



ODUDUWA JOURNAL

OF NATURAL AND APPLIED SCIENCES

(OJNAS)

**E. U., Akomolafe
& Others**

Antibiotics Susceptibility Pattern of Bacteria Isolated from Restaurants in Oduduwa University, Ipetumodu, Osun State, Nigeria.

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Physicochemical Characteristics and Fatty Acid Profile of the Seed oil of Jatropha multifida.

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Assessment of Activity Concentration of Dominant Natural Gamma Emmiting Radionuclide in Bedrock Samples in the Quarry Site of Ewekoro Cement Factory.

University Lecture Timetable Automation.

O.A. Oyetade,

& Others

Evaluation of Nutritive, Antinutritive Values and Physiochemical Compositions of Bombacopsis glabra (Nut Flour and Oil).

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Effect of Crude Extract of Venonia amagdalina on Tissue Fatty Acids and Cholesterols Content in Experimental Diabetes.

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Offence Management System (A Case Study of Oduduwa University)

Awojoodu Soji

The Importance of Application Packages to Computer Users.

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Oduduwa University was established as a private tertiary institution in January 2009. The aim of the University is to contribute to mold students with morally upright characters, deep thinkers, versatile in academic and entrepreneurial skills, who will positively impact their environments towards uplifting human development.

The vision of the University is:

To provide a well-balanced university education without discrimination, for the production of versatile graduates with capacity for entrepreneurship for the development of the nation.

The mission of the University is:

To create a learning environment for students as well as to motivate and nurture the qualities of human beings with a view to contributing towards meeting the economic, scientific and technological needs of humanity.

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*Chief (Dr.) Ramon Adegoke Adedoyin
President, Chairman, Board of Trustees,
The Maye of Ife Kingdom*

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Table of Contents

• Antibiotics Susceptibility Pattern of Bacteria Isolated from Restaurants in Oduduwa University, Ipetumodu, Osun State, Nigeria. - <i>E. U., Akomolafe, A. E. Adewoyin and A. E. Amoo</i>	1
• Chemical Speciation and Fractionation of Municipal Solid Waste Soil ; A Case Study of Osogbo Waste Dumpsite, Nigeria. - <i>O. A. Olayiwola</i>	15
• Physicochemical Characteristics and Fatty Acid Profile of the Seed oil of <i>Jatropha multifida</i> . - <i>A. Adeyeye and O. D. Ayodele</i>	29
• Assessment of Activity Concentration of Dominant Natural Gamma Emmiting Radionuclide in Bedrock Samples in the Quarry Site of Ewekoro Cement Factory. - <i>O.O. Oladapo, E.A Oni., A.O. Olive Adelodun, A.A. Aremu</i>	37
• University Lecture Timetable Automation. - <i>Babatunde A. O. and Oladipo I. D.</i>	47
• Evaluation of Nutritive, Antinutritive Values and Physiochemical Compositions of <i>Bombacopsis glabra</i> (Nut Flour and Oil). - <i>O.A. Oyetade, O. A. Olayiwola, B. M. Adegoke & Shittu, S.A.</i>	68
• Effect of Crude Extract of <i>Venonia amagdalina</i> on Tissue Fatty Acids and Cholesterol Content in Experimental Diabetes. - <i>R. O. Lawal</i>	81
• Offence Management System (A Case Study of Oduduwa University) - <i>Dr. Adeniyi Salau</i>	93
• The Importance of Application Packages to Computer Users - <i>Awojoodu Soji</i>	101

UNIVERSITY LECTURE TIME-TABLE AUTOMATION

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Abstract

One of the most important activities of a University is organization of lecture for her students using lecture time table. However, the time tables that the Universities are using are manually done, which make the lecture timetable not to be easily accessed, inaccurate, inconsistency, and time consuming in preparation. This study therefore carried out the automation of the University lecture time table with a view to getting a reliable, accurate, easily updated and easily accessed lecture time table. The method used involved interviewing the faculty Sub-dean, the Head of the various Departments in the faculty to get necessary relevant documents like the lecture venues, course lecturers, list of courses in the various Departments, population of students in each level and the duration of the lecture. An object programming language with a PHP was used to design the automated software. Comparative analysis was also made of the new automated system with the old manual method. Findings showed that the automated time table generated is error free, accurate and reliable and can also be used to generate future lecture time table.

Introduction

Timetabling is a highly complex problem which is part of the wider field of scheduling, a subject of extensive research over the past half-century. Scheduling is broadly defined as the problem of the allocation of resources over time to perform a set of tasks and is a prominent example of combinatorial optimization problem. . With the ever changing population of large educational institutions, it is becoming more paramount than ever before to have timetable generators.

