

This Gurupadigam creator application helps with easy automatic formatting of the Gurupadigam PPT. This application has the following features:

1. Automatic background change.
2. Automatic mentor-mentee photo placement and old photo replacement.
3. Automatic table formatting.
4. Generation of Gurupadigam for parents in PDF form.
5. Generation of Gurupadigam for students in PPT form (3 slides).
6. Automatic sending of parents' Gurupadhigam (in PDF) through WhatsApp.
7. Automatic sending of students' Gurupadhigam (in PPT) through WhatsApp.

This application requires the following:

1. Python 3.10
2. Chrome driver

This application works well on Windows 10 and later versions. Some features may not work in other operating systems.

Install “**Python IDLE**” from the webpage: <https://www.python.org/downloads/>. After installing python, install the following libraries:

1. python-pptx
2. pywin32
3. selenium
4. pyautogui
5. comtypes

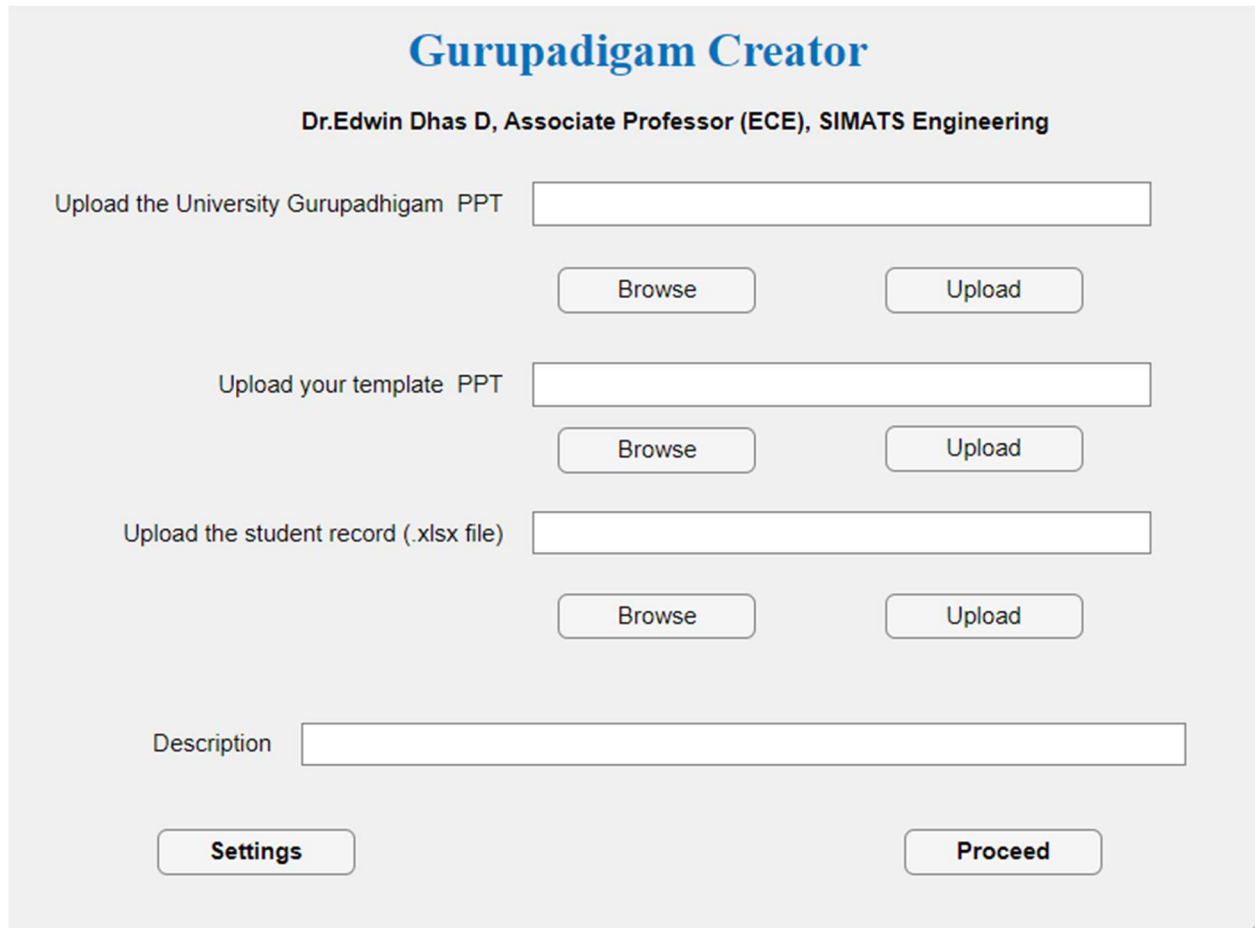
Download “**chrome driver**” that matches your chrome browser. To find the version of your chrome open Google chrome. Navigate to : >>> Help >>> About Google Chrome (Example: 138.0.7204.158). For downloading Chrome driver, go to Chrome driver links <https://googlechromelabs.github.io/chrome-for-testing/> or <https://developer.chrome.com/docs/chromedriver/downloads> and download the Chrome driver that matches your Google Chrome version. Unzip and keep the Chrome driver in any of your computer directories.

