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Web Programming
Applications

TIMETABLE GENERATOR

User Guide





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Introduction

Faculty members at Port Said University often struggle to create conflict-free timetables due to the multitude of courses offered and complex schedules. This can lead to stress, frustration, and even course overload.

A web-based timetable generator specifically designed for the Faculty of Engineering, it is a friendly tool that will simplify course scheduling and ensure a conflict-free semester.

User Guide

Welcome to the official user guide for the Port Said University Timetable Generator. This comprehensive guide delves into each web page functionality, enabling you to confidently navigate course scheduling with ease.

Step through each section at your own pace, and unlock the full potential of the Port Said University Timetable Generator.

Authentication Page

Upon initiating the Timetable Generator Web Application, you'll be greeted by a designated Authentication Page, as depicted in the figure below.

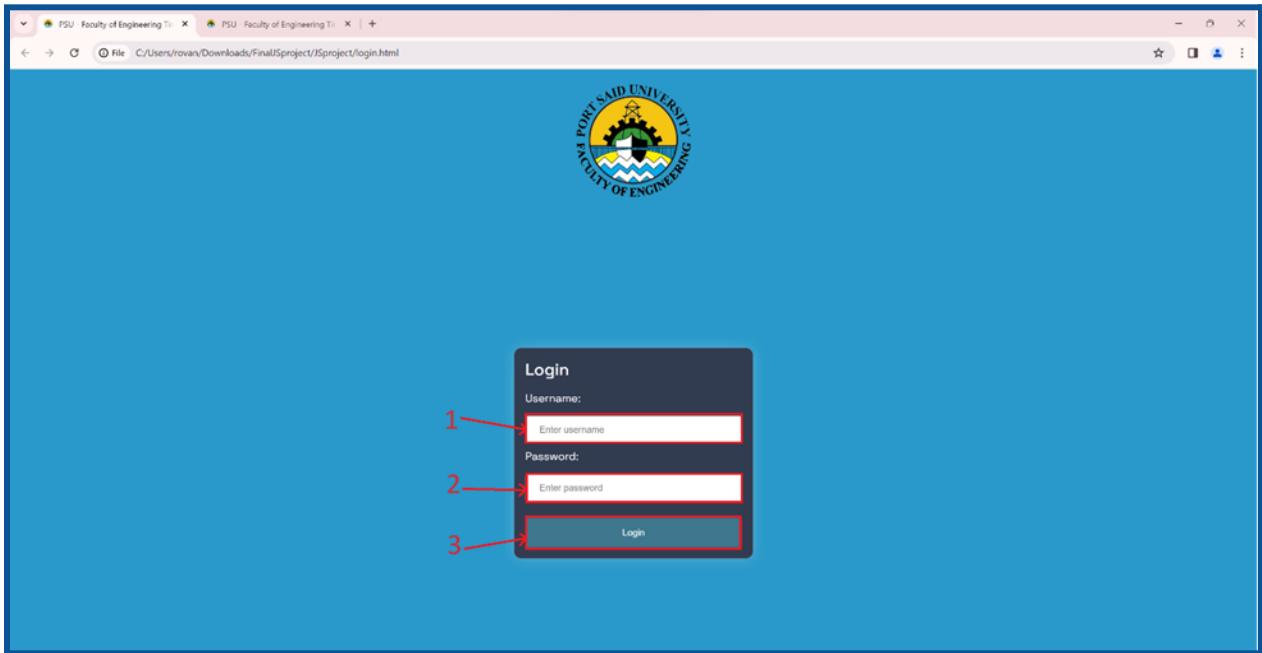


Figure (1), Authentication Page.

The Engineering PSU Web-Based Timetable Generator presents a clear and concise login page designed for ease of use.

To successfully authenticate, users are required to input their corresponding username and password within the designated fields. Only authorized users are able to login.

1. Enter your username in the “Username” field.
2. Enter your password in the “Password” field.
3. Click on the “Login” button.



Landing Page

Upon successful authentication, users are seamlessly directed to a Landing Page, which prominently features four distinct buttons, as visually illustrated in Figure (2).

