

# CSE 300: Online Assignment

Md Shamsuzzoha Bayzid, Mahjabin Nahar, Md Shariful Islam Bhuyan,  
and Md Saidur Rahman

June 2021

## 1 Introduction

This assignment has been designed to assess the preparation of the students in writing scientific articles using L<sup>A</sup>T<sub>E</sub>X. This assignment covers a variety of components that are commonly used in scientific manuscripts.

### 1.1 Equations

Let  $a_0$ ,  $a_n$  and  $b_n$  are terms of a series. Their definitions are given by Eqn. 1.

$$\begin{aligned} a_0 &= \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) \, dx \\ a_n &= \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) \cos nx \, dx = \frac{1}{\pi} \int_{-\pi}^{\pi} x^2 \cos nx \, dx \\ b_n &= \frac{1}{\pi} \int_{-\pi}^{\pi} f(x) \sin nx \, dx = \frac{1}{\pi} \int_{-\pi}^{\pi} x^2 \sin nx \, dx \end{aligned} \tag{1}$$

### 1.2 Tables

We wish to place the Table at the bottom of the page.

### 1.3 Figures

We intend to put Figure 1 at the top of a page.

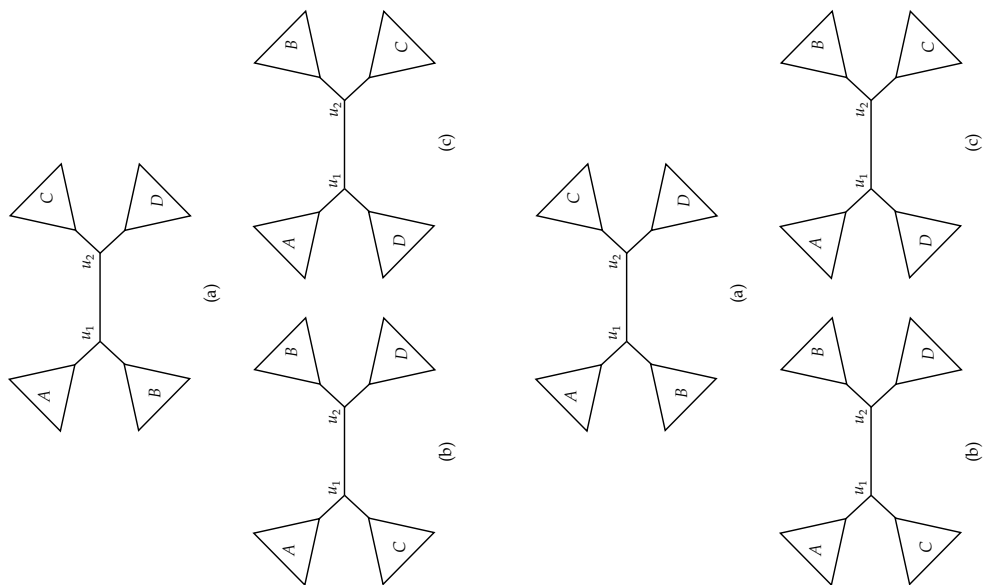


Figure 1: **Side by side same figure**

## 2 Conclusions

The major objectives of this assignment are listed below (please do not ignore the font sizes).

- To assess the ability of the students in preparing manuscripts in  $\text{\LaTeX}$ .
- To see if the students have adequately practiced different aspects of writing in  $\text{\LaTeX}$ .

Item List						
Item	Name	or	ALPHA 2 Code	ALPHA 3 Code	Numeric Code	
Product Name						
Item001			AF	AFG	004	
Item002			AX	ALA	008	
Item003			AL	ALB	009	
Item004			DZ	DZA	012	013 014
Item005			AS	ASM	016	
Item006			AD	AND	010	020
Item007			AO	AGO	024	025

- To see if the students can add various basic components (e.g., tables, figures, equations) to a  $\text{\LaTeX}$  manuscript.
- To see if the students can leverage the available materials (both offline and online) to do something which has not explicitly been taught in the class.