Timetabling can be taught as a decision process which

involves the allocation of limited resources into tasks in a given time. The resources can be people or objects. it is also the problem of scheduling a set of events (for example: lecture, lecturers, classes etc.) to a specific time slots as no person or resources is expected to be in one or more at same time. (Burke et al.1994).

The lecture timetabling system involves assigning lectures to a given number of periods within a defined lecture session while satisfying the following constraints:

- Considering all departments in the Faculty of communication and information science.
- All the courses offered in each department.
- The total number of student in each level across the various departments including both students with carry over and repeaters.
- Considering the classroom/venue with individual capacity and number of invigilators.

Related Works

Automated Lecture Timetabling has been addressed by a wide variety of methodologies and techniques. Some of these techniques includes, heuristic Ordering Based method which is very similar to those used for graph colouring problem and have long been applied successfully to the lecture timetabling problem, simulated Annealing which was used by Egles Rand in 1987 and Johnson 1990. Also generic Algorithm was recently applied to lecture timetabling (Burke et al.1994, conr et al.1994).

Kang and White in 1992 also proposed the logic programming approach to the school timetable problem. Many *useful algorithms have been suggested for solving the university course timetabling problem. In all the methods enumerated above, none of the methods have actually been extended to the solution of actual university problems of any large scale, hence the automation of the University lecture time tabling as a way out.*

Materias and Methods Methodology

The method used in collecting data and information for this study are:

- **Documentation Method**

This method helps us to study some of the previous document used in the faculty. These documents involved information of lecture schedule, course offered in each department. It also include projects work by other writers and authors used like "Construction of lecture Timetables Base on Ordering Heuristics by Syariza Abdul Rahman and Burke K. Edmund in University of Nottingham, School of Computer Science, UK".

- **Interview Method**

With the use of interview method, we are able to get some information especially on the existing system and the problems encountered in running the system. We visited Dr. A.O Tella who is the Sub-Dean and we asked him some questions about the existing system.

Analysis of the Existing System

Currently in the Faculty of communication and Information science, lecture Timetable is generated manually with the help of program like Microsoft Word and Microsoft Excel with the use of table.

The scheduling is done at the Faculty, and all the courses offer in each department is arranged with a given time into the table. Then it is pasted at each department's notice board so that each student can write the detail for their lecture schedule.

Problem of the Existing System

While using the current system, there are several problems which occur in running through the system, these include:

- (i) Wastage of valuable time through the manual method of scheduling and allocation which makes the entire system frustrating and non-encouraging.
- (ii) Wastage of resources especially writing materials.
- (iii) The existing system is incapable of urgent alteration of the timetable.
- (iv) Course of action is time consuming.
- (v) The total number of personnel needed for efficient manual formulation is relatively high compared to the computerized system.
- (vi) The system is liable to error

Description of the Proposed System

The proposed system is designed in modules with each modules working together to perform the goal of aptitude test system in order to enhance the performance of the existing system. The system is coupled with Front-End Device that generate constraints corresponding to assumption specialized by the user and report writer that facilitate the representation of the result schedule. The quality of the schedule produced depends on the relative position of the course assigned to the available time period.

The whole system is flexible and allows easy construction and testing of alternative scheduling which are pre-conditioned according to requirements specified by the user (Elsevier science B.V. 2001).

Requirements of the Proposed System

For the effectiveness of the proposed system, all the courses offered in each department of the faculty is registered into the system. Using the Faculty of Communication and Information Science as a case study, the following courses are registered into the system.

Courses for the Department of Library and Information Science

S/N	COURSE CODE	LIBRARY AND INFORMATION SCIENCE COURSE TITLE	COURSE STATUS	COURSE CREDIT	SEMESTER	LEVEL
1	LIS 101	Introduction to Information Professions	C	2	Harmattan	100
2	LIS 103	Library in its Social and Cultural settings	C	2	Harmattan	100
3	LIS 105	Basic reference sources and Services	C	2	Harmattan	100
4	LIS 102	Introduction to Libraries	C	2	Rain	100
5	LIS 106	Information User	C	2	Rain	100
6	CSC 111	Introduction to Computer Science I	R	2	Harmattan	100
7	CSC 114	Computer Appreciation I	R	2	Rain	100
8	MAC 104	History of Nigerian Media	R	2	Rain	100
9	ICS 101	Information Communication and Society	R	2	Harmattan	100
10	TCS 101	Introduction to Tecomunications I	R	2	Harmattan	100