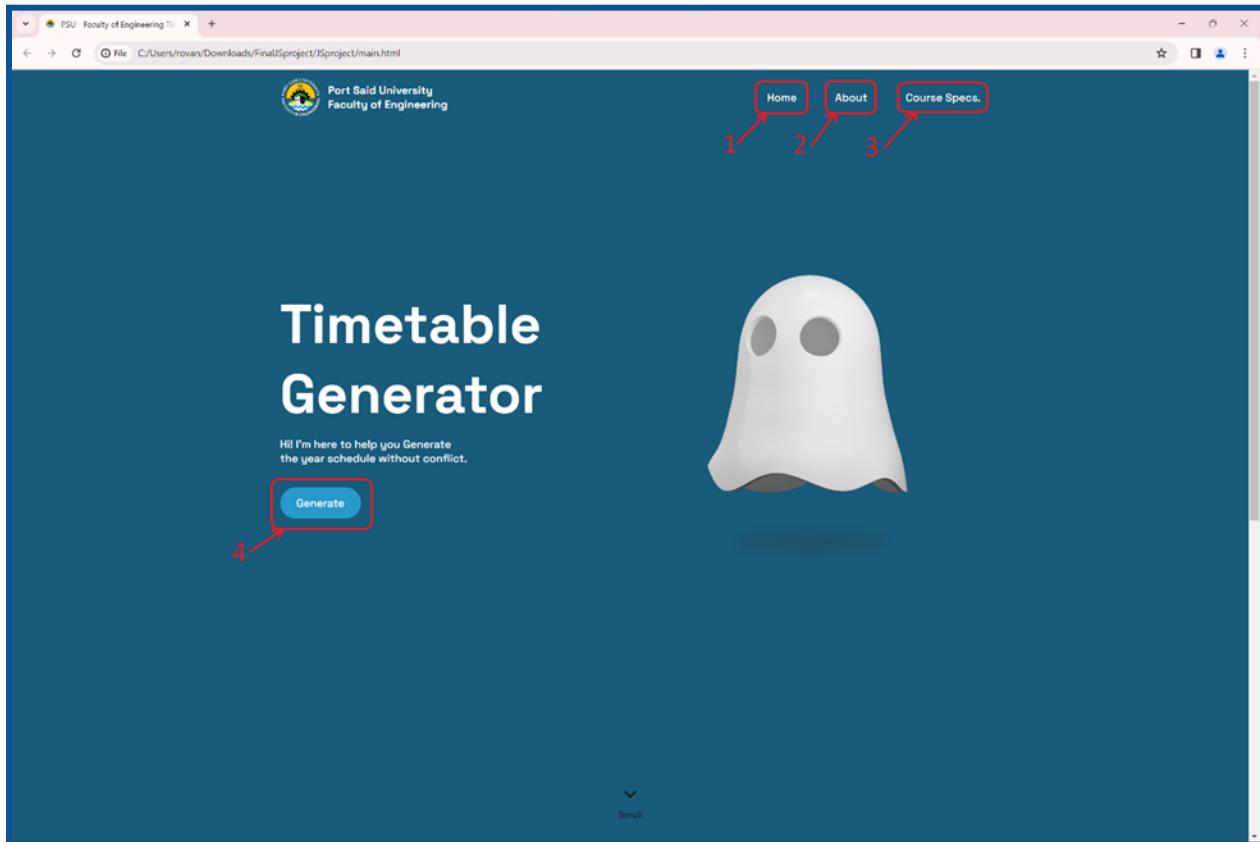


Figure (2), Landing Page.

1. “Home” Button opens a new tab with the official PSU Faculty of Engineering.
2. “About” Button opens a new tab with the About page of PSU Faculty of Engineering.
3. “Course Specs” Button opens a new tab with the official PSU Faculty of Engineering - Course Specs.
4. “Generate” Button opens a pop-up for you to fill as shown in Figure (3).

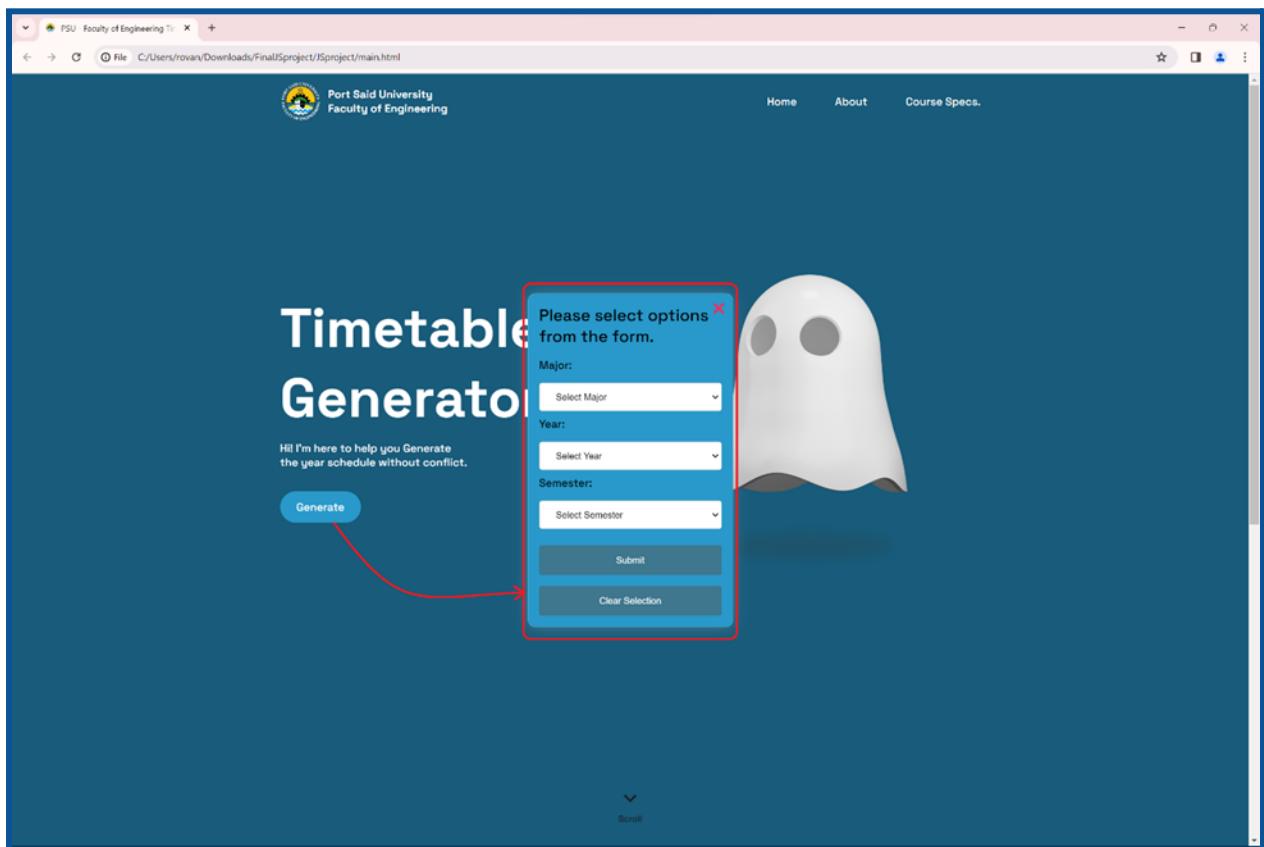


Figure (3). Selection Pop-up.

The generator prompts administrators to meticulously specify the major, year, and semester for which they intend to construct a timetable.

Upon completion of these selections, the "Generate" button becomes accessible, enabling the seamless creation of the desired timetable.



Timetable Generator

Hi! I'm here to help you Generate
the year schedule without conflict.

Generate

Please select options X from the form.

Major: 1

Select Major

- Select Major
- Electrical Power Engineering
- Computer and Control Engineering
- Electronics and Communication Engineering

Semester:

Select Semester

Submit

Clear Selection



Figure (4), Major Selection Pop-up.

The administrators begin by selecting their desired major from the drop-down menu, encompassing Electrical Power Engineering, Computer and Control Engineering, or Electronics and Communications Engineering.

