

## KENYA EDUCATION NETWORK (KENET)

### Annual Core Data 2022 Questionnaire – Universities /University Colleges

1. a) Date: \_\_\_\_\_ b) Name of Head of Institution \_\_\_\_\_
2. a) E-mail Address \_\_\_\_\_ b) Personal Mobile Number: \_\_\_\_\_
3. Name of Institution: \_\_\_\_\_ Location \_\_\_\_\_

4. Institution Address

Telephone	
E-mail	
Location of Headquarters (HQ)	
Website address	

5. Total number of campuses/branches \_\_\_\_\_
6. Start Month for Institution Academic Year e.g., September 1, and/or Financial Year \_\_\_\_\_ e.g., July 1

### **Total Number of Students**

7. Total Number of Students in the entire institution (sampling date = October 1 of every year)

Category	AY 2020/2021 (Oct 2020)		AY 2021/2022 (Oct 2021)		AY 2022/2023 (Oct 2022)	
	Male	Female	Male	Female	Male	Female
Undergraduate						
Masters						
Doctoral						
Non- Degree						
Total						

8. Total number of students (headcount) - including privately sponsored students in the institution, (AY 2022/2023) \_\_\_\_\_

### **Employee data**

9. Total Number of Staff (2022)

Category	Male	Female	Total
Total Full-time Teaching staff or faculty			
Full-time teaching staff with PhD degree			
Full-time teaching staff with rank of Professor			
Total Part-time teaching staff			
Total Full-time researchers (who are not faculty members)			
Total Administration support Staff			
Others e.g Casuals, interns			

10. a) What is the title of the Head of ICT services in your institution? (e.g., CIO, ICT director, ICT manager)

b) Total number of ICT staff

ICT Staff	Male	Female	Total
Network /System Admin Staff			
Application developers			
Webmasters			
Instructional designers			
End-user Support (include call center if any)			
Others			

11. How many years of experience does your senior system/network administrator have?

None <input type="checkbox"/>	<1 year <input type="checkbox"/>	1-2 years <input type="checkbox"/>	3-4 years <input type="checkbox"/>	4-5 years <input type="checkbox"/>	5-7 years <input type="checkbox"/>	>7 years <input type="checkbox"/>
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### Capacity Development for ICT Staff

12. What training opportunities are available to your junior ICT workforce?

None <input type="checkbox"/>	Local ICT colleges <input type="checkbox"/>	In-house programs <input type="checkbox"/>	External consultants <input type="checkbox"/>	Local vendor training <input type="checkbox"/>
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13. What training opportunities are available to your senior ICT professionals?

None <input type="checkbox"/>	Local colleges /universities <input type="checkbox"/>	Training abroad <input type="checkbox"/>	External consultants <input type="checkbox"/>
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14. a) . How many ICT professionals received systems and network administration training in the FY 2021/2022?

\_\_\_\_\_

b) Do you have a budget for training ICT staff?

Yes <input type="checkbox"/> 1	No <input type="checkbox"/> 2
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c) If yes, what is the budget? Ksh. \_\_\_\_\_

15. How often on average do the ICT staff upgrade their technical skills?

Never <input type="checkbox"/>	Every Year <input type="checkbox"/>	Every 2 years <input type="checkbox"/>	Every 3 years <input type="checkbox"/>	Every 4-5 years <input type="checkbox"/>	>5 years <input type="checkbox"/>
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16. Which areas of training for ICT department are the most critical?

Area of Training	Please tick <input type="checkbox"/>
Systems Administration	1 <input type="checkbox"/>
Network Administration	2 <input type="checkbox"/>
Application development	3 <input type="checkbox"/>
Big Data	4 <input type="checkbox"/>
Cyber security	5 <input type="checkbox"/>
Wireless networks	6 <input type="checkbox"/>
Cloud Computing	7 <input type="checkbox"/>
Others, please specify	

17. a) How many trainings have the network and systems administrators attended in the past year

\_\_\_\_\_

b) Has the network and systems administrators attended any of the KENET trainings?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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c) If yes, please specify the training(s) they have attended \_\_\_\_\_

18. Which trainings would you like the ICT team to undertake at KENET?

Training	Please tick <input type="checkbox"/>
Cyber Security	1 <input type="checkbox"/>
Systems Administration (Unix/Linux)	2 <input type="checkbox"/>
Network monitoring and management	3 <input type="checkbox"/>
Scalable Campus network design	4 <input type="checkbox"/>
Wireless networks	5 <input type="checkbox"/>
Others, please specify	

## Capacity Development for Staff

19. a) Does the institution use online Webinars for workshops and staff capacity building?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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b) If yes, what Webinar platform does the institution use (e.g., Big Blue Button or Zoom)?