Download the Gurupadigam creator app from the following link and install it.

https://www.dropbox.com/scl/fi/fmy600jkheedzt6ur35xn/Gurupadigam_Creator.exe?rlkey=3ucx3iwx4vgbzh9lofto6yvg2&st=iigbxe28&dl=0

Usage of Gurupadigam creator application

After installation, run the Gurupadigam creator app. The following page will open (Fig. 1).



The screenshot displays the 'Gurupadigam Creator' application window. At the top, the title 'Gurupadigam Creator' is centered in a blue font. Below the title, the user's name and title, 'Dr.Edwin Dhas D, Associate Professor (ECE), SIMATS Engineering', are displayed. The interface features three main upload sections, each with a text input field, a 'Browse' button, and an 'Upload' button. The first section is for 'Upload the University Gurupadigam PPT', the second for 'Upload your template PPT', and the third for 'Upload the student record (.xlsx file)'. At the bottom, there is a 'Description' text input field, a 'Settings' button, and a 'Proceed' button.

Gurupadigam Creator

Dr.Edwin Dhas D, Associate Professor (ECE), SIMATS Engineering

Upload the University Gurupadigam PPT

Upload your template PPT

Upload the student record (.xlsx file)

Description

Fig.1

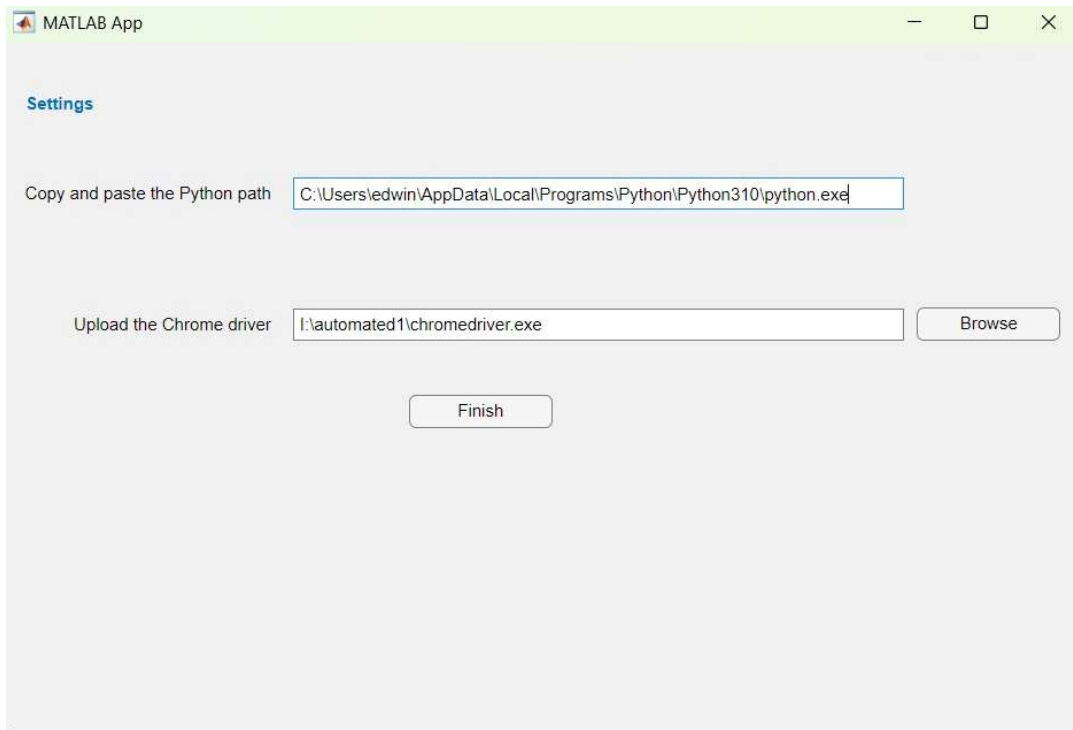


Fig. 2 Layout of Settings

Click the settings button. In the settings window, copy and paste the Python path as shown in Fig. 2. You can find the path by running the command ‘where python’ in the command prompt. Also, upload the Chrome driver.exe and click finish.

