

Following steps should be followed during slot booking:

1. Go to iitg.vlab.co.in .Following window will appear



Go to **Electronics and Communications** under the heading Virtual Labs at IIT GUWAHATI and select it.

2. Once you are through it the following window will appear.



Under Systems Communication and Control Laboratory, go to any experiment for eg: Amplitude Modulation and Demodulation (Real time experiment) and select it.

3. Once you are through it the following window will appear

The screenshot shows a web browser window displaying the Sakshat Virtual Labs interface. The browser's address bar shows the URL: `litg.vlab.co.in/index.php?sub=59&brch=163&sim=259&cnt=358`. The website has a blue header with the Sakshat Virtual Labs logo and a navigation menu including Home, Download, Slot Booking, Feedback, Contact us, and Login. A search bar is also present. Below the header, a breadcrumb trail reads: "you are here->home->electronics & communications->systems, communication and control laboratory->amplitude modulation and demodulation (real time experiment)". The main heading is "Amplitude Modulation and Demodulation (Real time experiment)". A row of icons provides navigation: Introduction, Theory, Set Up, Procedure, Experiment, Quiz, Webcam, and Feedback. The "Experiment" tab is highlighted. The content area contains the following text:

In amplitude modulation (AM), the message signal is impressed on the amplitude of the carrier signal. This results in a signal whose amplitude is a function of the message signal.

Forms of AM: AM signals may be of various types such as

1. Conventional double sideband AM (DSB-AM)
2. Double sideband suppressed carrier AM (DSBSC-AM)
3. Single sideband suppressed carrier AM (SSBSC-AM)
4. Vestigial sideband AM (VSBSC-AM)

These different types of amplitude modulation schemes are used for different applications. For example, conventional double sideband AM is used in radio broadcast, single sideband suppressed carrier AM is used in analog telephony and vestigial sideband AM is used in TV broadcast.

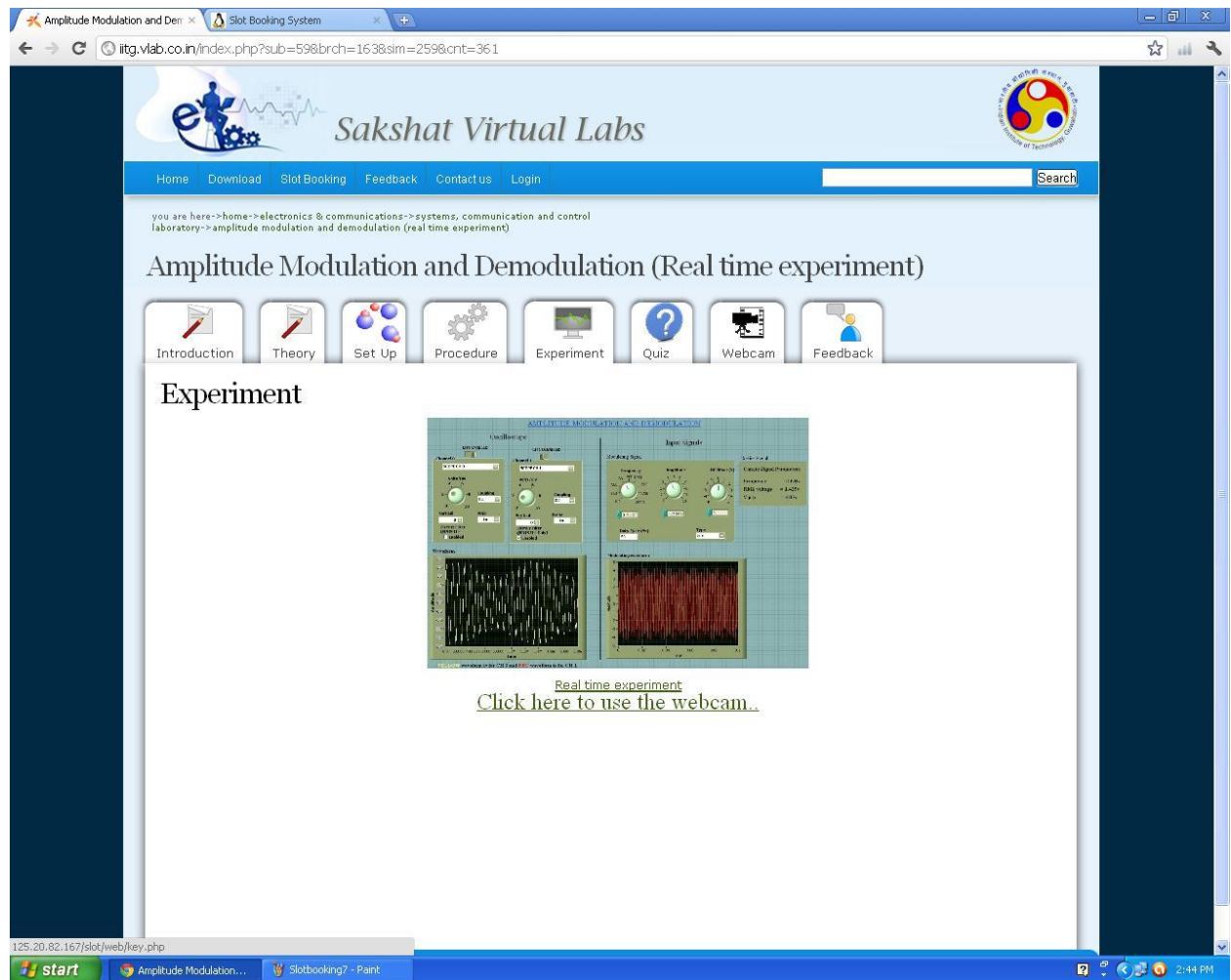
The diagram shows three waveforms: a black "Signal" (message wave), a red "AM" (amplitude-modulated wave), and a blue "FM" (frequency-modulated wave).