A screenshot of a website for "Timetable Generator". The main page has a dark blue background with a white ghost graphic on the right. A central text area says "Timetable Generator" and "Hi! I'm here to help you Generate the year schedule without conflict." with a "Generate" button. A modal window titled "Please select options from the form." is open, asking for "Major" (set to "Electrical Power Engineering") and "Year". The "Year" dropdown menu is highlighted with a red border and contains the options "Select Year", "First", "Second", "Third", and "Fourth", with "Second" being the selected option. A red number "2" is placed next to the "Year" input field.

Please select options from the form.

Major:

Electrical Power Engineering

Year:

2

Select Year

First

Second

Third

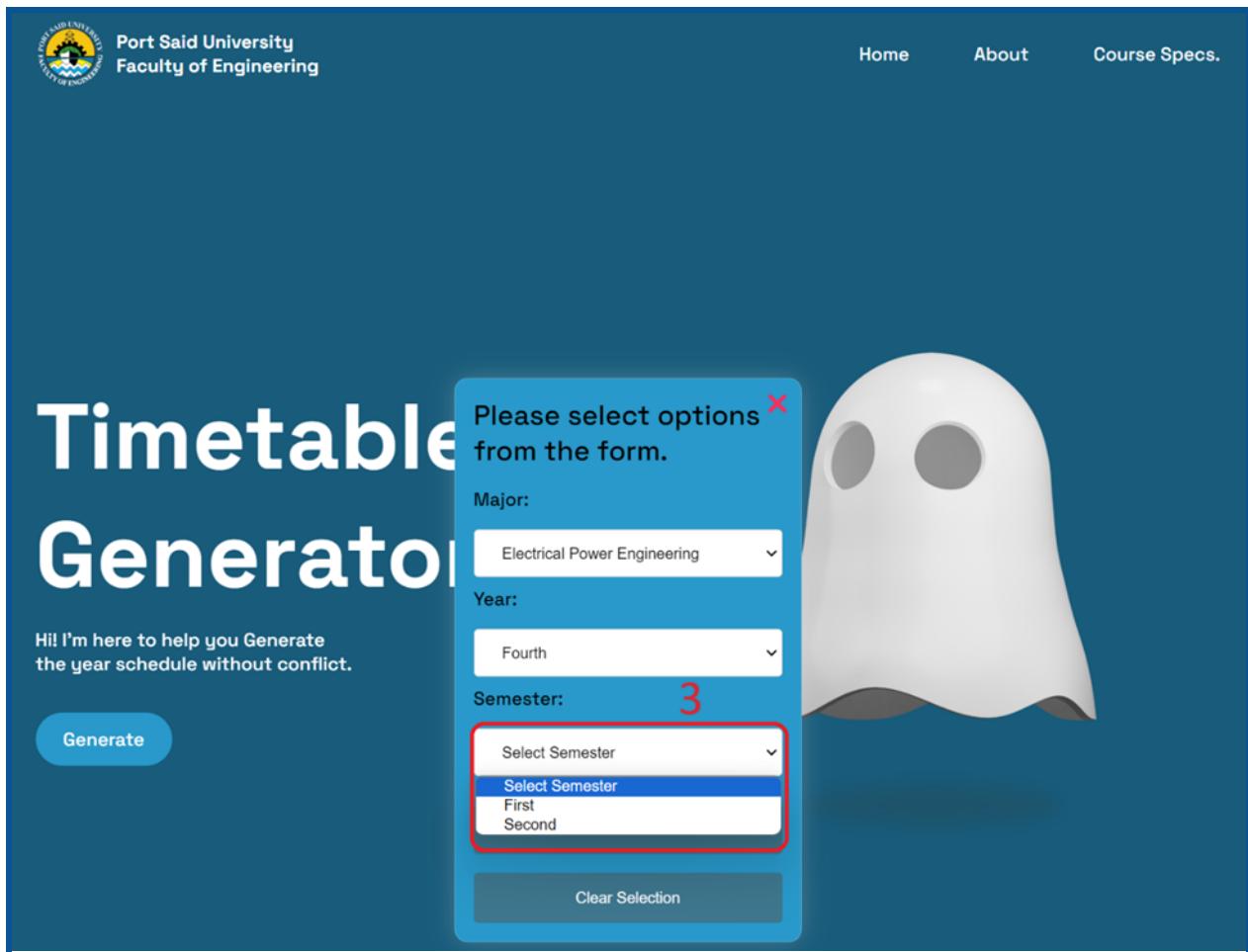
Fourth

Submit

Clear Selection

Figure (5), Year Selection Pop-up.

The second step involves administrators to select their desired academic year via the drop-down menu, with options ranging from first to fourth year.



The screenshot shows a web application for generating timetables. At the top, there's a header with the university's logo and name, and navigation links for Home, About, and Course Specs. Below the header, a large title "Timetable Generator" is displayed, followed by a sub-instruction: "Hi! I'm here to help you Generate the year schedule without conflict." A "Generate" button is visible. A modal window is open, displaying an error message: "Please select options from the form." It contains three dropdown menus: "Major" set to "Electrical Power Engineering", "Year" set to "Fourth", and "Semester" set to "3". A sub-menu for "Semester" is open, showing "Select Semester" at the top, followed by "First" and "Second", with "First" highlighted. A red box surrounds the "Select Semester" dropdown and its sub-options. A white ghost icon is partially visible on the right side of the page.

Figure (6), Semester Selection Pop-up.

Finally, administrators select their preferred semester, first or second, from the provided drop-down list.