The image shows a MATLAB App window titled "MATLAB App" with standard window controls. The main content area is titled "Gurupadigam Creator" in blue text. Below the title, it says "Dr.Edwin Dhas D, Associate Professor (ECE), SIMATS Engineering". The interface has three main sections for file uploads:

- Upload the University Gurupadigam PPT:** A text box contains the path "H:\Demo\SSE-Gurupadigam-July-11th-to-17th--2025--s.pptx". Below it are "Browse" and "Upload" buttons.
- Upload your template PPT:** A text box contains the path "H:\Demo\Dr.Edwin Dhas SSE-Gurupadigam-04_06_2025 to 10_07_202.pptx". Below it are "Browse" and "Upload" buttons.
- Upload the student record (.xlsx file):** A text box contains the path "I:\Gurupadigam new\Data.xlsx". Below it are "Browse" and "Upload" buttons.

At the bottom, there is a "Description" text box containing the text "University Gurupadigam - 18 slides:: Your template - 40 slides:::: Student count - 20::". Below the description box are two buttons: "Settings" and "Proceed".

Fig. 3 Layout of document loading

Browse and upload the Univeristy PPT, Faculty template and the data.xlsx as shown in Fig. 3. The template of the data.xlsx document is shown in Fig. 4. Once the Upload button is pressed, it will display the number of slides present in the University Gurupadigam, your template, and the number of student details present in the Excel sheet.

	A	B	C	D	E	F	G	H
3				Start id	Stop id	Student Contact name	Father Contact Name	Mother Contact Name
4			Student name 1	1	2	Student1 contact name	Student1 father contact name	Student1 mother contact name
5			Student name 2	3	4	Student2 contact name	Student2 father contact name	Student2 mother contact name
6			Student name 3	5	6	Student3 contact name	Student3 father contact name	Student3 mother contact name
7			Student name 4	7	8	Student4 contact name	Student4 father contact name	Student4 mother contact name
8			Student name 5	9	10	Student5 contact name	Student5 father contact name	Student5 mother contact name
9			Student name 6	11	12	Student6 contact name	Student6 father contact name	Student6 mother contact name
10			Student name 7	13	14	Student7 contact name	Student7 father contact name	Student7 mother contact name
11			Student name 8	15	16	Student8 contact name	Student8 father contact name	No
12			Student name 9	17	18	Student9 contact name	Student9 father contact name	Student9 mother contact name
13			Student name 10	19	20	Student10 contact name	Student10 father contact name	Student10 mother contact name
14			Student name 11	21	22	Student11 contact name	Student11 father contact name	Student11 mother contact name
15			Student name 12	23	24	Student12 contact name	Student12 father contact name	No
16			Student name 13	25	26	Student13 contact name	Student13 father contact name	Student13 mother contact name
17			Student name 14	27	28	Student14 contact name	Student14 father contact name	Student14 mother contact name
18			Student name 15	29	30	Student15 contact name	Student15 father contact name	Student15 mother contact name
19			Student name 16	31	32	Student16 contact name	Student16 father contact name	Student16 mother contact name
20			Student name 17	33	34	Student17 contact name	Student17 father contact name	Student17 mother contact name
21			Student name 18	35	36	Student18 contact name	Student18 father contact name	Student18 mother contact name
22			Student name 19	37	38	Student19 contact name	Student19 father contact name	Student19 mother contact name
23			Student name 20	39	40	Student20 contact name	Student20 father contact name	Student20 mother contact name
24								

Fig. 4: Template of data.xlsx file

Once the three document are uploaded, you can click proceed to next step.

(a) Automatic background change

Click apply background change button as shown in Fig. 5. The background will be automatically changed, and the resultant file will be present in the Faculty_File directory. The directory will be created where the source PPT is present.