In this experiment we shall consider double sideband AM. We shall consider both the generation as well as demodulation of DSB-AM.

The Windows taskbar at the bottom shows the Start button and open applications: Amplitude Modulation..., S - Paint, Document1 - Microsof..., and My Pictures. The system clock shows 3:04 PM.

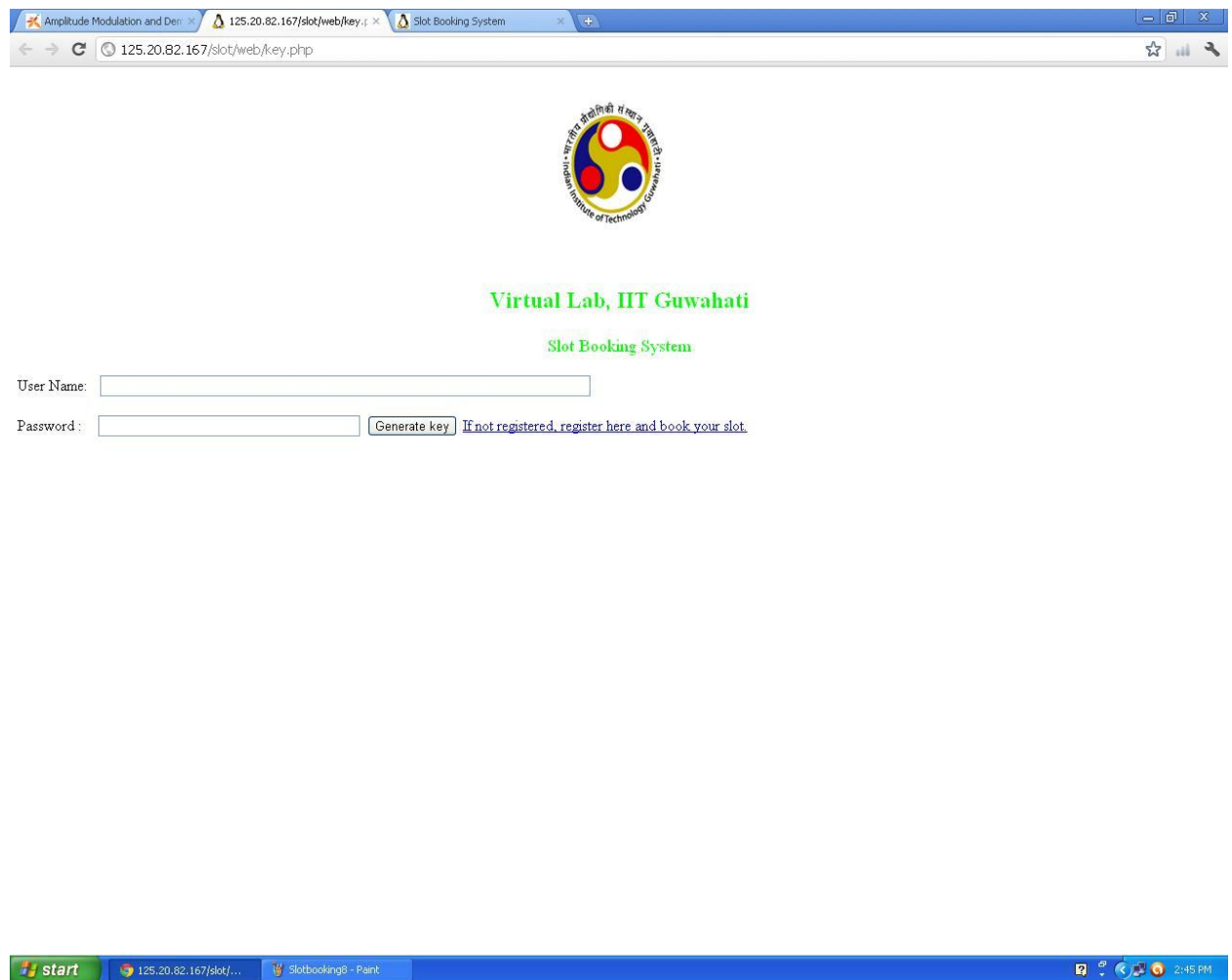
Click on the “experiment” tab to perform the experiment.

