10/13/2022

INSTRUCTORS

MR. Paul Oyile

ROSELIDA ONG’ARE

INDUSTRIAL TRIP REPORT

REG NO: BIT/0042/20

KWEYU CLEOPHAS

**INTRODUCTION**

Industrial Trip are usually the first point of interaction between a student and a live working industry. The students learn about the latest technology trend and make up their minds about their future job or area of interest.  However, students and teachers both should take this seriously and utilize this industrial trip for learning and enhancing their skills. This trip should not be wasted in idle fun and jokes and should be used for team bonding and learning along with a bit of fun.

The University organizes industrial trip to help students understand about the practical aspects of production, marketing, labor relations and other activities managed by industrial sectors.

### Objectives of the module

* To provide students an insight regarding internal working of companies. We know, theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, industrial visit provides student a practical perspective on the world of work.
* It provides students with an opportunity to learn practically through interaction, working methods and employment practices.
* It gives them exposure to current work practices as opposed to possibly theoretical knowledge being taught at college.
* Industrial visits provide an excellent opportunity to interact with industries and know more about industrial environment.

### Expectation

* Learner should be able to understand what’s happening in the industry currently.
* Improve interpersonal skill by communicating directly with industrial personnel.
* Aware of the roles and ethics of Software engineers in related industries.
* Develop awareness of the engineering and technological aspects in the industries.

### Content

#### Day 1 on 13/10/2022

This was the arrival day. We started our journey in the evening heading to Busia which took us one and half hours to arrive a place called Border Hotel found in Busia town for accommodation and conference.

#### Day 2 on 14/10/2022

We had two speaker from different company

10AM to 12PM

**Speaker**: Crispin Oguna, Huawei Certified Academy Instructor

Topic: Much about Huawei, what it does

* Choluteca Bridge >what happen when you can’t adapt. Every system is particularly design to get results it gets

Contents

* Big data era
* Huawei kunpeng Data solution

**Huawei**

Founder: **Ren Zungfei**

Industries Solutions

* Education-Zoom
* Energy smart energy
* Finance
* Governance
* Healthcare
* ISP
* Manufacturing

4th industrial revolution and Embracing Intelligent Era

* Steam power
* Electric power 1860-1920
* Computer and communication -Wi-Fi and internet 1940-2010
* Cloud computing and big Data ,IoT,AI

Changes in the ICT Industry: Bottleneck of system construction

Data become a new asset and

1. Capital and technology>data and intelligent become a major resource

2.>Technical architecture Evolution of the cloud -base Data Mid-End

Moving from data management to data operations

* How much Data is collected
* Data drives Domain making
* Data drives process

Big Data Era refers to data sets with sizes beyond the ability of the community and use software tools to capture, manage and process data

* Volume
* Velocity
* Variety
* Value

Big Data Processing vs. Traditional Data Processing

Data scale>large (GB, TB) -small (mb)

Data types>structured data in traditional (single data type)- various data types

Big Data Market Analysis > predicted that the overall scale of the big data will exceed the city

SD1>software defining wide area network

>>look about structured, semi-structured data

2. Huawei Kunpeng Big Data Solution

Kunpeng -processor to manage big data solution

Huawei Big Data Services

* One Stop services for data development, test, and application
* Tools
* Kafka
* Loader
* Internet of everything -massive volumes of Data Requires high Computing power
* Smart mobile devices are replacing traditional

Panorama of kunpeng Computing Industry Ecosystem

* Technical echo-system
* Developer ecosystem
* Community building
* Collaboration with the university
* Industrial ecosystem
* Partner ecosystem

Built the computing capability of the entire system of the Huawei processor

* Efficient computing
* Safe and reliable
* Open ecosystem

2PM to 4PM

**Speaker**: Justus Wanjala – CEO Loan spur LTD

Agenda

#### Day 3 on 15/10/2022

**Speaker**: Gwen Waswa

ICT Areas

1. Information Security

* Cyber security

Reasons for the shortage of cyber security experts are various and vary in by region

**Efforts to enhance employability**

1. Internship programs >

* public service commission
* IcT authority

1. Ajira Online
2. Innovation -White box

Jobs in ICT

Analysis and designer

Expected and required skills

Can you test for all skills?

* Communication skills
* Design skill
* Reaction pressure
* Professional and industrial skills
* Management skills

Career awareness

Laws governing ICT in Kenya

* The constitution of Kenya 2010

As a source of law enshrines the rights to access information held by the state and that held by another person

* Kenya vision 2030

Development goes for wealth and job creation is achieved through industrialized information society

Objectives

**Facilitate creation of dignified jobs that provide financial security independence to allow**

1. Innovation and future thinking
2. Local and international connectivity
3. Develop real solution

**Ethical issues in IT**

* Personal privacy
* Access rights
* Harmful action
* Copyright
* Reliability

What are safety issues in ICT policy guidelines?

What you should take care of:

* Trailing cables
* Split drinks or food
* Heavy object falling

**Applications and E-government services**

* To transform Gov. by modernizing processes
* Offer better delivery processe

**Key Initiatives**

* Optimizedand automate department core processes
* e-payment- improve payment processing
* government wide collaboration

**A citizen interact with the government as follows:**

1. Gradle
2. Twilight
3. Adulthood
4. Teenage

**Benefits to government**

Law and policy making

Better regulation

Faster and better formulation of policies

Taxation -better revenue

**Benefits to business**

* Increased velocity of business
* Certainty in getting the services
* Better quality of life
* Ease of access of information
* Added convenience-multiple deliverance channel

**Ingredients of transformation**

* Department centric approach>customer centric approach
* Output based- outcome based

**Government shared application**

* Human resource services
* Finance services
* Procurement
* Email and websites
* Technology support services

Application

Data Hubs

Personal Data hub >IPRS> all our detail are in

**Information Security:**

Protection of information and information systems against unauthorized access

**Role:**

**Gov.** Concern for information security

Growth of internet across the world has increased

### Skills acquired

Members acquired the following skill as reported in the meeting:

* Communication skills.
* Writing skills.
* Interpersonal relationship.
* Listening skills.
* Analytical skills.
* Data collection skills.
* Creativity skills.
* Time management skills..
* Finance management skills.

#### Challenges experienced during training

* Misunderstanding/ internal conflicts.
* Poor time management.
* Lack of Wi-Fi in the conference room for virtual speaker.
* Power disruption

### Conclusion

Despite the few challenges faced during the trip, successfully we gained a lot of knowledge, skills and important information about what is required outside there and software application.

### Recommendation

From the challenges we encountered during the training, I as an individual recommend that, the department should consider time management.