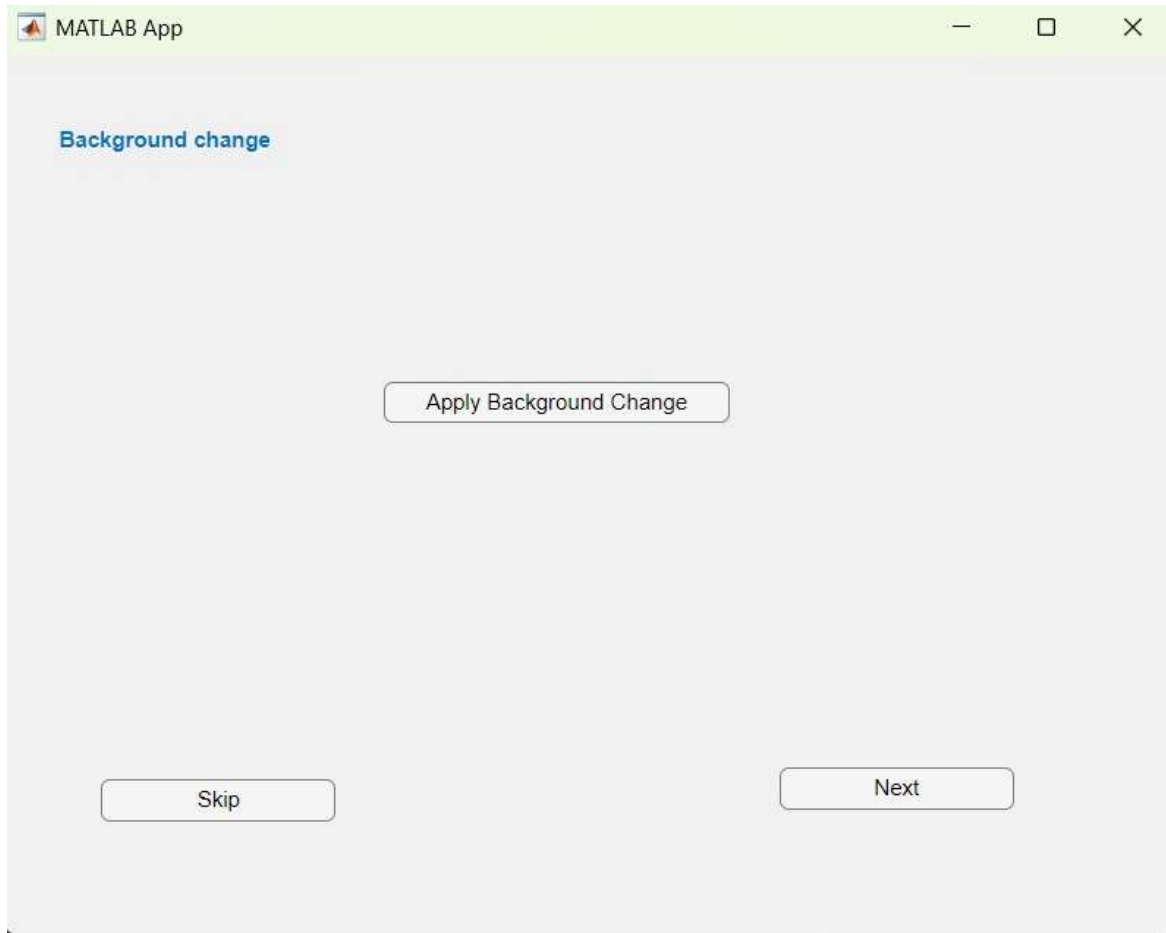


Fig. 5: Layout of background change

(b) Automatic mentor-mentee photo placement / photo replacement

Store the photographs of the mentor-mentee photographs in a directory. Select the directory in which the photographs are stored and then click upload as shown in Fig. 6. The photos present in the directory, along with the student's name, will be displayed. You need to match the name with the photo by selecting the Select button. No need to select the names if the photo is not required. Do this for all the photographs. After matching the names and photographs, click the “Done” button only once and click “Next”. The layout of the name selection process is shown in Fig.7.