4. Once you are through it the following window will appear.



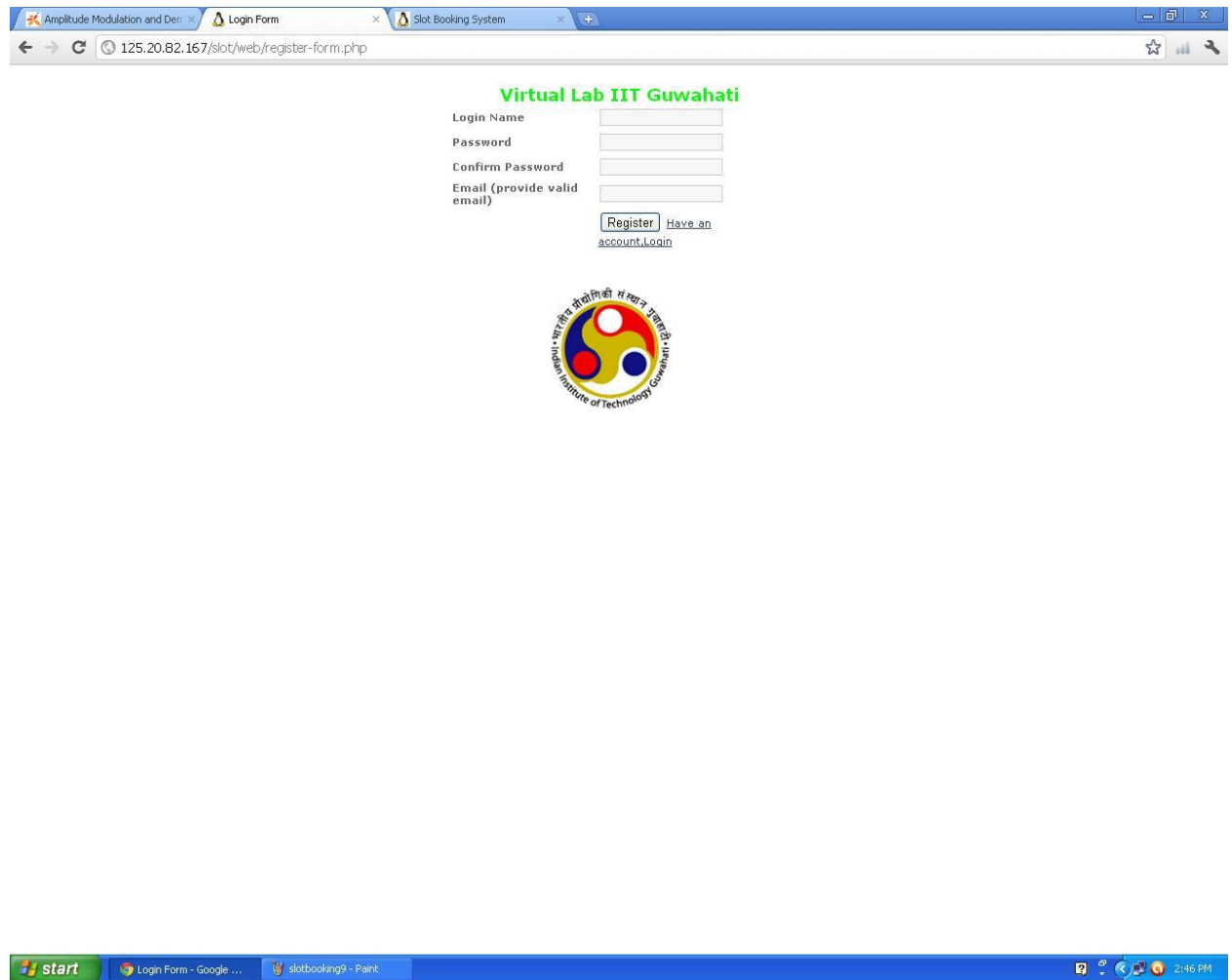
Click on the heading “real time experiment”

