

## Engineering Departments Baseline Survey Questionnaire. (Hard Facts)

### Chairman Department of Engineering (EE, ME, CE, etc.)

#### Questionnaire and Directed Interview Outline

#### General

1. Date: \_\_\_\_\_ Interviewer: \_\_\_\_\_
2. a) Full Name: \_\_\_\_\_ b) Designation \_\_\_\_\_ c) Signature \_\_\_\_\_
- d) Department: \_\_\_\_\_

3. Rank (Tick one)

Lecturer <input type="checkbox"/>	Senior lecturer <input type="checkbox"/>	Associate Prof <input type="checkbox"/>	Prof <input type="checkbox"/>
-----------------------------------	--	---	-------------------------------

4. E-mail Address \_\_\_\_\_ Mobile Number \_\_\_\_\_

5. Highest degree qualification: \_\_\_\_\_

6. Name of University: \_\_\_\_\_

7. Campus Location \_\_\_\_\_

8. Type of university (Please tick ):

Public <input type="checkbox"/>	Private <input type="checkbox"/>
---------------------------------	----------------------------------

9. Department Address:

Telephone	
E-mail	
Location	
Website address	

## Engineering Department Information.

10. Name of Engineering Department: \_\_\_\_\_

11a) List of undergraduate degree programs under department and enrollment

Name of Degree Program	Year Started/ Duration	EBK Accredited Yes/No	Enrollment in AY 2015/2016	Enrollment in AY 2014/2015	No. of Graduates in AY 2014- 2015	No. of Graduates in AY 2013- 2014	No. of Graduates in AY 2012- 2013	No. of Graduates in AY 2011- 2012
1.								
2.								
3.								
4.								
5.								

b) Undergraduate Enrollment in the current and last 4 years by Gender (FTE) –AY 2011/2012 – AY 2015/ 2016

Enrollment	Male		Female	
	Full Time	Part Time	Full Time	Part Time
AY 2015/2016				
AY 2014/2015				
AY 2013/2014				
AY 2012/2013				
AY 2011/2012				
<b>Total</b>				

12 a) Names of Master's Degree and graduates in the last 4 years.

Name of Master Programs	Year Started/ Duration	Evening / weekend program? (Yes/No)	Type of Masters (e.g. research only or research + project)	No. of Graduates in AY 2014-2015	No. of Graduates in AY 2013-2014	No. of Graduate AY 2012- 2013	Number of Graduate AY 2011- 2012
1.							
2.							
3.							
4.							
5.							

c) Masters enrollment in the current and last 4 years by gender (AY 2011/2012 – AY 2015/ 2016)

Enrollment	Male		Female	
	Full Time	Part Time	Full Time	Part Time
AY 2015/2016				
AY 2014/2015				
AY 2013/2014				
AY 2012/2013				
AY 2011/2012				
<b>Total</b>				

13. a) Name of PhD programs and PhDs awarded in the last four years

Name of PhD Programs	Year Started/ Duration	Number of PhDs awarded in AY 2014-2015	Number of PhDs awarded in AY 2013-2014	Number of PhDs awarded in AY 2012-2013	Number of PhDs awarded in AY 2011-2012
1					
2					
3					
4					
5					

b) Number of PhD students enrolled in the department by gender current and in the last 4 years (AY 2011/2012 – AY 2015/ 2016)

Enrollment	Male		Female	
	Full Time	Part Time	Full Time	Part Time
AY 2015/2016				
AY 2014/2015				
AY 2013/2014				
AY 2012/2013				
AY 2011/2012				
<b>Total</b>				

14) How many engineering faculty members are employed in your department? (Exclude faculty from service departments and those on unpaid leave of absence).

Full –Time/Part Time Faculty Members	Number		Number with PhD in engineering/ICT		Number registered with Engineers Board of Kenya (indicate graduate or full-engineer)	
	Full Time	Part Time	Full Time	Part Time	Full Time	Part Time
Tutorial fellows						
Assistant lecturers						
Lecturers						
Senior lecturers						
Associate professors						
Professors						
<b>Total</b>						

### Departmental Budget

15.

Budgets (Ksh )	FY 2012/2013	FY 2013/2014	FY 2014/2015	FY 2015/2016
a) Infrastructure (new buildings, classrooms, labs, ICT infrastructures, faculty offices)				
b) Research				
c) Teaching equipment / computer labs investments (new labs, equipment upgrades)				
d) Annual Instruction budget (e.g., white boards, electronic parts, teaching materials)				

16. Gross Salary range for faculty and average for department

Salary Ranges	Lowest (KShs)	Highest (KShs)	Average(KShs)
a) Tutorial fellow			
b) Assistant lecturer			
c) Lecturer			
d) Senior lecturer			
e) Associate Professor			
f) Professor			
g) Technologists			
h) Technicians			
i) Responsibility Allowances for Head of department			

17) What is the value of research grants awarded to your department by University or External donors in the last seven years (2009-2015) in Ksh \_\_\_\_\_

**Engineering and ICT Research and Innovations Output**

18) Do Engineering undergraduate students participate in local or international engineering project exhibitions or competitions?