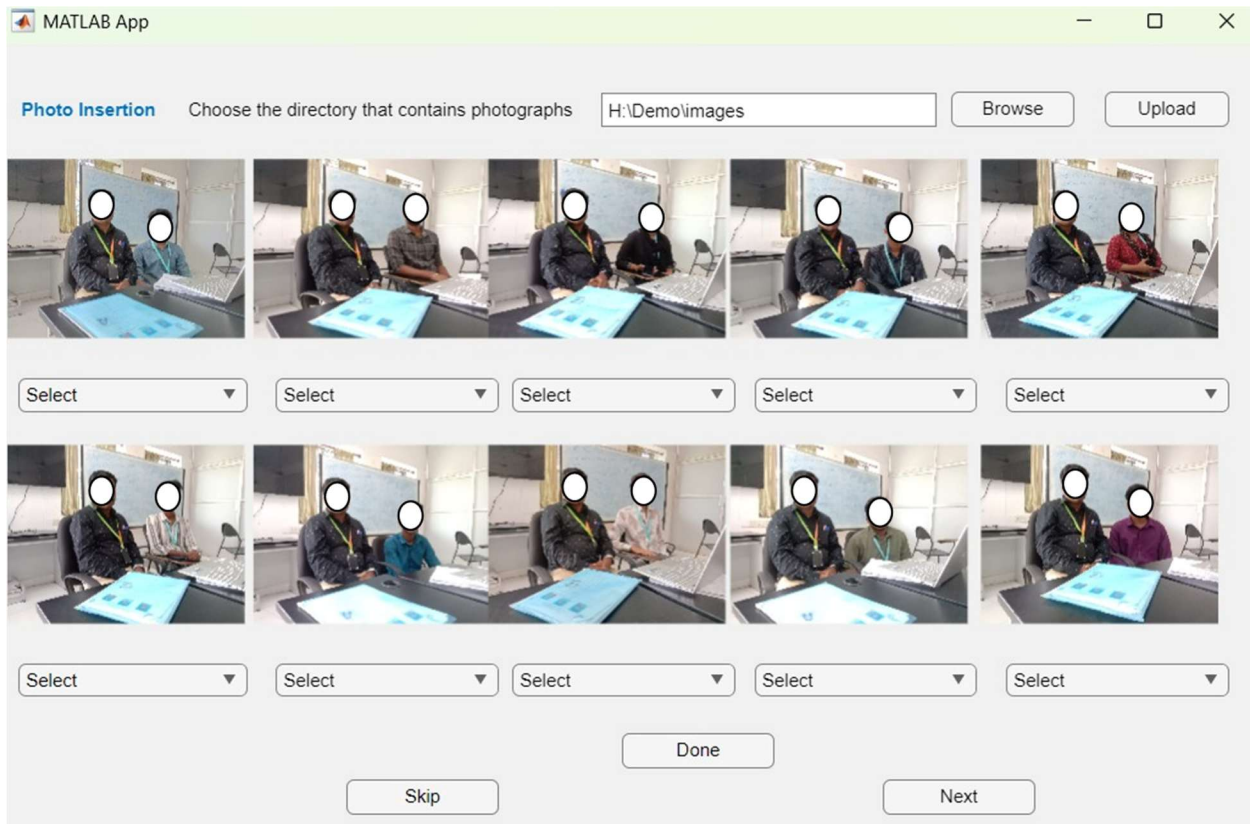


Fig. 6: Layout of Mentor-Mentee photo upload

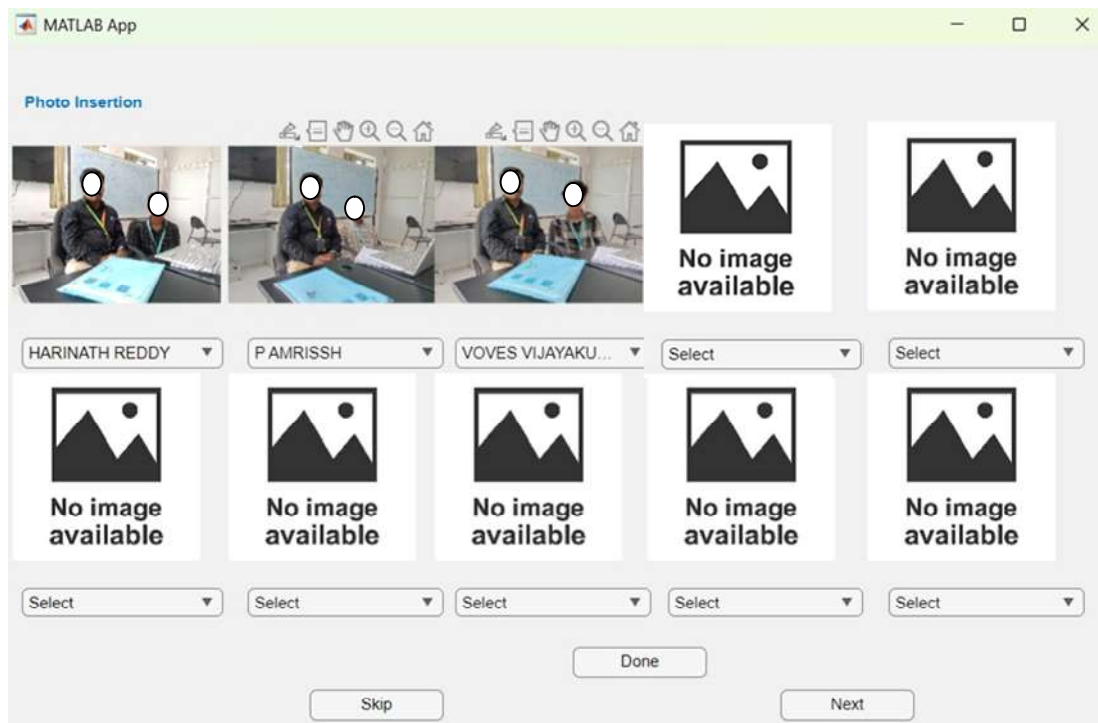


Fig.7: Layout of name matching in Mentor-Mentee photo selection

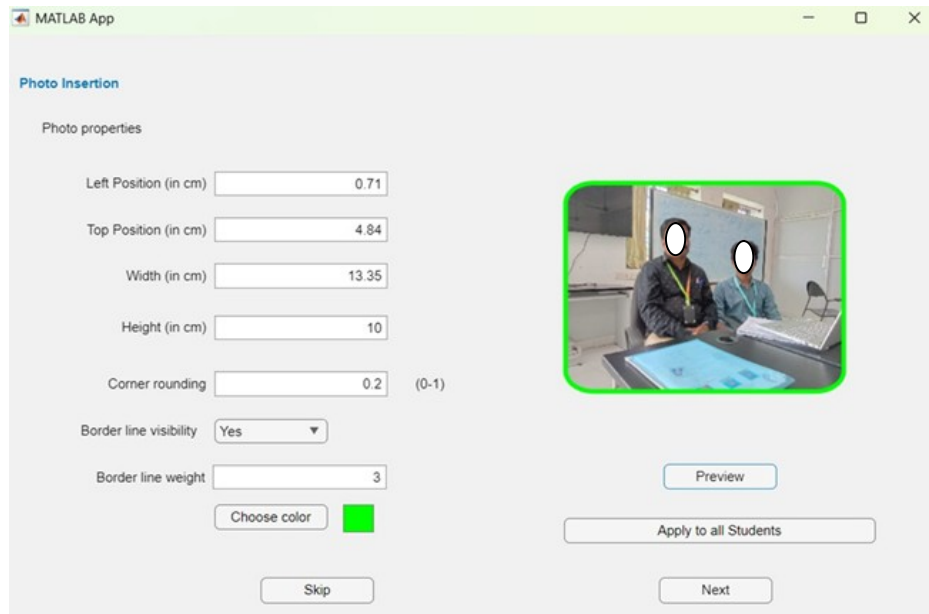


Fig. 8 Layout of photo settings

After matching the names, you can format the photo. This includes the position in which the photo needs to be pasted, width, height, border settings, corner rounding, etc, as shown in Fig. 8. You can preview the image by clicking the preview button. If there is already a photo in the same location, that photo will be replaced by the new photo. The setting you are applying will be stored for next usage. Once the “Apply to all students” button is pressed. All the matched photos will be pasted in the respective PPT slides with the specified settings.

(c) Automatic table formatting