5. Once you are through it the following window will appear.



If you are a new user go to the link [“If not registered register here and book your slot”](#)

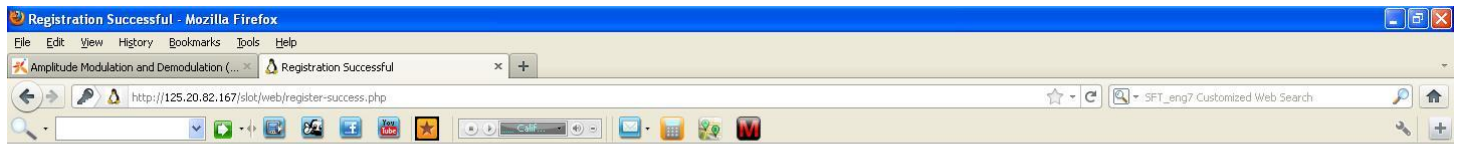
6. Once you are through it the following window will appear.



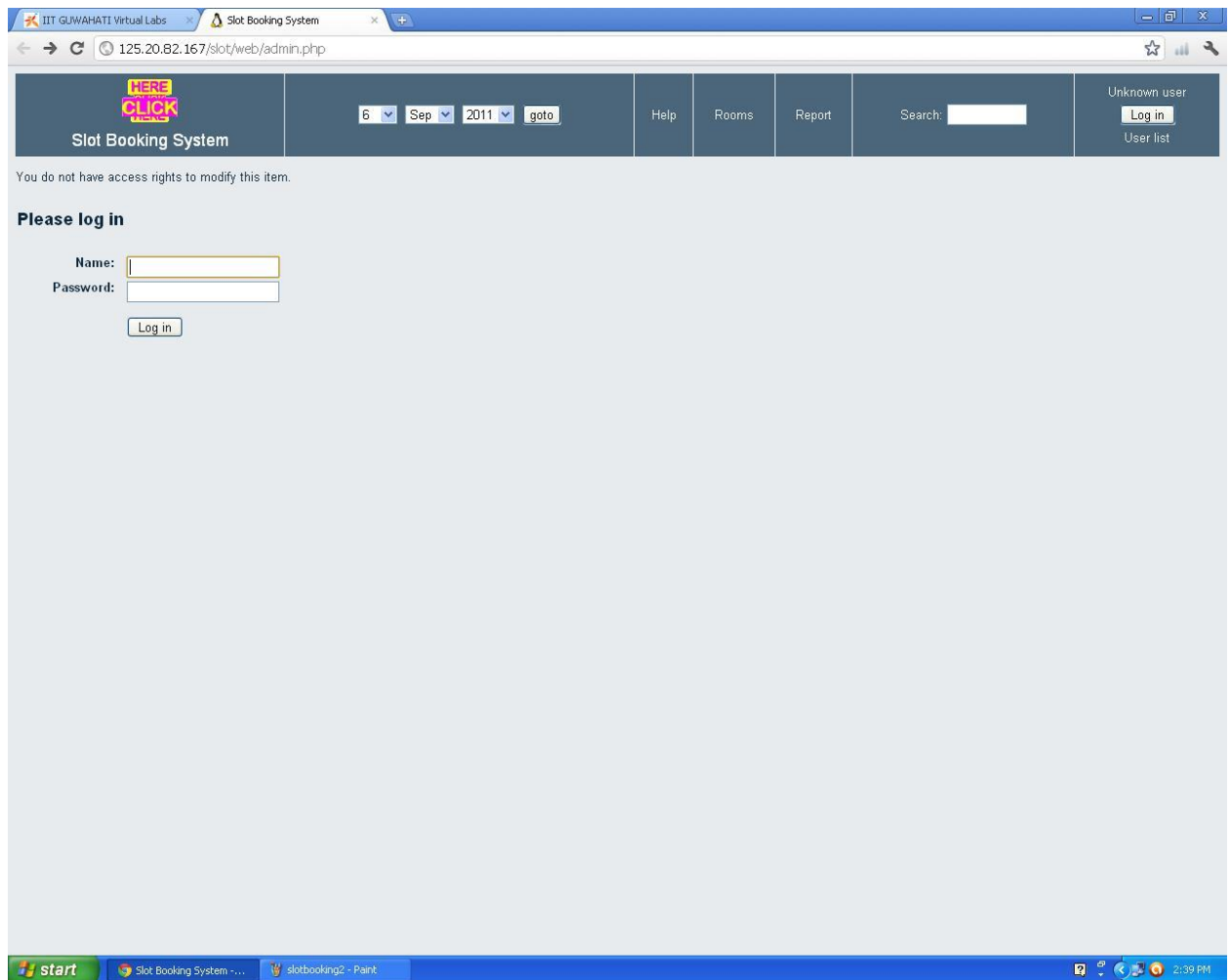
The screenshot shows a web browser window with three tabs: "Amplitude Modulation and Den...", "Login Form", and "Slot Booking System". The address bar displays "125.20.82.167/slot/web/register-form.php". The page content is titled "Virtual Lab IIT Guwahati" in green. Below the title is a registration form with the following fields: "Login Name", "Password", "Confirm Password", and "Email (provide valid email)". There are "Register" and "Have an account.Login" buttons. Below the form is the IIT Guwahati logo, which is a circular emblem with a stylized 'S' shape in the center, surrounded by the text "Indian Institute of Technology Guwahati" and "অসমীয়া ইঞ্জিনিয়ারিং বিশ্ববিদ্যালয় গুৱাহাটী". The Windows taskbar at the bottom shows the "start" button, open applications "Login Form - Google..." and "slotbooking9 - Paint", and the system clock "2:46 PM".

Register here.

7. Once you are successfully registered this window will appear:



Select the click here link which will lead you to this window shown below.



Select the “Slot Booking System” on the top left corner of this window.

8. Once you are through it the following window will appear.

Slot Booking System

5 Sep 2011 goto

Help Rooms Report Search: Log in User list

August 2011 September 2011 October 2011

Monday 05 September 2011

<< Go To Day Before Go To Today Go To Day After >>

Time	AM(1)	Amplitude Modulation(1)	Antenna(coming soon)	BPSK(1)	BPSK Simulation(1)	Fading(coming soon)	FM(1)	FPGA(coming soon)	I Q Modulators(1)	Inverted Pendulum(1)	Levitration(coming soon)	LNA(coming soon)	MIMO(coming soon)	MSK(coming soon)	QPSK(coming soon)	ROTPENT(1)
07:00																
08:00																
09:00																
10:00																
11:00																
12:00																
13:00																
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15:00																
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18:00																