200 LEVEL						
S/N	COURSE CODE	COURSE TITLE	COURSE STATUS	COURSE CREDIT	SEMESTER	LEVEL
1	LIS 201	Organization of Knowledge I	C	2	Harmattan	200
2	LIS 202	Organization of Knowledge II	C	2	Rain	200
3	LIS 203	Library and Information Services to Rural Communities	C	2	Harmattan	200
4	LIS 204	Information Sources in the Humanities	E	2	Rain	200
5	LIS 206	Information Sources in the Social Sciences	E	2	Rain	200
6	LIS 208	Information Sources in Science and Technology	E	2	Rain	200
7	LIS 209	Introduction to Knowledge Management	C	2	Harmattan	200
8	LIS 210	SIWES	3	C	Rain	200
9	MAC 219	Yty	R	3	Harmattan	200
10	MAC 225	Introduction to Advertising	R	2	Rain	200
11	MAC 236	Basic Statistics for Communication and Information Sciences	R	2	Rain	200

300 LEVEL						
S/N	COURSE CODE	COURSE TITLE	COURSE STATUS	COURSE CREDIT	SEMESTER	LEVEL
1	LIS 301	Collection Development	C	2	Harmattan	300
2	LIS 302	Technical Services in Libraries and Information Centres	E	2	Rain	300
3	LIS 303	Automation in Libraries and Information Centres	C	2	Harmattan	300
4	LIS 304	Research Methodology in Library and Information Science	C	3	Rain	300
5	LIS 305	Reference and Information Sources and Services	C	2	Harmattan	300
6	LIS 306	SIWES	C	3	Rain	200
7	LIS 307	Management of Library and Information Centres	C	2	Harmattan	300
8	LIS 308	Government Publications	E	2	Rain	300
10	ICS 312	Informatics Project	R	2	Rain	300
11	MAC 321	International Communication	R	2	Harmattan	300
12	MAC 322	Mass Media and Society	R	2	Harmattan	300

400 LEVEL						
S/N	COURSE CODE	COURSE TITLE	COURSE STATUS	COURSE CREDIT	SEMESTER	LEVEL
1	LIS 401	Indexing and Abstracting	C	2	Harmattan	400
2	LIS 403	Internet and Website Design	C	2	Harmattan	400
3	LIS 405	Records and Archival Management	C	2	Harmattan	400
4	LIS 407	School Libraries	E	2	Harmattan	400
5	LIS 409	Preservation and Conservation of Library Materials	C	2	Harmattan	400
6	LIS 411	Special Libraries	E	2	Harmattan	400
7	LIS 413	Academic Libraries	E	2	Harmattan	400
8	LIS 415	Online Information Retrieval	C	2	Harmattan	400
9	LIS 402	Entrepreneurship in Information	C	2	Rain	400
10	LIS 404	Publishing and Book Trade	C	2	Rain	400
11	LIS 406	National Libraries	E	2	Rain	400
12	LIS 408	Public Libraries	E	2	Rain	400
13	LIS 490	Research Project	C	6	Rain	400

Courses for the Department of Telecommunication Science

Course Code	Course Description	Cr.	Status
TSC101	Introduction to Telecommunications I	2	C
TCS201	Telecommunication and Networks I	3	C
TCS 301	Wireless system and Cellular Communication	2	C
TCS 303	Convergence Technologies	2	C
TCS 311	Networking I	2	C
TCS 305	Telecommunication Systems Laboratory I	1	C
TCS 307	Multimedia Networking	2	C
TCS 315	Pulse and Data Communication I	3	C
TCS 313	Network Programming	3	C
TCS401	Internet Network Troubleshooting	2	E
TCS403	Remote Asses Network	2	E
TCS405	Telecommunication Project Management	2	C
TCS407	Network Security	3	C
TCS409	Applications of Voice Telecommunications	3	C
TCS411	Wireless Telecommunication Networking	3	C
TCS413	Networking III	2	C
TCS415	Pulse and Data Communication II	2	C
TSC102	Introduction to Telecommunications II	2	C
TCS202	Telecommunication and Networks II	3	C
TCS212	Logic Circuits	2	C
TCS 204	E & M Waves	2	C
TSC 302	Work Station and Server Applications	3	C
TCS 304	Office Automation Technology	1	C
TCS 312	Networking II	2	C

Courses for Department of Mass Communication

100 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
MAC 109	Introduction to Mass Communication	3	C	MAC 104	History of Nigeria Mass Media	2	C
MAC 111	Writing for the Mass Media I	2	C	MAC 108	New Communication Technologies	2	C
MAC 113	African Communication Systems	2	C	MAC 112	Writing for the Mass Media II	2	C
MAC 115	Introduction to Foreign Languages I	2	C	MAC 114	Introduction to Foreign Language II	2	C
GNS 111	Use of English I	2	R	GNS 112	Use of English II	2	R
ICS 101	Information, Communication & Society	2	R	ICS 102	Information Literacy for the Digital Age	2	R
CSC 101	Introductory Computer Science I	2	R	CSC 112	Computer Appreciation I	3	R
POS 115	Nigerian Legal System I	2	R	POS 116	Nigeria Legal System II	2	R
Total No. of Credits		17		Total No. of Credits		17	