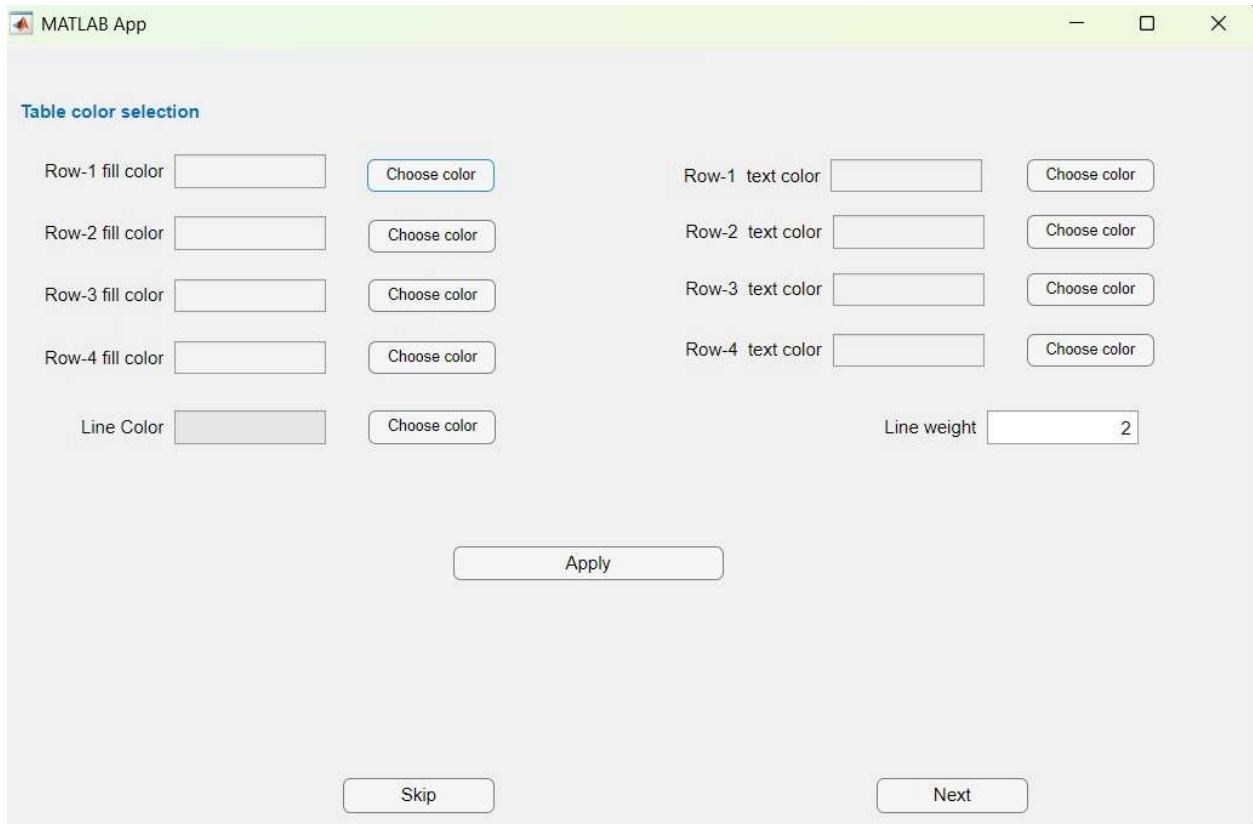


Fig. 9: Layout of table settings

The table color can be easily formatted by modifying the fill color and text color. You can set the fill color for row-1, row-2, row-3, and row-4 by selecting “Choose Color” button as shown in Fig. 9. Once the “Choose color” button is selected, it will show the table that was provided in the University Gurupadigam (refer Fig. 9). You can point the mouse pointer to select the corresponding row colors. You can also select the text colors of each row by selecting the color. You can also select the line weight for the table (refer Fig. 10). Once this setting is completed, you can click the apply button. This will modify all your tables present in your PPT, and the resultant PPT will be stored in the Faculty_file folder with the name output.pptx.