<< Go To Day Before Go To Today Go To Day After >>

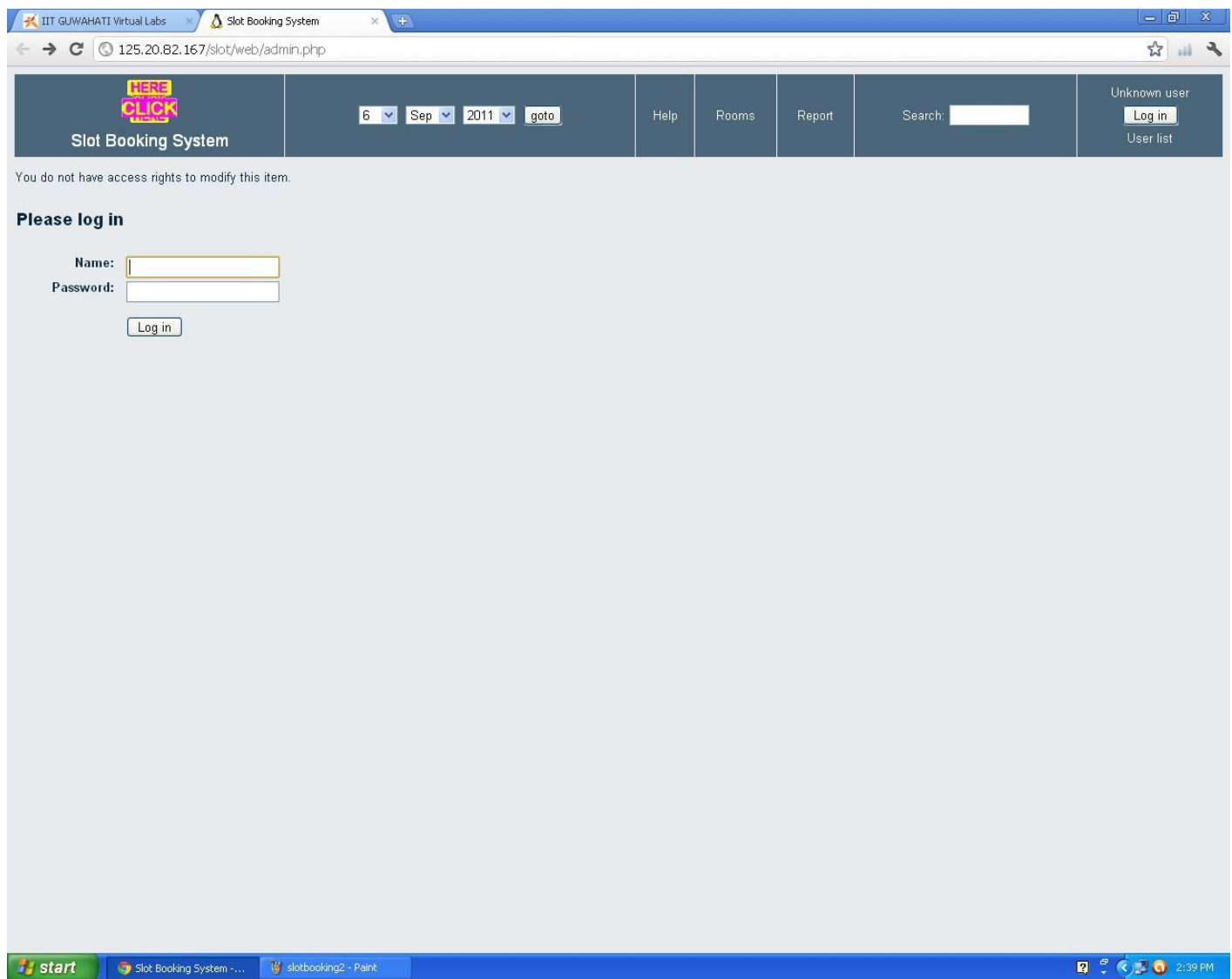
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View Day: Aug 30 | Aug 31 | Sep 01 | Sep 02 | Sep 03 | Sep 04 | **Sep 05** | Sep 06 | Sep 07 | Sep 08 | Sep 09 | Sep 10 | Sep 11 | Sep 12

View Week: Aug 07 | Aug 14 | Aug 21 | Aug 28 | **Sep 04** | Sep 11 | Sep 18 | Sep 25 | Oct 02

View Month: Jul 2011 | Aug 2011 | **Sep 2011** | Oct 2011 | Nov 2011 | Dec 2011 | Jan 2012 | Feb 2012 | Mar 2012

Here in this window the 1st row indicates the list of experiments and the 1st column indicates the time slot in which you can perform the experiment. Go to any of the experiment and the time you want to perform that experiment. Suppose you want to perform AM (1) i.e AM real time experiment at time 10:00; then select that slot as shown. Once you are through it the window shown below will appear.



Now log in giving the name and password by which you have registered in **step 6**.