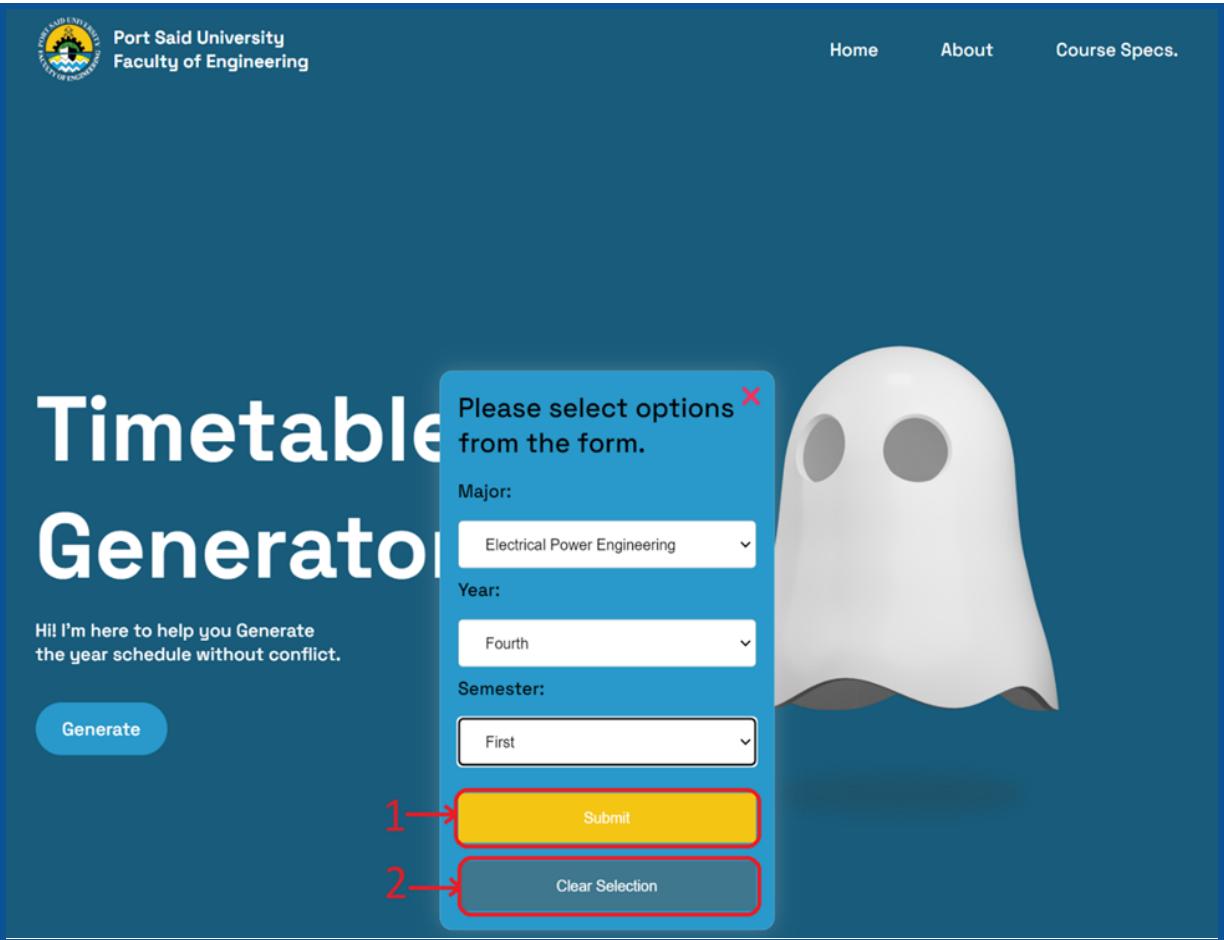
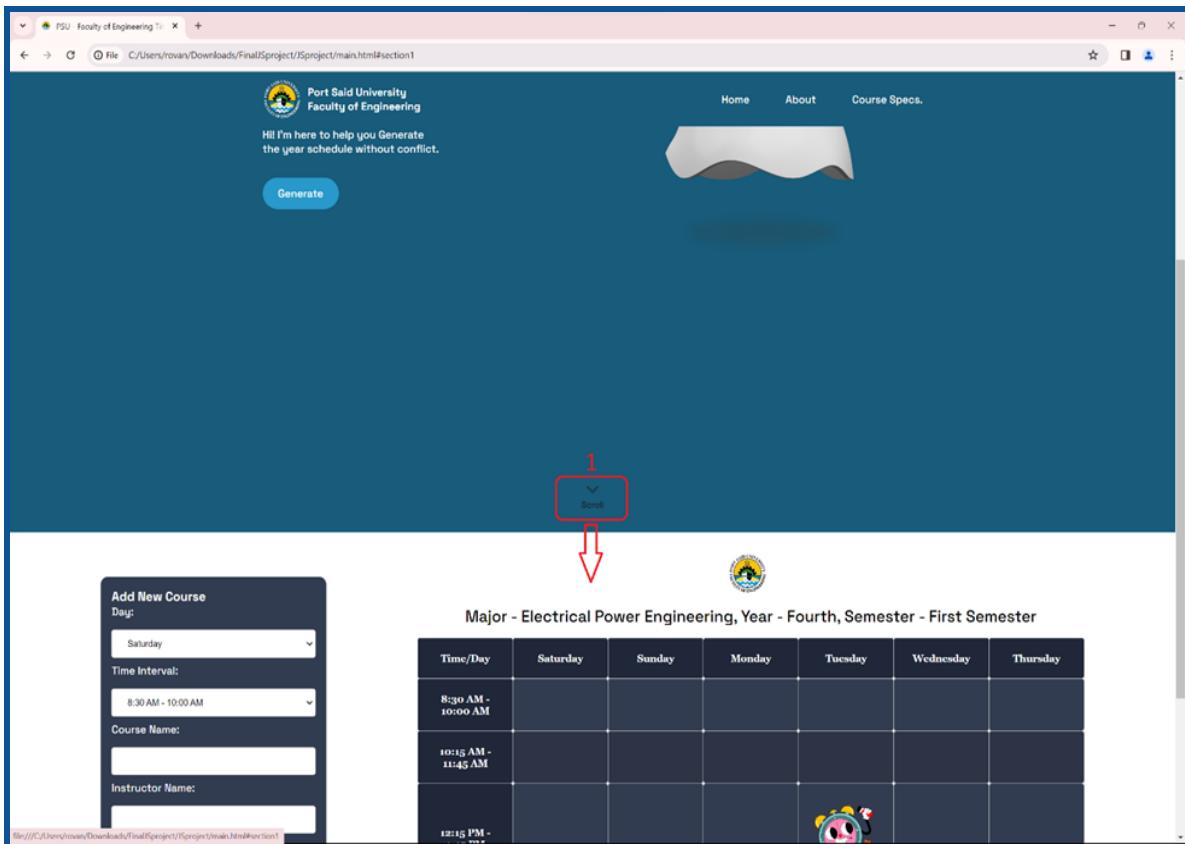


Figure (7), Submitting Selection Pop-up.

