

## **Semester Report**

Our second semester started on a low note since we didn't learn for the major part of January as most lecturers were involved in meetings to evaluate the performance of students in the December exams.

We had the following units:

1. Systems Analysis and Design - Dr Petronilla
2. Operating Systems ii - Samson Ochingo
3. Numerical Linear Algebra - Martha Gichuki
4. Principles of Industrial Management - Protus Lumiti
5. Scientific Computing - Dr Lawrence Nderu
6. Database Systems - Joan Gichuru
7. Digital Logic - Dr Ephraim Warutere Mureu
8. Design and Implementation Of Computer Applications - Okumu Maxwell

### **1. Systems Analysis and Design**

#### **▢ Systems Analysis and Design SAD**

Dr Petronilla made sure we have covered all the powerpoint presentations necessary to help us sit for our finals.

#### **Lessons**

We had blended lessons: some virtual other physical

#### **CATs and Assignments**

We had one cat- which was online- and 3 assignments.

### **2. Operating Systems ii**

#### **▢ OS 2**

Sir Ochingo covered the syllabus in good time leaving us with almost(if not more than) two weeks to revise for our exams.

#### **Lessons**

Our lessons were purely physical.

#### **Assignments and CATs**

We had one Sit-in(Physical) CAT and I'll have to say that unlike other CATs where it's usually a matter of recalling he gave us two application questions, each worth 10 marks, and most of us didn't perform well in it. He also gave us one assignment which I'm sure helped most students boost their marks.

### **3. Numerical Linear Algebra**

Martha Gichuki covered the syllabus with almost three weeks to the exam she was lively in class and having her as our lecturer made me realise that I can go over a mathematical unit virtually (I was previously sceptical about virtual maths lessons)

#### Lessons

Mostly virtual with two lessons being physical.

#### CATs and Assignments

We had one CAT and one Assignment - most students did well in both.

### **4. Principles of Industrial Management**

#### **▢ Principles Of Industrial Management**

Our lecturer, Protus Lumiti, also covered the syllabus in record time, he shared real life examples of entrepreneurs which helped us think outside the box with reference to how we can earn money.

#### Lessons

Mostly physical with the exception of one lesson.

#### CATs and Assignments

We had 3 CATs:

1. Two were takeaway CATs
2. One CAT was done in Groups and each group had the chance to present in front of the class, each group being graded on how well they did their research and how well they presented their findings. **▢ PIM Presentations**

### **5. Scientific Computing**

Dr Nderu started off with python basics before proceeding to python libraries such as Matplotlib (For plotting), Pandas (Data Analysis Library), NumPy, SymPy and he helped us understand the importance of scientific computing.

#### Lessons

Purely Virtual, every Friday afternoon.

#### CATs and Assignments

We had weekly assignments which were to be submitted every Wednesday on Piazza and one takeaway CAT **■ CAT\_REVISION\_ICS 2207 \_ SCIENTIFIC COMPUTING.pdf** .

## **6. Database Systems**

### **▢ Database Systems**

Joan Gichuru also covered the syllabus in record time which provided us with ample time to prepare for the finals. I liked her approach of doing work in groups and how she gave us stories of how databases used to be managed in the past and how we have come a long way.

### **Lessons**

Our lessons were purely physical.

### **CATs and Assignments**

We had one sit-in/physical CAT of which most students didn't do so well.

We also had an assignment which was done in groups starting off with the conceptual schema (Graphical Presentation of database ie the ERD) and later on implemented the database (Physical Schema).

## **7. Digital Logic**

### **▢ Digital Logic**

Dr Mureu covered all the necessary materials to enable us to sit for the examination.

### **Lessons**

Our first lecture was physical, the rest being virtual and we also had two lab sessions.

### **CATs and Assignments**

We had:

1. Two Sit-in Cats
2. One assignments
3. 2 Lab Reports

## **8. Design and Implementation Of Computer Applications**

### **▢ Design and Implementation of Comp App**

Sir Maxwell Okumu emphasised on doing a group project and tried to make sure we gain the necessary soft skills as well as technical skills required to be industry ready.

### **Lessons**

Mostly virtual with the exception of presentations, for proposals **▢ Design Proposals** as well as the final product.

### **CATs and Assignments**

We had:

1. Two sit in CATs

2. Three Assignments two uploaded on GitHub and one sent as zip file
3. Graded Presentations