te Submitt	ted:	_//
System	/Product/Se	ervice I	Name:	Versic	on Number:
CONFIC	GURATION	ITEM:			
Softwa	re: Firm	ware:	Hard	lware:	
Docume	entation:		Other:		
CHANG	GE TYPE:				
New R	equirement	:	Requi	rement	Change:
Design	Change:	C	Other:		
REASO	N:				
Legal:	Mar	ket:	Perfo	ormance	e:
Custom	er Request:		_ Defect:		_ Other:
PRIORI	TY:				
Emerge	ency:			Urgen	nt:
Routine	•	D	ate Requ	ired:	//
					and/or technical
	ation. Use at		nt if neces	sary.)	
	nents:Yes /				
	CAL EVALU		•		
cnange: etc.)	s, impact on	ofner e	entities, in	ipact or	n performance
	ed By:		Date	Receive	ed://
Assigne	ed To:		Date	Assign	ed://
					d

APPROVALS:	Change Not Approved:
Hold (Future Enhancem 1. Approved By::	nent):
1. Approved By::	

Appendix 4

Sokoine University of Agriculture

SERVICE REQUEST FORM

CLIENT II Full Name	NFORMATION	
Faculty/S	chool/College/Centre:	
Departm	ent:	
Ext:	Mob No.:	E-mail:
	REQUIRED escribe the service you a	re requesting:
Location/	building where service i	s required:
Signature		//20 Date
	ICES DEPARTMENT by: Signature:	Date://20
Task assi	gned to:	
Name:		Date://20
Head,	Signature: ent of ICT services	Date://20
Comment	s after service/work:	
Name:	Signature:	.Date: / /20

INQUIRIES

Office of the Director Centre for Information and Communication Technology P.O. Box 3218, Chuo Kikuu, Morogoro TANZANIA Tel: + 255 023 2604838 Fax: + 255 023 2604838 Email: <u>dircc@suanet.ac.tz</u>

> For more information visit: <u>www.suanet.ac.tz</u>

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