To initiate timetable creation based on your chosen specifications, simply click the "Submit" button.

Alternatively, if you wish to revise your selections, the "Clear Selection" button effectively resets the form, enabling you to start afresh.



The screenshot shows a web browser window for the "PSU Faculty of Engineering" website. At the top, there is a header with the university's logo and navigation links for "Home", "About", and "Course Specs.". Below the header, a main content area features a "Generate" button and a "Scroll" button with a red arrow pointing down to it. A red box highlights the "Scroll" button. The content area is titled "Major - Electrical Power Engineering, Year - Fourth, Semester - First Semester". It includes a table for course scheduling across days and time intervals. A small cartoon character is visible in the bottom right corner of the content area.

Figure (8), Scrolling Down.

Upon clicking the "Submit" button, the page dynamically expands, revealing additional content as visually illustrated in Figure (8).



Timetable Main Page

The screenshot shows a web-based timetable system for the Faculty of Engineering at Port Said University. At the top left is the university's logo and name. The top right features navigation links for Home, About, and Course Specs. Below the header is a large, empty blue area. In the center, there is a grid-based timetable for the "Major - Electrical Power Engineering, Year - Fourth, Semester - First Semester". The grid has days of the week (Saturday, Sunday, Monday, Tuesday, Wednesday, Thursday) as columns and time intervals (8:30 AM - 10:00 AM, 10:15 AM - 11:45 AM, 12:15 PM - 1:45 PM, 02:00 PM - 3:30 PM, 03:30 PM - 5:00 PM) as rows. A small icon of a person with a clock is placed in one of the grid cells. On the left side, there is a form titled "Add New Course" with fields for Day (dropdown: Saturday), Time Interval (dropdown: 8:30 AM - 10:00 AM), Course Name (text input), Instructor Name (text input), Course Type (dropdown: Lecture), and Room Number (text input). A red box labeled "1" surrounds this form. To the right of the grid, a red box labeled "2" highlights the header information. At the bottom of the page, two buttons are shown: "Print Timetable" and "Export Timetable", both enclosed in a red box labeled "3" and "4" respectively. The footer of the page reads "POWERED BY EL NHRR GROUP".

Figure (9), Generating Timetable Page.

This section presents four essential elements for generating your timetable:

1. **Course Addition Zone:** Seamlessly incorporate new courses into your timetable using this intuitive tool.
2. **Timetable Display:** Visualize your dynamically generated timetable, featuring a header that concisely summarizes your selected specifications.
3. **Print Functionality:** Effortlessly produce a physical copy of your completed timetable with a simple click of the "Print" button.
4. **Export Capabilities:** Preserve your timetable in a digital format (Microsoft Excel) for seamless sharing and offline access via the "Export" button.

Add New Course

Day: **1**

Time Interval: **2**

Course Name: **3**

Instructor Name: **4**

Course Type: **5**

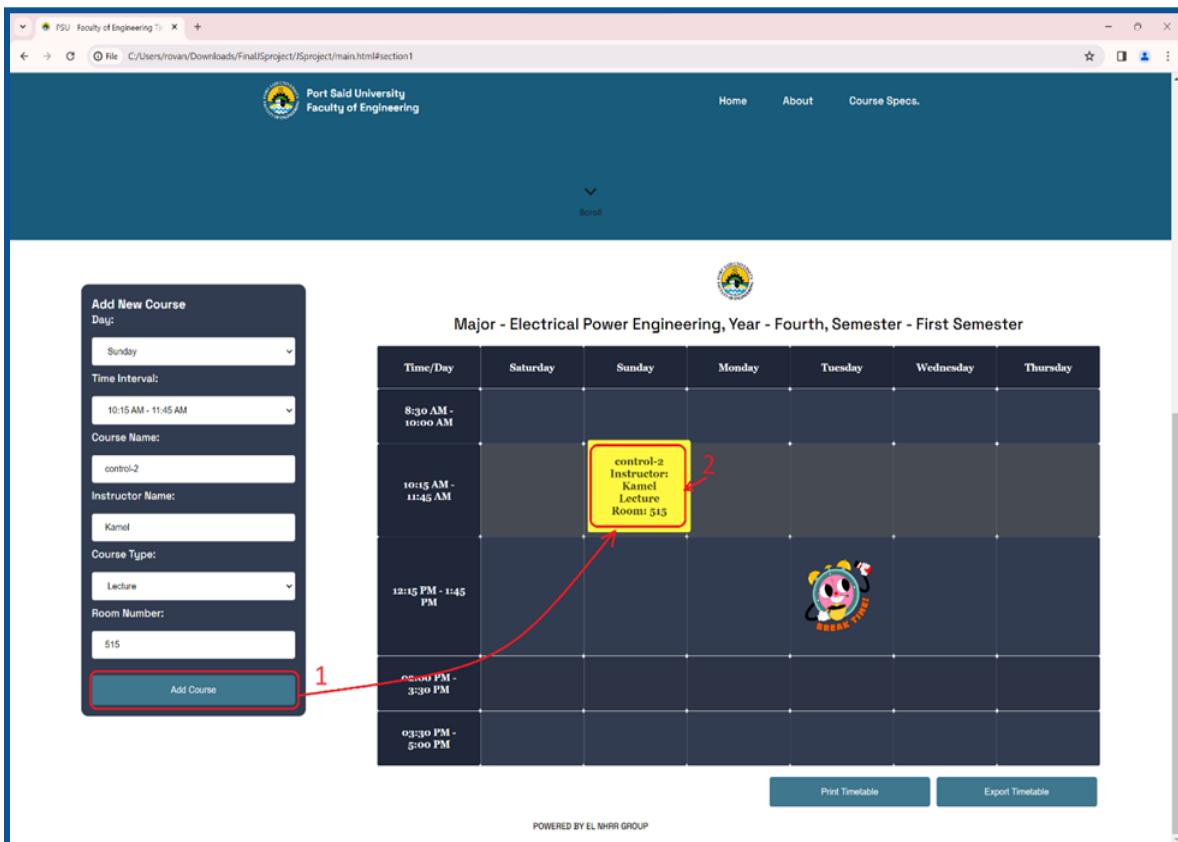
Room Number: **6**

Add Course **7**

Figure (10), Add New Class Selection Part.