Click a point to select color

SIMATS ENGINEERING

Mentee Name, Reg No	Slot B	Total Marks	Marks Obtained	Class Average Mark
Mentee & Mentor Photo	Model Exam A Slot			
	Test 1 (B Slot)			
	Test 2 (B Slot)			
	Test 3 (B Slot)			
	Test 4 (B Slot)			
	Test 5 (B Slot)			

July 11th to 17th 2025

Fig .10. Selection of table color from the table

MATLAB App

Table color selection

Row-1 fill color	<input type="color" value="#0000FF"/>	<input type="button" value="Choose color"/>	Row-1 text color	<input type="color" value="#000000"/>	<input type="button" value="Choose color"/>
Row-2 fill color	<input type="color" value="#CCCCFF"/>	<input type="button" value="Choose color"/>	Row-2 text color	<input type="color" value="#000000"/>	<input type="button" value="Choose color"/>
Row-3 fill color	<input type="color" value="#CCCCFF"/>	<input type="button" value="Choose color"/>	Row-3 text color	<input type="color" value="#000000"/>	<input type="button" value="Choose color"/>
Row-4 fill color	<input type="color" value="#CCCCFF"/>	<input type="button" value="Choose color"/>	Row-4 text color	<input type="color" value="#000000"/>	<input type="button" value="Choose color"/>

Line Color

Line weight

Fig. 11. Layout of table color selection window after color selection

(d) Generation of Gurupadigam for parents in PDF form

Parents PDF document generation Off ☐ On

1. PENUJURI ROHITH	<input type="checkbox"/>	8. DINESH BHARADWAJ	<input type="checkbox"/>	15. Modupalli Bhavesh	<input type="checkbox"/>
2. S. BALU	<input type="checkbox"/>	9. VOVES VIJAYAKUMAR JAYANTHI	<input type="checkbox"/>	16. Katem Sivaji	<input type="checkbox"/>
3. SHAIK MOHAMMAD SUHAIL	<input type="checkbox"/>	10. PRAGADISH R	<input type="checkbox"/>	17. Rage yaswanth	<input type="checkbox"/>
4. C.MAHESWAR REDDY	<input type="checkbox"/>	11. P.L OAVIKSHA	<input type="checkbox"/>	18. Yoga Balaji	<input type="checkbox"/>
5. BOSCO DANIELA	<input type="checkbox"/>	12. S NISHANTH	<input type="checkbox"/>	19. Saran	<input type="checkbox"/>
6. HARINATH REDDY	<input type="checkbox"/>	13. PREETE V	<input type="checkbox"/>	20. Owk upendra	<input type="checkbox"/>
7. P.AMRISSH	<input type="checkbox"/>	14. THIYAGESH RR	<input type="checkbox"/>		

Generate PDF

Skip Next

Fig. 12: Layout for generating the Parents PDF

The window shown in Fig. 12 helps to generate a PDF document that can be sent to the parents. The application will generate the PDF document in the folder named Parents_file. Once the PDF is generated successfully, the light changes from red to green. If the PDF is not successfully generated, the color remains red. You can regenerate the PDF for specific students by enabling/disabling the tick mark. Kindly ensure the generated document in the Parents_file is correctly formatted.

(e) Generation of Gurupadigam for students in PPT form (3 slides)

Students PPT document generation Off ☐ On

1. <input type="text" value="PENUJURI ROHITH"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	8. <input type="text" value="DINESH BHARADWAJ"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	15. <input type="text" value="Modupalli Bhavesh"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
2. <input type="text" value="S. BALU"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	9. <input type="text" value="VOVES VIJAYAKUMAR JAYANTHI"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	16. <input type="text" value="Katem Sivaji"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
3. <input type="text" value="SHAIK MOHAMMAD SUHAIL"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	10. <input type="text" value="PRAGADISH R"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	17. <input type="text" value="Rage yaswanth"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
4. <input type="text" value="C.MAHESWAR REDDY"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	11. <input type="text" value="P.L OAVIKSHA"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	18. <input type="text" value="Yoga Balaji"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
5. <input type="text" value="BOSCO DANIEL A"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	12. <input type="text" value="S NISHANTH"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	19. <input type="text" value="Saran"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
6. <input type="text" value="HARINATH REDDY"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	13. <input type="text" value="PREETE V"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	20. <input type="text" value="Owk upendra"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
7. <input type="text" value="P AMRISSH"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	14. <input type="text" value="THIYAGESH RR"/>	<input type="radio"/>	<input checked="" type="checkbox"/>			

Fig. 13: Layout for generating the Students' PPT

The window shown in Fig. 13 helps to generate a PPT document that can be sent to the students. The application will generate the PPT document in the folder named Student_file. Once the PPT is generated successfully, the light changes from red to green. If the PPT is not successfully generated, the color remains red. You can regenerate the PPT for specific students by enabling/disabling the tick mark. Kindly ensure the generated document in the Student_file is correctly formatted.