200 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
MAC 211	Photo Journalism	2	C	MAC 202	Theories of Mass Communication	3	C
MAC 213	Editing & Graphics of Communication	2	C	MAC 204	Feature Writing	2	C
MAC 219	Foundation of Communication Research	3	C				
MAC 221	News Reporting and Writing	2	C	MAC 220	Introduction to Radio Production	2	C
MAC 223	Introduction to Television Production	2	C	MAC 222	Introduction to Public Relations	2	C
MAC 225	Introduction to Advertising	2	C	MAC 224	Desktop Publishing Skills	3	C
GNS 211	Philosophy, Logic and Nigerian Culture	2	R	MAC 232	Internship	3	C
				MAC 236	Basic Statistics for Communication and Information Sciences	2	R
				GNS 212	Introduction to Social Sciences and Citizenship Education	2	R
Total No. of Credits		15		Total No. of Credits		21	

300 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
MAC 307	Photo Editing	2	C	MAC 304	Communication Research Methods II	3	C
MAC 311	Techniques of Television Production	3	C	MAC 306	Science and Technology Reporting	3	C
MAC 313	Advertising and Marketing Strategies	3	C	MAC 308	Internship	3	C
MAC 315	Community Newspaper	2	C	MAC 310	Techniques of Radio Production	3	C
MAC 319	Community Relations	2	C	MAC 312	Public Relations Techniques	3	C
MAC 321	International Communication	2	C	MAC 316	Community Broadcasting	2	C
MAC 323	Development Communication	2	C	MAC 322	Mass Media and Society	2	C
MAC 325	Mass Media Management	2	C	MAC 324	Magazine Management and Production	2	C
MAC 327	Newspaper Management and Production	2	C	LIS 330	COBES Programme: Mobile Information Service	0	R
MAC 329	Web Communication	2	C	ICS 312	Informatics Project	2	R
GNS 311	History and Philosophy of Science	2	R				
GSE 301	Graduate Self-Employment	3	R				
Total No. of Credits		19 for Print, 16 Broadcast, 18PRAD		Total No. of Credits		12 for Print, 15for Broadcast, 13 for PRAD	

400 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
MAC 401	Advanced Advertising	3	C	MAC 402	Advanced Public Relations	3	C
MAC 403	Advanced Radio Production	3	C	MAC 404	Advanced Television Production	3	C
MAC 405	Advanced Newspaper & Magazine Production	3	C	MAC 406	Advanced Photo Journalism	3	C
MAC 411	Investigative Journalism	3	C	MAC 424	Editorial Writing	2	C
MAC 427	Media Ethics	2	C				
MAC 429	Data Analysis in Communication Research	2	C	MAC 426	Media Law	2	C
				MAC 428	Critical Review and Writing	2	C
MAC 499	PROJECT	6	C	MAC 432	Media Policy in Nigeria	2	C
Total No. of Credits		22		Total No. of Credits		19	

Courses in the Department of Communication and Information Science

100 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
ICS 101	Information, communication and society	2	C	ICS 102	Information Literacy for the Digital Age	2	C

200 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
ICS 201	Database Development	2	C	ICS202	Web site Design	2	C
ICS 203	Business Environment	2	C	ICS 204	Data Structure & Algorithm	2	C
ICS 205	Operating System	3	C	ICS 290	SIWES: Long vacation	3	C
ICS 207	Communication Theory & Practice	2	C				

300 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
ICS 301	— — —	3	C	ICS 302	Object – oriented programming 2	3	C
ICS 303	Human Computer Interaction 1	2	C	ICS 304	Systems Analysis & Design	3	C
ICS 305	Applied Web Design & Mgt.	3	C	ICS 306	Human Computer Interaction 2	2	C
ICS 307	Info. Product and services.	3	E	ICS 308	Privacy issues & Information security	3	C
ICS309	Info. Resources Management	3	E	ICS 310	Research Methods	3	C
ICS 311	Mgt. Information Systems	3	E	ICS312	Informatics Project	2	R
				ICS 390	SIWES: Long vacation	3	C