\_\_\_\_\_

c). Is there free Wi-Fi in your institution?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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d). Are you aware that KENET has FREE online courses in Cyber Security Awareness Course for all staff and students?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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e). If yes, how many of your staff have taken the courses in the past one month

\_\_\_\_\_

20. What ICT capacity development courses were offered to staff in the FY 2021/2022?

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## eLearning Services or Academic ICT Services

21. Has Your institution embraced online/hybrid learning?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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22. Does your institution have an eLearning policy?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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23. What learning management system (LMS) does your institution use for continuous staff development (Please tick )?

- 1  Moodle
- 2  Blackboard
- 3  Other . (specify) \_\_\_\_\_
- 4  None

24. What library system was deployed in your institution e.g Koha \_\_\_\_\_

25. a). Have you setup a digital repository?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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d). If yes, which application is it running on ? eg DSPACE.....

c). Is your institution subscribed to digital e-books?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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b) Where is the digital repository hosted?

- 1  KENET
- 2  On Campus
- 3  Cloud provider in Kenya.
- 4  Cloud Provider outside Kenya
- 5  Others please specify \_\_\_\_\_

26. Which library security system is used in your library?

- 1  Electro-magnetic systems
- 2  Radio frequency (RF) systems
- 3  Concealed EAS systems.
- 4  Microwave systems.
- 5  Acousto-magnetic systems
- Others, please specify \_\_\_\_\_

27. Is access to Facebook / YouTube allowed during working hours?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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28. What is the percentage of staff who need Internet access for their daily work or research?

75%-100% <input type="checkbox"/>	50%-75% <input type="checkbox"/>	25%-50% <input type="checkbox"/>	5%-25% <input type="checkbox"/>	<5% <input type="checkbox"/>
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29. a) Do your researchers use advanced research computing (e.g., HPC or Grid Infrastructures, research data storage etc.) and scientific applications or appliances available through Institutional ICT directorates or through KENET research ICT services?

Yes <input type="checkbox"/>	No <input type="checkbox"/>	Do not know <input type="checkbox"/>
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b) If yes, please select the advanced research computing services you use from the list below

Research Computing Services	Please tick <input type="checkbox"/>
i. KENET Virtual LAB (Research Computing)	1 <input type="checkbox"/>
ii. HPC access at the Centre for High Performance Computing in South Africa	2 <input type="checkbox"/>
iii. Research data storage	3 <input type="checkbox"/>
iv. Software (R, MATLAB, Scilab, GNU Octave, Jupyter Notebook)	4 <input type="checkbox"/>

## Institutional Expenditure

30. Expenditure (extracted from audited accounts and/or management accounts; provide copy of audited accounts for each FY)

Expenditure	FY 2020/2021	FY 2021/2022
a. Total Institutional Expenditure		
b. Total Recurrent Expenditure		
c. Total Capital Expenditure		
d. Annual ICT recurrent Expenditure		
e. Annual ICT capital expenditure		
f. Annual Internet Expenditure		
g. Annual Student ICT Lab Fees		
h. Annual Telephony Expenditure		
i. Total Annual ICT Staff salaries		

31. Budget for Digital Infrastructure and Skills Investments

	FY 2021/2022	FY 2022/2023	Projection FY 2023/2024
a). Institutional ICT Infrastructure			
b). Digital Skills Development for faculty and staff (Faculty Development for Teaching with technology, Instructional Design, Curriculum Reforms)			
c). Digital Skills Development for Students (e.g., Analytics, Application Development, Digital Designs, Digital Marketing)			
d). Remote Teaching Classroom Infrastructure (white boards, virtual classroom software for live interactive online classes)			

32. Gross Salary range for ICT staff with 3 years of experience and average for department

Salary Ranges	Lowest (KSh)	Highest (KSh)	Average (KSh)
System Administrators			
Network Administrators			
Application Developer			
Webmasters			
Instructional designers			
ICT Director			

33. a) Does your institution charge students Computer/ICT lab fees?

Yes  No

b) If Yes, do you charge per semester or per academic year?

Semester  Academic year

c) How much do you charge for Computer/ICT lab fees per student per academic year in KES?