9. Once you are through it the following window will appear.

The screenshot shows a web browser window with the URL `125.20.82.167/slot/web/edit_entry.php?area=1&room=23&hour=10&minute=00&year=2011&month=9&day=7&returnurl=https%3A%2F%2F125.20.32.167%2Fslot%2Fweb%2F`. The page title is "Slot Booking System". The header includes a navigation bar with links: "CLICK HERE CLICK", "Help", "Rooms", "Report", and a search bar. The main content area is titled "Add Entry" and contains the following fields:

- Brief Description:** A text input field.
- Full Description:** A large text area with a placeholder text: "(Number of people, Internal/external etc)".
- Date:** A date picker showing "7 Sep 2011".
- Time:** A time picker showing "10:00".
- Rooms:** A dropdown menu with the following options: "AM", "Amplitude Modulation", "Antenna (common room)", "BPSK", and "BPSK Simulator". A note next to it says "Use Control-Click to select more than one room".

Below the form, there is a red text instruction: "After saving go to the respective experiment, for which you booked the slot and submit your user name and password there". A "Save" button is located below this instruction.

At the bottom of the page, there is a navigation bar with the following links:

- View Day:** Sep 01 | Sep 02 | Sep 03 | Sep 04 | Sep 05 | Sep 06 | **Sep 07** | Sep 08 | Sep 09 | Sep 10 | Sep 11 | Sep 12 | Sep 13 | Sep 14
- View Week:** Aug 07 | Aug 14 | Aug 21 | Aug 28 | **Sep 04** | Sep 11 | Sep 18 | Sep 25 | Oct 02
- View Month:** Jul 2011 | Aug 2011 | **Sep 2011** | Oct 2011 | Nov 2011 | Dec 2011 | Jan 2012 | Feb 2012 | Mar 2012

In this window you will be asked to give “Brief Description” and “Full Description”. Give the brief description supposes “am” and full description “am10”.Now save your descriptions selecting the “save” in this window.

10. Once you are done with it the following window will pop up indicating that your slot has been booked for that time.

The screenshot shows the Slot Booking System web interface. At the top, there's a navigation bar with a logo, a date selector (7 Sep 2011), and links for Help, Rooms, Report, and Search. Below this is a calendar view for August, September, and October 2011. The date 07 September 2011 is highlighted. Below the calendar, there's a table for booking slots for Wednesday, 07 September 2011. The table has columns for Time, AM, and various experiments. The 10:00 slot is booked by 'sun'.

Time	AM	Antenna (coming soon)	PPSK (coming soon)	PPSK Simulation (coming soon)	Farling (coming soon)	FM (coming soon)	PAGA (coming soon)	I/Q Modulators (coming soon)	Inverted Pendulum (coming soon)	Evolution (coming soon)	INA (coming soon)	MIMO (coming soon)	MSK (coming soon)	QPSK (coming soon)	ROTATION (coming soon)
07:00															
08:00															
09:00															
10:00	sun														
11:00															
12:00															
13:00															
14:00															
15:00															
16:00															
17:00															
18:00															

View Day: Sep 01 | Sep 02 | Sep 03 | Sep 04 | Sep 05 | Sep 06 | **Sep 07** | Sep 08 | Sep 09 | Sep 10 | Sep 11 | Sep 12 | Sep 13 | Sep 14
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View Month: Jul 2011 | Aug 2011 | **Sep 2011** | Oct 2011 | Nov 2011 | Dec 2011 | Jan 2012 | Feb 2012 | Mar 2012

Then **go to step 5**, and type your username and password with which you have registered. Then click on the “Generate key” link and the following window will appear.

Browser tabs: Welcome to Virtual Labs, Amplitude Modulation and Demodulation, 125.20.82.167/slot/web/ko.php, Slot Booking System

Address bar: 125.20.82.167/slot/web/ko.php

Key:	1314682200	Name:	arn
Key:	1314693000	Name:	arn mod
Key:	1314689400	Name:	aseem
Key:	1315283400	Name:	arn10
Key:	1315290600	Name:	arn12
Key:	1315369800	Name:	arn



Virtual Lab, IIT Guwahati

Slot Booking System

Paste key here :

Paste name here :

Windows taskbar: start, Following steps should..., 125.20.82.167/slot/..., 3 - Paint, 10:29 AM

Select the key against the name you have entered for “Brief Description” in step 9. and paste it on the space provided for “Paste key here”. Also paste the name of the experiment in the space provided for “Paste name here”. Then click on the link submit.