400 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
ICS 401	Database Management System	3	C	ICS 402	Data Ware Housing & Data Mining	3	C
ICS 403	Web programming	2	C	ICS 404	Data Compression	2	C
ICS 405	Software Engineering	2	C	ICS 406	IT Project Management	2	C
ICS 407	E- Business	3	C	ICS 408	Distributed Systems	3	C
ICS 409	System Simulation & Modeling	3	C	ICS 410	Fundamentals of Web-Based Multimedia Communication	3	C
ICS 499	Project	6	C	ICS 412	Legal Issues in an Information Age	2	C

Courses in the Department of Computer Science 100 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
CSC 101	Introduction to computer science1	2	C	CSC 112	Introduction to computer science2	2	C
TCS 101	Introduction to telecommunication1			TCS 102	Introduction to telecommunication2	2	R

200 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
CSC211	Computer Programming 1	3	C	CSC 212	Computer programming 2	3	C
CSC213	Object Oriented programming	3	C	CSC 214	Introduction to File Processing	2	C
				CSC 216	Assembly Language	2	C
				CSC 220	Computer Architecture 1	2	C
				CSC 222	Database Design	3	C
				CSC 224	Internet Technology 1	2	C

300 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
CSC 321	Introduction to Digital Design	3	C	CSC 322	Industrial Attachment 1	3	C
CSC 325	System Programming	2	C	CSC 314	Compiler Construction 1	2	C
CSC 315	Operating System 1	2	C	CSC 316	Software Engineering 1	2	C
CSC 317	Data Structure & Algorithm 1	3	C	CSC 318	Computer Architecture 2	2	E
CSC 319	Internet Technology 2	2	E	CSC 320	Operating System 2	2	C
CSC 311	Automata Theory	2	C	ICS302	Informatics Project	2	R
				CSC 326	Artificial Intelligence 1	2	C

400 Level Courses

HARMATTAN SEMESTER				RAIN SEMESTER			
COURSE CODE	COURSE TITLE	CR	STATUS	COURSE CODE	COURSE TITLE	CR	STATUS
CSC 421	Data Structure & Algorithm 2	3	C	CSC 420	Software Engineering 2	2	C
CSC 423	Programming Verification	2	C	CSC 422	Data Communication	2	C
CSC 425	Data Mining and Warehousing	2	C	CSC 424	IT	3	C
CSC 427	Computer Networking	2	C	CSC 426	Parallel computing	2	C
CSC 429	Human Computer Interaction	2	C	CSC 434	Expert Systems	2	E
CSC 499	Project	6	C				
CSC 433	Neural Networks	2	E				

List of Students in each Level of each Department List of Students in each Department

DEPARTMENT Code	100 LEVEL	200 LEVEL	300 LEVEL	400 LEVEL
COMPUTER SCIENCE	73	68	65	86
MASS COMMUNICATION	65	60	58	55
INFORMATION AND COMMUNICATION SCIENCE	62	58	55	60
TELECOMMUNICATION SCIENCE	60	55	54	54
LIBRARY AND INFORMATION SCIENCE	30	28	30	25

List of Halls and their Capacities

SERIAL Code	HALL	CAPACITY
1	LR 1	96
2	LR 2	86
3	LR 3	110
4	LR 4	76
5	LR 5	85
6	ICS	50
8	TCS	50
7	LAB	50

Implementation and Documentation of the System

Choice of Programming Language

The programming language used for this proposed system is an object oriented programming language running on a platform that exchanges data with a database programming language named PHP. **The choice of PHP programming language is that the application will be available through the internet.**

PHP is used as the server side scripting language that enables scripts (embedded in web pages) to be executed by an internet server, JavaScript is used as the browser side scripting language and MySQL as the database engine used to store, update, validate and keep information about the type of operation to be carried out. Other software packages like the word processing package and graphic packages is used for clerical function of the division.

Hardware Support

The hardware used for the successful completion of this project included monitor, CPU, keyboard, mouse, printer and an uninterrupted power supply (UPS) and an internet access.

An appropriate hard disk storage of at least 120 GB (for the dynamically expandable database)

A minimum of 1.0 GHz processor

Random access memory (RAM) of at least 1 GB

An effective display unit (VGA monitor)

Standard input devices such as keyboard, mouse, etc.

CD-ROM drive or DVD-ROM drive (since the installation would be made through this medium)

An uninterrupted power supply (UPS) unit (to prevent abrupt interruption due to power failure)

A network modem (for internet connection).

Software Support

PHP

HTML (HYPERTEXT MARKUP LANGUAGE)

CSS (CASCADING STYLE SHEETS)

JAVASCRIPT

MSQL

Documentation of the System

Program Documentation

Register Courses

This is where the administrator registers courses at each level.

Add Lecturer

This is where the administrator registers lecturers.