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## Campus ICT Infrastructure

34. Do you have a backup generator for all networked ICT equipment at your campus?  
 Yes  1 No  2
35. . If yes, what is the capacity (in KVA) of the generator at your location? \_\_\_\_\_
36. Do you have solar power (or other renewable energy) at your campus?  
 Yes  1 No  2
37. If yes, what is the capacity (in kW) of the renewable energy source at your location? \_\_\_\_\_
38. Do you have UPS equipment (distributed or centralized) for all your networked institutional ICT equipment including office computers?  
 Yes  1 No  2
39. Do you have air-conditioning equipment for your server room?  
 Yes  1 No  2
40. What was the size of your Campus wireless LAN in terms of total number of wireless network access points in October 2022? \_\_\_\_\_
41. Do you have a VoIP gateway on your PBX (SIP/E1)?  
 Yes  1 No  2
42. Is your campus network segmented using VLANs for the different areas of the campus or is it one flat network?  
 Yes  1 No  2
43. Do you have firewalls for all your campuses?  
 Yes  1 No  2
44. Do you plan to upgrade, refresh, or renew your campus ICT infrastructure in the next 12 months?  
 Yes  1 No  2
45. If yes, how are you planning to finance the upgrade/refresh/renewal?  
 1  CAPEX (as ICT CAPEX)  
 2  OPEX (as ICT OPEX)  
 Others, please specify \_\_\_\_\_

## Information Systems (ERP and Learning Management Systems (LMS))

46. . Has your institution implemented an ERP/ Integrated business system or individual business applications?  
 1  ERP/Integrated business system  
 2  Individual business applications  
 3  None  
 Others, please specify \_\_\_\_\_
47. If your institution implemented an ERP/Integrated business system,  
 a) What is the product name of the ERP/Integrated business system? \_\_\_\_\_

b) Which year was the ERP//Integrated business system acquired? \_\_\_\_\_

48. Is the Implementation of an ERP/Integrated business system complete?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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Other, specify \_\_\_\_\_

49. To what extent is ERP/Information system implementation completed?

81%-100% <input type="checkbox"/>	61%-80% <input type="checkbox"/>	41%-60% <input type="checkbox"/>	>40% <input type="checkbox"/>
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50. Which ERP modules have been completed and are fully operational?

- 1  Finance Management Module
- 2  Student Admission, Registration & Student Management
- 3  Academics and Exam module
- 4  Procurement Module
- 5  Human Resources Management
- 6  Others, please specify \_\_\_\_\_

51. To what extent does your ERP/Information system meet institutional business requirements or delivers value for money?

81%-100% <input type="checkbox"/>	61%-80% <input type="checkbox"/>	41%-60% <input type="checkbox"/>	>40% <input type="checkbox"/>
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52. How frequently do you experience problems with your ERP/Information Systems?

- 1  Daily
- 2  Once per week
- 3  Once per month
- 4  Hardly

Others, please specify \_\_\_\_\_

53. What is the extent of your reliance on vendor/supplier support on resolution of ERP/Information System(s) issues?

81%-100% <input type="checkbox"/>	61%-80% <input type="checkbox"/>	41%-60% <input type="checkbox"/>	>40% <input type="checkbox"/>
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54. What is the name of the vendor who implemented or support your ERP Systems)?

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55. Was your staff trained to develop and maintain the integrated administrative information systems/ERP

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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56. Is the institution data available from the computer-based information system/ERP of the Institution (Please tick )?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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57. Which other systems, apart from ERP/MIS are in use in your institution \_\_\_\_\_

58. a). Is any of your systems hosted in the private, community or public cloud?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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b). If yes, please state the systems hosted in the cloud \_\_\_\_\_ .

59. Where are your information systems servers (ERP, LMS etc.) located?

	Institution Server Room (tick)	Public/Community Cloud (tick)
Computer-based information system /ERP	1	2
LMS	1	2
Others, Specify		

60. Do you have a centralized identity database (shared user database) for authenticating your users into Internal systems like ERP, LMS, Library Catalogue?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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## Cyber Security and Business Continuity

61. Does your institution have approved ICT policies and procedure manuals (e.g., ICT security, disaster recovery plan, business continuity plan)?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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62. a). Do you have a disaster recovery plan for the systems running in your institution?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
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b) If **yes**, in what ways do you perform disaster recovery?

- 1  Full disaster recovery site (i.e., all services can run on the secondary site)
- 2  Offsite backup site for dumping files and databases
- 3  FREE Offsite storage (e.g., Google Drive or Dropbox)
- 4  others (describe)

c) If no, list some of the reasons \*e.g., budgetary constraints, lack of ICT expertise etc.)