11. The following window will appear:



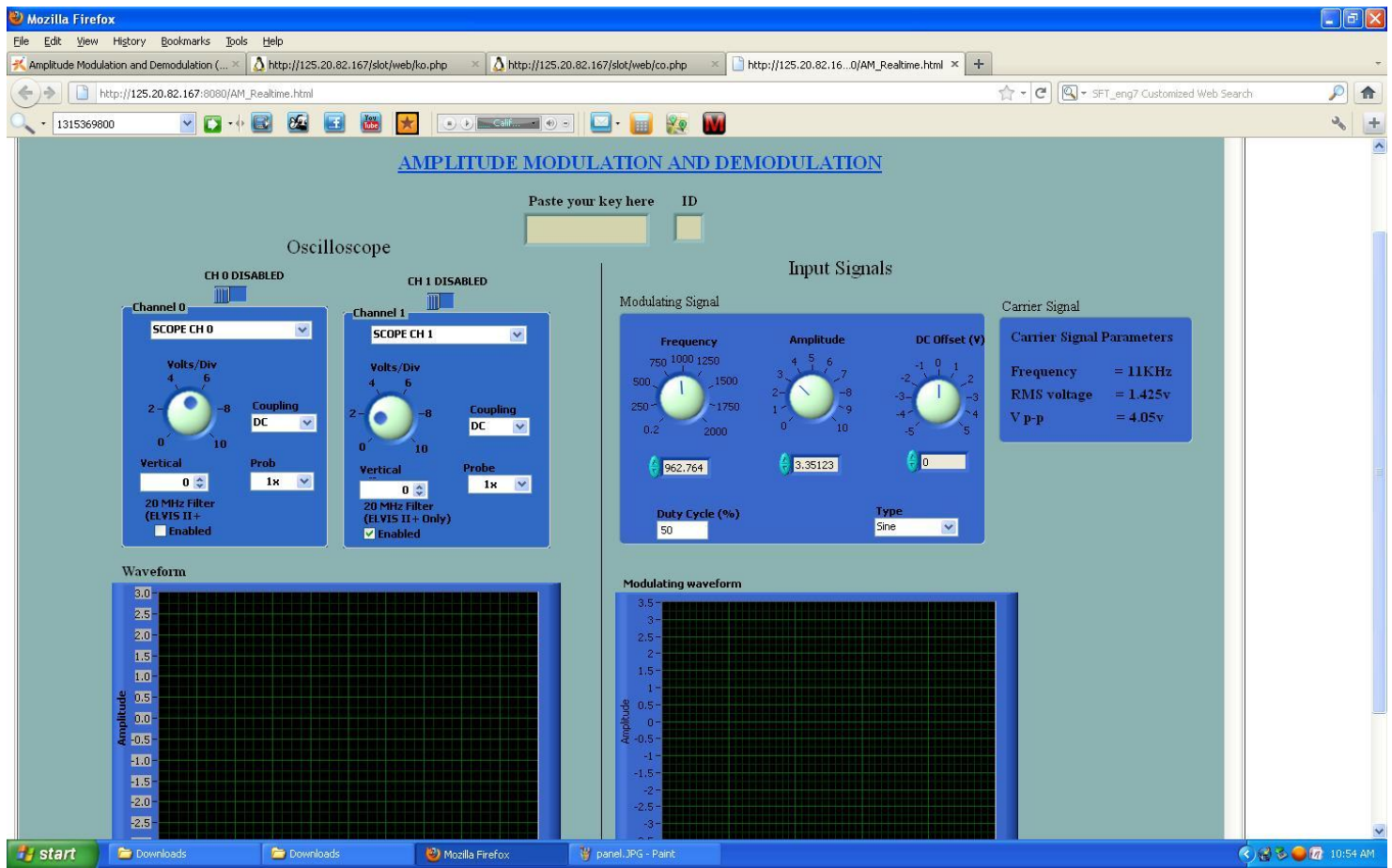
Note the ID and the Key, and select the link “Click here to perform the experiment”. Once you are done with it the following window will appear in the screen.



Downloading panel.
2.97% of 184111 bytes.



12. Once the panel is downloaded the front panel will appear on the screen as shown below.



Paste the key on the space provided "Paste your key here" and the ID on the space provided "ID". Once this is done run the experiment using "ctrl+R". You will see the required waveforms.