Generate Timetable

This is where the administrator generates the timetable for each department at different level.

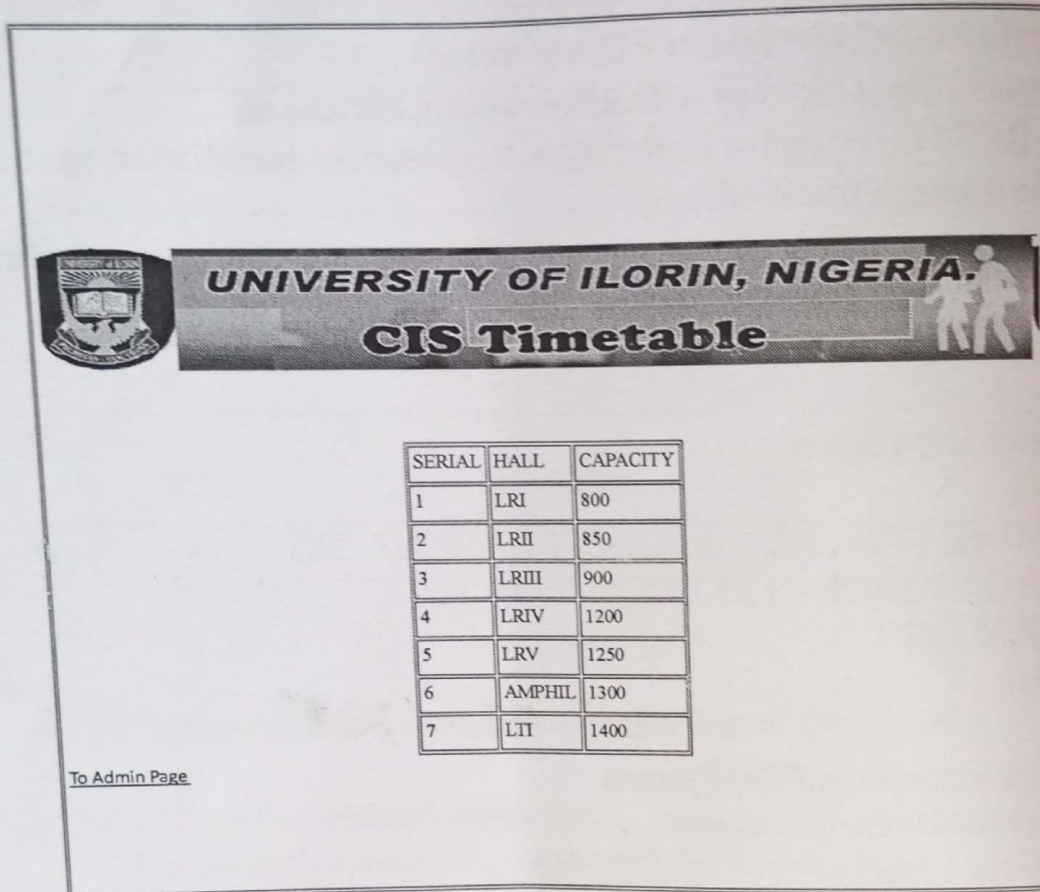
View Timetable

This is where the student can view the table for each semester.

System Evaluation

System evaluation is the stage at which the system developed is tested, accessed and compared to the existing system. This is to

ensure the actualization of the original set of the new system. Errors found at this stage are corrected for better performance. This application was evaluated by comparing the speed of operation and execution of the new system to that of the present manual system which is faster and consumes lesser space than the existing system. The new system was also checked for security, error prone and updating, and the results were favourable.



SERIAL	HALL	CAPACITY
1	LRI	800
2	LRII	850
3	LRIII	900
4	LRIIV	1200
5	LRV	1250
6	AMPHIL	1300
7	LTI	1400

[To Admin Page](#)

Figure 2: Generated list of Halls and their Capacities

Input Design

The input to be extracted from the proposed system are as shown below:

The screenshot shows a web browser window with multiple tabs titled 'Time Table Generat...'. The address bar shows 'localhost/lorahost...'. The page header features the University of Ilorin logo and the text 'UNIVERSITY OF ILORIN, NIGERIA. CIS Timetable'. The main content area is titled 'Add Course' and contains the following form fields:

- Course Name:
- Course Code:
- courseunit:
- coursestatus:
- semester:
- courselevel:
- Department:

At the bottom of the form are two buttons: 'Add Course' and 'Reset'.

