**Electronic Lecture Time-table Scheduler using Genetic Algorithm**

**Methodology Employed**

The given paper describes timetable generation to be an NP hard problem (a problem where there isn’t any specific approach or algorithm that can be used to solve it).The problem of timetable generation was defined as a problem of assigning the various resources to the meetings in a consistent manner. Timetable involves a set of incident E = {e1, e2,..…en} meeting a set of time to the said incident T = {t1, t2, …..ts}. The set of places where the incident occurred P = {p1, p2..,.pm} and a set of agents to conduct the incident A = {a1, a2, ….an} for example, lecturers. The paper describes the system design for an automatic timetable generation system using genetic algorithm. All the steps of genetic algorithm were clearly explained in the paper.

**Result Achieved**

A study was conducted to adopt the electronic timetable generation system against the manual system that was used in most of the Nigeria Tertiary Institutions of learning. Around 215 questionnaires were distributed, and their response was recorded. Opinion of respondents towards their perception on the two systems based on time consumption, efficiency, convenience and overall performance were analyzed on a Likert scale of three thereby resulting in the test of degree of relationship and formulation of hypothesis. Based on the empirical analysis of the study it was concluded that electronic system was more appropriate and would be the best method to adopt in tackling the lapses of its manual process.

**Scope of future improvement**

The given system designed for approved by 93% of the people involved in the study. However, the system doesn’t provide the system specifications and modifications to handle soft constraints appropriately.

**Platform dependency and Experimental setup requirements**

Java was the programming language used for the development of the front end and Microsoft SQL Server was employed for designing the back end. Window 7 operating system is the minimum operating system required to run the application. Also, Adobe PDF reader or any other PDF reading software was used.