\_\_\_\_\_

d) If yes, where is your DR site hosted. ?

- 1  Different location of the institution
- 2  KENET data center
- 3  External Public Cloud

Other \_\_\_\_\_

d) What is the total monthly cost of operating your full-fledged disaster recovery sites (e.g., servers, communication costs, colocation etc) KES \_\_\_\_\_



63. Which of the following KENET cloud services are you aware of?

Cloud Service	Please tick <input type="checkbox"/>
Disaster recovery	1 <input type="checkbox"/>
Colocation	2 <input type="checkbox"/>
Virtual Private Server (VPS)	3 <input type="checkbox"/>
Domain hosting	4 <input type="checkbox"/>
Web Hosting	5 <input type="checkbox"/>
Research cloud	6 <input type="checkbox"/>

## Data Protection Section

64. Have you ever heard of the Data Protection Act (DPA), 2019? i.e. the law which provides for the protection of personal data/information.

Yes  No

65. Are you aware of the Data Protection Act, 2019 and how it will affect your institution

Yes  No

66. Is your institutions complaint with the Data Protection Act 2019?

Yes  No

67. Has your institution registered as a Data Controller with the Office of the Data Protection Commissioner?

Yes  No

68. Are you aware of the right to privacy as guaranteed under the constitution of Kenya 2010?

Yes  No

69. Are you aware of the legal requirements that apply to you/your institution for processing sensitive and non-sensitive personal data?

Yes  No

70. How would you like KENET to assist you in implementation of the Data Protection Act 2019?

- 1  Develop data protection policy templates
- 2  Conduct capacity building/awareness sessions on the Act
- 3  Assist in implementing the Data Protection Act for your institution
- 4  Others Please Specify

71. What are the sources of the personal data your institution collects?

- 1  Individuals
  - 2  Government agencies
  - 3  Private Companies
  - 4  Others
- Specify \_\_\_\_\_

72. Are you aware of the data subject rights?

Yes  No

73. Do you have the following policies in place

Policy	Yes	No
Data Protection Policy (A policy that governs how your institution processes personal information in accordance with the Data Protection Act 2019)	1 <input type="checkbox"/>	2 <input type="checkbox"/>
Privacy Policy (A policy that informs persons whom you collect their personal data, how the data will be processed and stored.)	1 <input type="checkbox"/>	2 <input type="checkbox"/>

74. Does your institution? (Please tick)

	Yes	No
Process biometric data?	1 <input type="checkbox"/>	2 <input type="checkbox"/>
Use video-audio surveillance and/or facial recognition systems	1 <input type="checkbox"/>	2 <input type="checkbox"/>
Handle sensitive data such as health related data	1 <input type="checkbox"/>	2 <input type="checkbox"/>
Use personal data for direct marketing	1 <input type="checkbox"/>	2 <input type="checkbox"/>
Have any data protection training needs	1 <input type="checkbox"/>	2 <input type="checkbox"/>
Provide data protection training to employees	1 <input type="checkbox"/>	2 <input type="checkbox"/>
Make available privacy and data protection policies and notices?	1 <input type="checkbox"/>	2 <input type="checkbox"/>
Review privacy and data protection policies and notices to ensure they can be easily understood?	1 <input type="checkbox"/>	2 <input type="checkbox"/>

75. What threats if any has your institution encountered when complying with the DPA? [Please tick all that apply]

- 1  The potential of data tampering by third parties/our staff
- 2  Bureaucracy in registration
- 3  The possibility of eavesdropping and Data Theft
- 4  Password-Related Threats
- 5  Unauthorized Access to data/information
- 6  Data subject related issues
- 7  None
- 6  Others

Specify \_\_\_\_\_

76. How does your institution assess data related risks? [Please tick all that apply]

- 1  The potential of data tampering by third parties/our staff
- 2  Bureaucracy in registration
- 3  The possibility of eavesdropping and Data Theft
- 4  Password-Related Threats

77. And how does it mitigate these risks? [OPEN]

- 1  We adhere to the data protection act
- 2  We have a data protection policy
- 3  Data subjects must sign against a consent form before we access their data
- 4  We deploy of data loss prevention software and firewalls
- 5  Others

Specify \_\_\_\_\_

Name of ICT Director \_\_\_\_\_ Signature \_\_\_\_\_ Stamp \_\_\_\_\_

Name of CEO \_\_\_\_\_ Signature \_\_\_\_\_ Stamp \_\_\_\_\_

**THANK YOU FOR YOUR TIME**