Figure Courses

3: Register Courses

The screenshot shows the 'Register Courses' menu in the CIS Timetable system. The header is identical to the previous screenshot. The menu items are listed below the header:

- [Register Courses](#)
- [Add Lecturer](#)
- [Generate TimeTable](#)
- [View Total Students](#)
- [View Hall Capacity](#)
- [View Time Table](#)

Figure 4: Timetable Page After Login

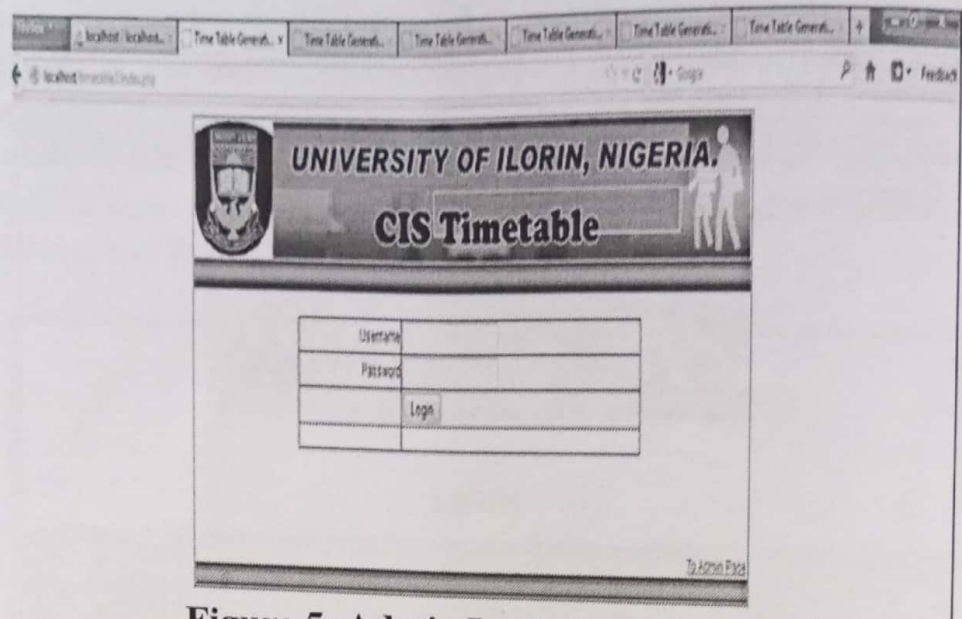


Figure 5: Admin Login Page, Login

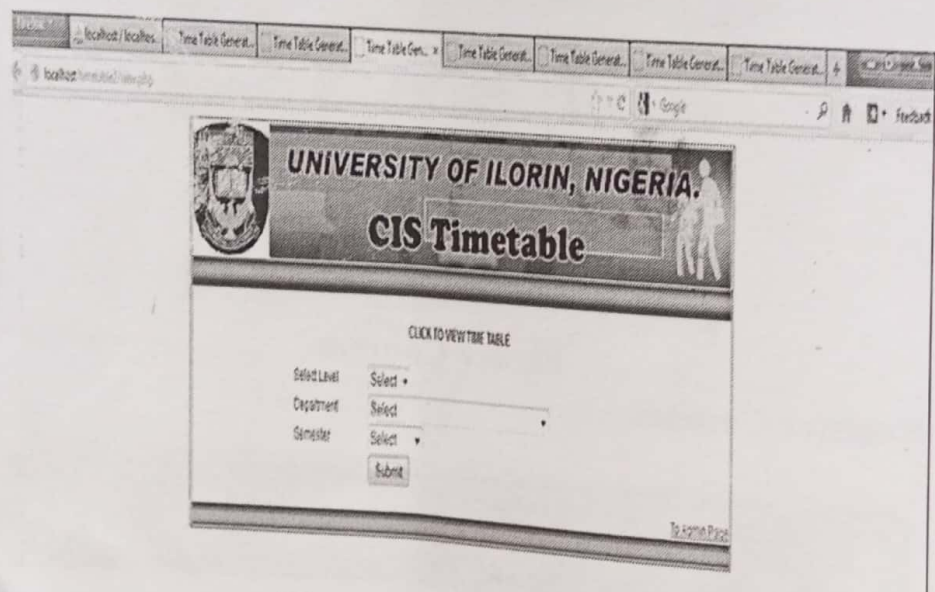


Figure 6: Home page

UNIVERSITY OF ILORIN, NIGERIA
CIS Timetable

Add Lecturer

Lecturer Name:

Lecturer Code:

Position:

Department:

Figure 7: Register Lecturer

UNIVERSITY OF ILORIN, NIGERIA
CIS Timetable

Set Up Time Table

Department:

Course Code:

Time Period: To

Semester:

Course Code:

Week:

Weekday:

Figure 8: Setup Timetable for each Department

4.5 Database Design

This refers to the tables used in the proposed system. The database design for the proposed system is as shown below

Administrator Table

	username	password
	admin	admin

Courses Detail Table

Showing rows 0 - 1 (-2) total. Query took 0.0006 sec

SQL query:

SELECT * FROM 'courses' LIMIT 0 - 10

May be approximate. See FAQ 5.11

Show 20 rows starting from record # 0

in horizontal mode and repeat headers after 100 cells

set by key: None

	courseid	coursecode	coursetitle	courseno	coursenam	courselvl	semester	dept
☒	1	csc121	computer package	1	C	HONFT	1	Computer Sci
☒	2	cam123	package	4	C	HONFT	FIRST	Computer Sci

Check All / Uncheck All With selected

Show 20 rows starting from record # 0

in horizontal mode and repeat headers after 100 cells

Query results operations:

Print view Print view (with full texts) Export CREATE VIEW

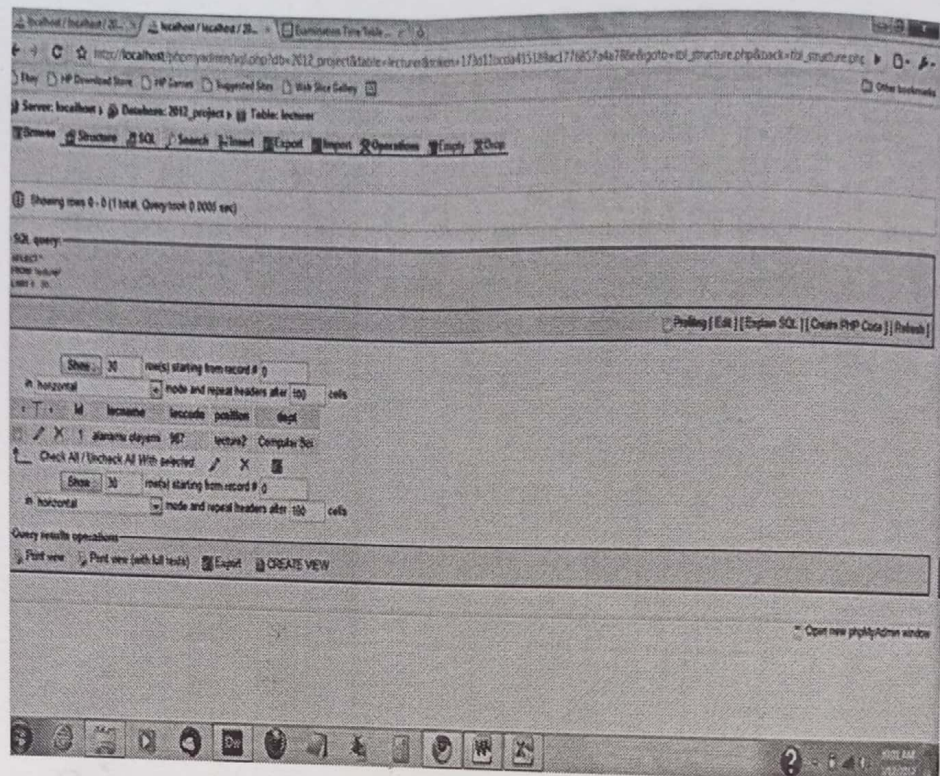
Hall Details Table

hall	capacity	level
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100

Students Overview Tables

id	dept	sec	level	name
1	Computer Sci	100	100	100
2	Computer Sci	100	100	100
3	Computer Sci	100	100	100
4	Computer Sci	100	100	100
5	Computer Sci	100	100	100
6	Computer Sci	100	100	100
7	Computer Sci	100	100	100
8	Maths & Stat	100	100	100
9	Maths & Stat	100	100	100
10	Maths & Stat	100	100	100
11	Maths & Stat	100	100	100
12	Maths & Stat	100	100	100

Lecturer Table



4.6 Procedure Design

This refers to the step by step method of using the designed system. The designed system comprises of Register Courses, lecturer, setup timetable. The steps to use the proposed system are as follows:

On the address bar of any browser type <http://localhost/timetable/index.php>

It displays the homepage of the site where you can login to the admin page.

Conclusion

Advantages of the Designed System

The Designed system has the following advantages over the manual method. The new lecture Timetable System for the Faculty of communication and Information sciences will make lecture conduct easier and time optimizing for effective and efficient utilization of Resources. The quality of the new system is also measured in terms of constraints satisfactions compared to the existing manual system. This system is hereby recommended to the University of Ilorin, Ilorin as a whole and all other College, Polytechnic and Universities.

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