(f) Automatic sending of parents' Gurupadigam (in PDF) through WhatsApp

This option helps to send the Students Gurupadhigam PDF generated in the Parent_file directory to the parents. The generated PDF will be sent to the corresponding parent whose parent contact name is stored in the data.xlsx file. Kindly ensure the document before sending. You must have a stable internet connection for automatic sending of Gurupadigam PDF. The message that needs to be sent along with the Gurupadigam PDF attachment can be entered in the message window. You can stop the WhatsApp message sending process by making the Switch to “Off” position.

The light will change to green color once the attachment is sent. Kindly ensure whether the Gurupadigam is sent to all the parents on your mobile WhatsApp. If the file attachment is not attached within 10 seconds, the message won't be sent, but it still shows green color. You can also select and send to a specific student's parent by enabling the tick button as shown in Fig. 14.

MATLAB App [Window Controls]

Send Gurupadigam to Father Off ☐ On ☐

1. <input type="text" value="PENUJURI ROHITH"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	8. <input type="text" value="DINESH BHARADWAJ"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	15. <input type="text" value="Modupalli Bhavesh"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
2. <input type="text" value="S. BALU"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	9. <input type="text" value="VOVES VIJAYAKUMAR JAYANTHI"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	16. <input type="text" value="Katem Sivaji"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
3. <input type="text" value="SHAIK MOHAMMAD SUHAIL"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	10. <input type="text" value="PRAGADISH R"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	17. <input type="text" value="Rage yaswanth"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
4. <input type="text" value="C.MAHESWAR REDDY"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	11. <input type="text" value="P.L OAVIKSHA"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	18. <input type="text" value="Yoga Balaji"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
5. <input type="text" value="BOSCO DANIEL A"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	12. <input type="text" value="S NISHANTH"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	19. <input type="text" value="Saran"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
6. <input type="text" value="HARINATH REDDY"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	13. <input type="text" value="PREETE V"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	20. <input type="text" value="Owk upendra"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
7. <input type="text" value="P AMRISSH"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	14. <input type="text" value="THIYAGESH RR"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	Ensure the document before sending		

Message:

Fig. 14: Layout for Sending the Gurupadigam to parents through WhatsApp

(g) Automatic sending of students' Gurupadigam (in PPT) through WhatsApp

This option helps to send the Students Gurupadigam PPT (3-page) generated in the Student_file directory. The generated PPT will be sent to the corresponding student whose student's contact name is stored in the data.xlsx file. Kindly ensure the document before sending. You must have a stable internet connection for automatic sending of Gurupadigam PPT. The message that needs to be sent along with the Gurupadigam PPT attachment can be entered in the message window. You can stop the WhatsApp message sending process by making the Switch to “Off” position. The light will change to green color once the attachment is sent. If the file attachment is not attached within 10 seconds, the message won't be sent, but it still shows green color. (Kindly

ensure whether the Gurupadigam is sent to all the students). You can also select and send to specific students by enabling the tick button as shown in Fig. 15.

MATLAB App

Send 3-page PPT to Students Off ☐ On

1. <input type="text" value="PENUJURI ROHITH"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	8. <input type="text" value="DINESH BHARADWAJ"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	15. <input type="text" value="Modupalli Bhavesh"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
2. <input type="text" value="S. BALU"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	9. <input type="text" value="VOVES VIJAYAKUMAR JAYANTHI"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	16. <input type="text" value="Katem Sivaji"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
3. <input type="text" value="SHAIK MOHAMMAD SUHAIL"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	10. <input type="text" value="PRAGADISH R"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	17. <input type="text" value="Rage yaswanth"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
4. <input type="text" value="C.MAHESWAR REDDY"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	11. <input type="text" value="P.L OAVIKSHA"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	18. <input type="text" value="Yoga Balaji"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
5. <input type="text" value="BOSCO DANIEL A"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	12. <input type="text" value="S NISHANTH"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	19. <input type="text" value="Saran"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
6. <input type="text" value="HARINATH REDDY"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	13. <input type="text" value="PREETE V"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	20. <input type="text" value="Owk upendra"/>	<input type="radio"/>	<input checked="" type="checkbox"/>
7. <input type="text" value="P.AMRISSH"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	14. <input type="text" value="THIYAGESH RR"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	Ensure the document before sending		

Message

Fig. 15: Layout for Sending the Gurupadigam to students through WhatsApp