Yes  No

19) If yes, name one exhibition or competition \_\_\_\_\_

20) Are Master’s students required to undertake a research project as part of their program?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
------------------------------	-----------------------------

21) How many Engineering Master’s research projects were completed in the last academic year (AY 2012-2013) from your department per degree program?

<b>Degree Program</b>	<b>Number of Research Projects</b>
1.	
2.	
3.	
4.	
5.	

22) How many Engineering PhD degrees were awarded in the last seven years (2009 – 2015)?  
From your department: \_\_\_\_\_

23) How many Engineering patents has your institution filed in the last seven years (2009-2015)?  
\_\_\_\_\_

24) How many Engineering journal research papers have been published by faculty or students in your institution in the last seven years (2009-2015)? \_\_\_\_\_

25) List the top 3 journals where the papers were published

a) Conference research papers

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

b) Technical research reports

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

26) a) Has your institution established an Engineering incubator or business park?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
------------------------------	-----------------------------

b) If Yes, number of projects incubated in the last 3 years \_\_\_\_\_

c) Name and Web address of incubation center or lab

i) Name \_\_\_\_\_

- ii) Web address \_\_\_\_\_
  
- d) Annual budget of the incubation center (FY 2012-2015) \_\_\_\_\_
  
- e) Annual grants awarded to incubation center (FY 2012-2015) \_\_\_\_\_
  
  
- f) Top three sources of funding for the incubation center
  - i) \_\_\_\_\_
  - ii) \_\_\_\_\_
  - iii) \_\_\_\_\_

**Faculty Development**

- 27) How many Engineering faculty members have published a textbook, conference papers, journal papers, and technical research reports in your department in the last seven academic years (2009-2015)?  
\_\_\_\_\_
  
- 28) How many externally funded research projects have been undertaken by faculty and researchers in your institution in the last seven academic years (2009-2015)? \_\_\_\_\_
  
- 29) How many Engineering refereed conference or journal papers were published by your department in the last seven academic years (2009 – 2015)? \_\_\_\_\_
  
  
- 30) How many lecturers pursuing PhD studies in your department \_\_\_\_\_
  
  
- 31) How many faculty members are on study leave pursuing full-time PhD studies at other universities (which university) \_\_\_\_\_
  
  
- 32) a) Does your department have formal partnerships or agreements with local industry and /or government for curriculum development and / or research projects or faculty internships

Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

b) If yes, give details of the top five partnerships

Name of Partnership (e.g., partnership with Safaricom)	Date of MoU/Agreement	State Purpose of Partnership (curriculum review)	Number of faculty directly involved
1.			
2.			
3.			
4.			
5.			

**Laboratory Facility**

33) Do you have specialized labs (software development, network design)?

Yes  No

34) How many networked computers are available to students in your department? \_\_\_\_\_

35) What is the capacity of the wireless LAN in your department for use by students? \_\_\_\_\_

36) a) Do your students or faculty use advanced scientific grid infrastructures and other e-infrastructures available through Research and Education Network.

Yes  No  Do not know

b) If yes, name one e-infrastructure site used by your faculty \_\_\_\_\_

37) List the engineering lab facilities that need to be upgraded in the next two years

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

38) What is the approximate cost of upgrading the lab facilities \_\_\_\_\_

39) Do you have all the lab facilities required to support your degree programs or do you need collaboration with other universities

Yes  No

40) a) What is the average age of workstations and servers in your student computer labs (include servers and specialized computers used for Computer-Aided Design)? \_\_\_\_\_

b) What is the operating system used in the computer labs \_\_\_\_\_



c) Do you have UPS and backup power for ALL your offices, classrooms, and labs including the computer labs and/or specialized computer labs?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
------------------------------	-----------------------------

d). Does your department have WiFi cover for faculty offices, classrooms, student-areas, and labs?

Yes <input type="checkbox"/>	No <input type="checkbox"/>
------------------------------	-----------------------------

e). If Yes, indicate the size of your WiFi network in terms of access points and number of concurrent users supported

i) Access Point \_\_\_\_\_

ii) Concurrent users capacity \_\_\_\_\_

### Impact of ICT

41) To what extent do you think implementation of ICT has enabled the realization of the following outcomes in your department (on a scale of 1-5)?

	Strongly disagree 1	Somewhat disagree 2	Neither agree nor disagree 3	Agree 4	Strongly agree 5
a. Enhanced the quality of teaching					
b. Enhanced quality of learning					
c. Improved research productivity, e.g. no. of research papers published					
d. Expanded research opportunities, e.g. collaboration opportunities					
e. Increased the efficiency of operations/processes					
f. Improved quality of service delivery to students and faculty					
g. Increased transparency and accountability					

**I hereby confirm that the data provided in this questionnaire is true and accurate as per the departmental / university records.**

Name of Chairman of Department .....Signature..... Stamp.....

Name (Dean of Engineering) .....Signature.....Stamp.....

**Thank you for your time.**