To seamlessly introduce a new course into your timetable, kindly adhere to the following steps:

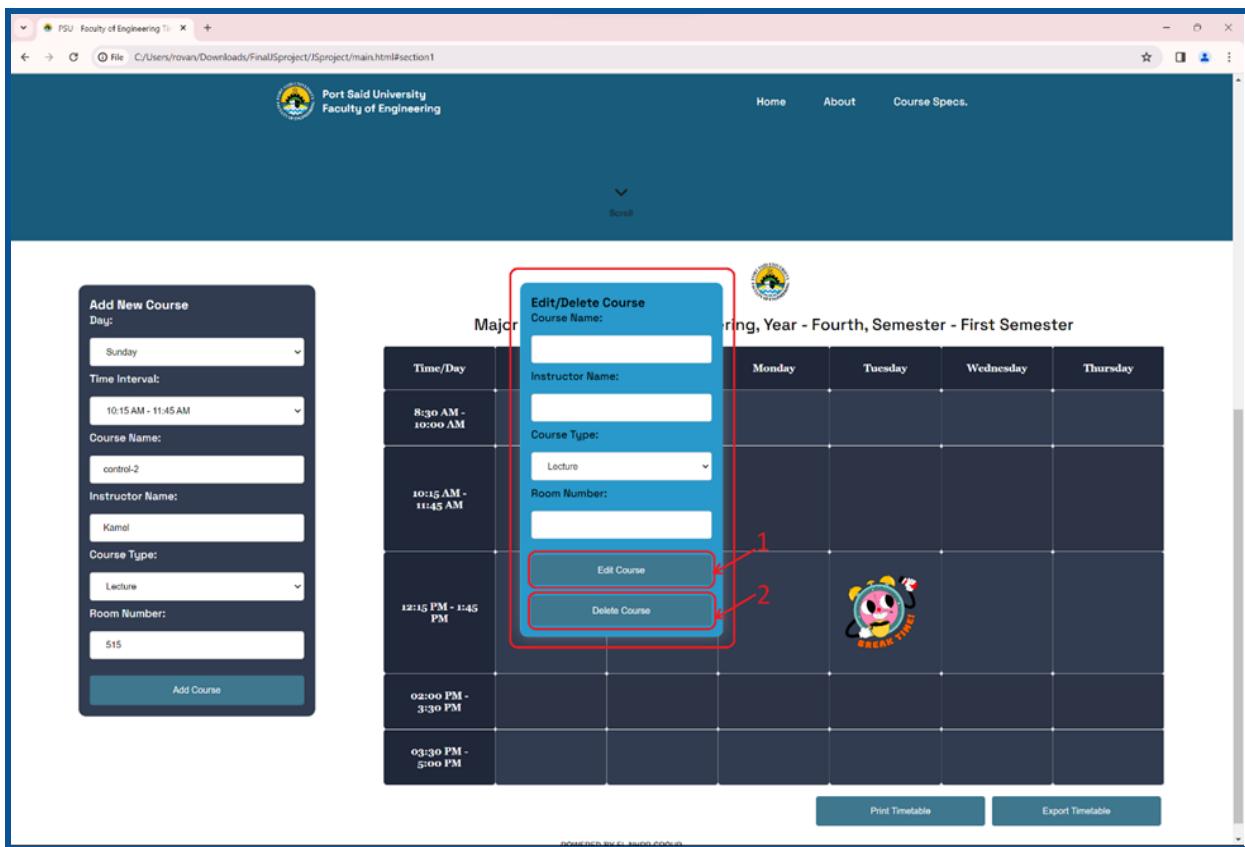
1. **Specify Day:** Meticulously select the weekday for which the course is scheduled.
2. **Indicate Time Interval:** Precisely pinpoint the time slot dedicated to this course.
3. **Enter Course Name:** Accurately input the official course title.
4. **Provide Instructor Name:** Indicate the designated instructor for this course.
5. **Classify Course Type:** Clearly distinguish whether this course is a lecture or a practical lab session.
6. **Specify Room Number:** Indicate the designated physical location for this course.
7. **Finalize Course Addition:** Upon completion of these details, click the "Add Course" button to successfully integrate the course into your timetable.



The screenshot shows a web application interface for managing university timetables. On the left, a modal window titled "Add New Course" is open, containing fields for "Day" (Sunday), "Time Interval" (10:15 AM - 11:45 AM), "Course Name" (control-2), "Instructor Name" (Kamel), "Course Type" (Lecture), and "Room Number" (515). A red box highlights the "Add Course" button. On the right, a weekly timetable grid for "Major - Electrical Power Engineering, Year - Fourth, Semester - First Semester" is displayed. The grid shows time slots from 8:30 AM to 5:00 PM across Saturday, Sunday, Monday, Tuesday, Wednesday, and Thursday. A specific slot on Sunday from 10:15 AM to 11:45 AM is highlighted with a yellow box and contains the text "control-2 Instructor: Kamel Lecture Room: 515". Red arrows point from the "Add Course" button in the modal to this highlighted slot in the timetable.

Figure (11), Submitting a New Class.

Following the successful addition of a new course, it will immediately manifest within your timetable, elegantly illustrated in Figure (11).

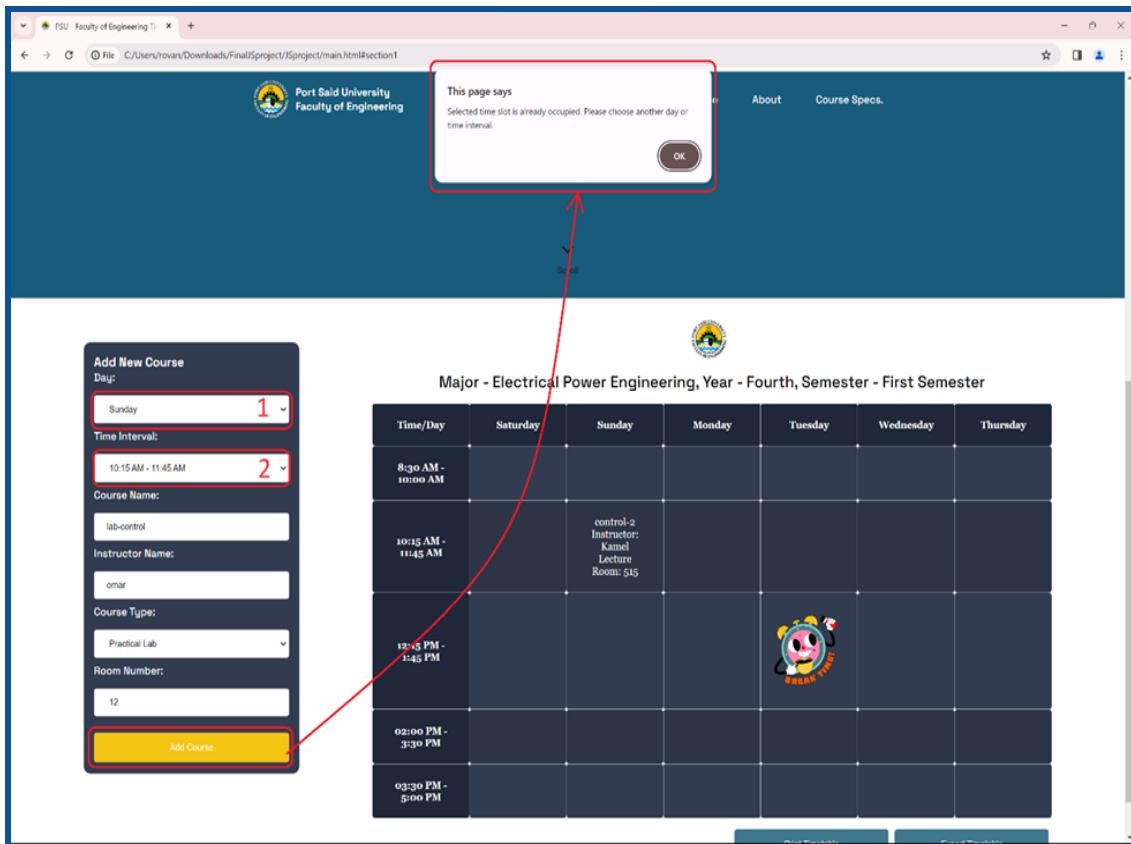


The screenshot shows a web-based course scheduling system. On the left, there is a sidebar titled "Add New Course" with fields for Day (Sunday), Time Interval (10:15 AM - 11:45 AM), Course Name (control-2), Instructor Name (Kamel), Course Type (Lecture), and Room Number (515). A blue "Add Course" button is at the bottom. The main area displays a weekly timetable grid from Monday to Thursday. A specific time slot on Sunday from 10:15 AM to 11:45 AM is highlighted with a red border and contains an "Edit/Delete Course" pop-up window. The pop-up has fields for Course Name (control-2), Instructor Name (Kamel), Course Type (Lecture), and Room Number (515). It also features two buttons: "Edit Course" and "Delete Course", both outlined with red boxes and numbered 1 and 2 respectively. A small cartoon character icon with the text "BREAK TIME" is located in the bottom right corner of the timetable grid.

Figure (12), Edit/ Delete Course Pop-up.

To modify course information within a specific time slot, kindly adhere to these steps:

1. **Initiate Edit Mode:** Click directly on the desired time slot to activate editing capabilities.
2. **Review and Revise:** Meticulously examine the displayed course details and make any necessary adjustments to the course name, instructor name, course type, or room number.
3. **Confirm Edits:** Once satisfied with your refinements, click the "Edit" button to finalize the changes.
4. **Delete Course:** If you deem it necessary to remove the course entirely, simply click the "Delete" button to erase its data from the timeslot.



The screenshot shows a web-based course scheduling system. On the left, a form titled "Add New Course" is displayed with fields for Day (Sunday), Time Interval (10:15 AM - 11:45 AM), Course Name (lab-control), Instructor Name (omar), Course Type (Practical Lab), and Room Number (12). A yellow "Add Course" button is at the bottom. On the right, a grid titled "Major - Electrical Power Engineering, Year - Fourth, Semester - First Semester" shows time slots from 8:30 AM to 03:30 PM across days of the week. A specific slot on Sunday from 10:15 AM to 11:45 AM is highlighted with a red border and contains the text "control-2 Instructor: Kamel Lecture Room: 515". A red arrow points from the "Time Interval" field in the form to this highlighted slot. A red box highlights the entire "Time Interval" field in the form. A red callout box with a black border and white text "This page says Selected time slot is already occupied. Please choose another day or time interval." has an "OK" button. Another red arrow points from the "OK" button to the "Time Interval" field in the form.

Figure (13), Already Occupied TimeSlot.

- What if you choose an occupied time interval?

To safeguard against scheduling conflicts, the system vigilantly monitors for attempts to assign multiple courses to the same day and time interval.

Should such a scenario arise, a clear and informative alert message will gracefully appear on your screen, as visually depicted in Figure (13), effectively guiding you towards a conflict-free timetable.

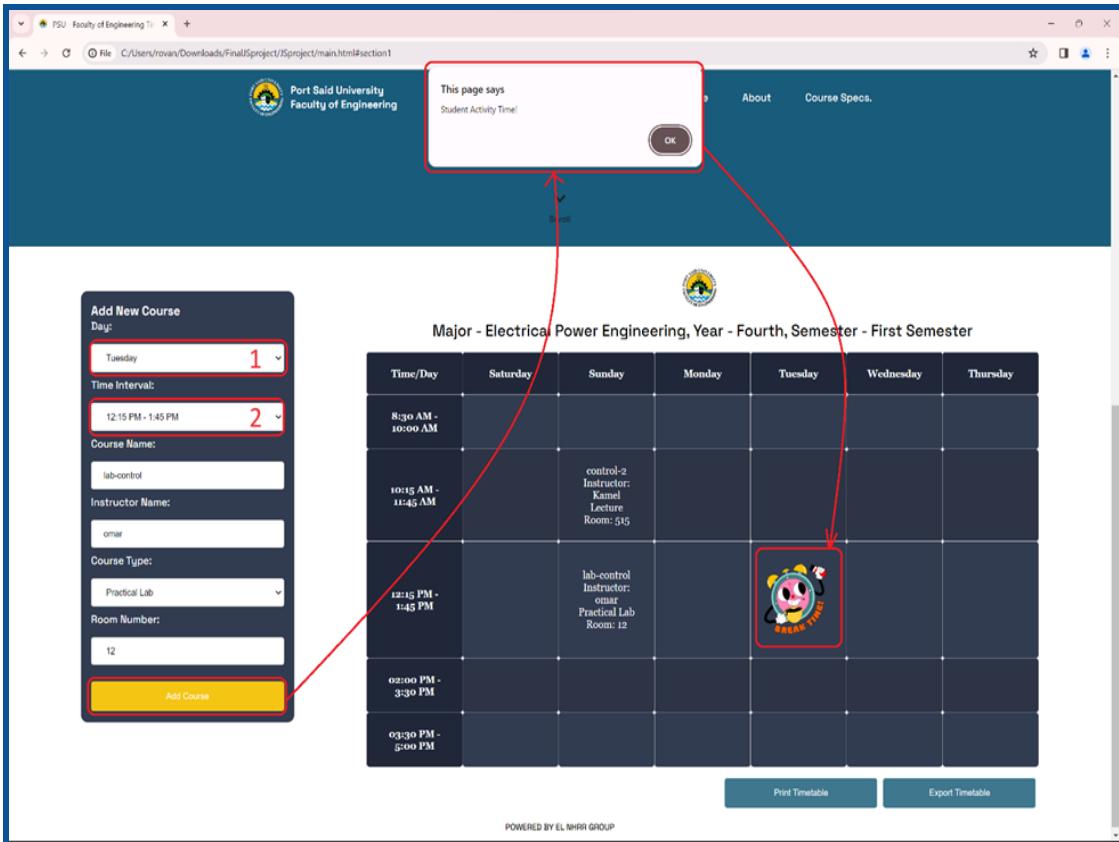
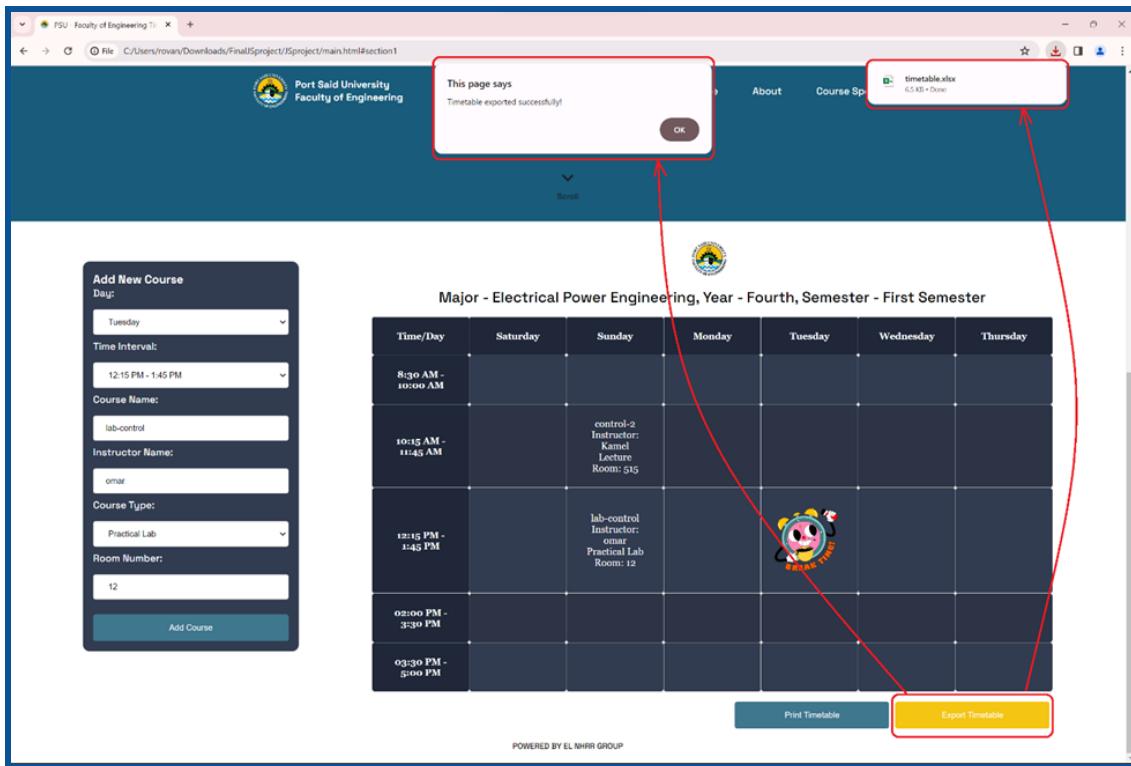


Figure (14), Choosing Student Activity Time.

- What if you choose the time interval of student activity time?

To ensure the preservation of designated student activity time, the system meticulously prohibits course scheduling during the specified interval of Tuesday, 12:15 PM to 1:45 PM.

Should you inadvertently attempt to assign a course within this timeframe, a helpful alert message will promptly appear on your screen, as visually illustrated in Figure (14), preventing any conflict and ensuring the integrity of student activity time.



The screenshot shows a web browser window for 'PSU - Faculty of Engineering'. A modal dialog box in the center says 'This page says' followed by 'Timetable exported successfully!' with an 'OK' button. In the top right corner, there is a download notification for 'timetable.xlsx' (65 KB). On the left, there's a form titled 'Add New Course' with fields for Day (Tuesday), Time Interval (12:15 PM - 1:45 PM), Course Name (lab-control), Instructor Name (omar), Course Type (Practical Lab), and Room Number (12). On the right, a weekly timetable grid for 'Major - Electrical Power Engineering, Year - Fourth, Semester - First Semester' is displayed. The grid shows various slots with course details like 'control-2' and 'lab-control'. At the bottom right of the grid are 'Print Timetable' and 'Export Timetable' buttons, with 'Export Timetable' highlighted with a red box.

Figure (15), Exporting your Timetable.

To seamlessly transfer your meticulously crafted timetable into a universally accessible format, simply click the "Export Timetable" button, as elegantly depicted in Figure (15).

This action will promptly initiate the creation and download of a comprehensive Excel (.xlsx) file, preserving your timetable for offline viewing, editing, and sharing at your convenience.

