

# **Train Robot to Climb Stairs: Get Dimension of Staircase**

21\_22-J 34

Status Document 1

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IT18217100

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Co-Supervisor – Mr.S.M.B. Harshanath

B.Sc. (Hons) Degree in Information Technology Specializing in Software  
Engineering

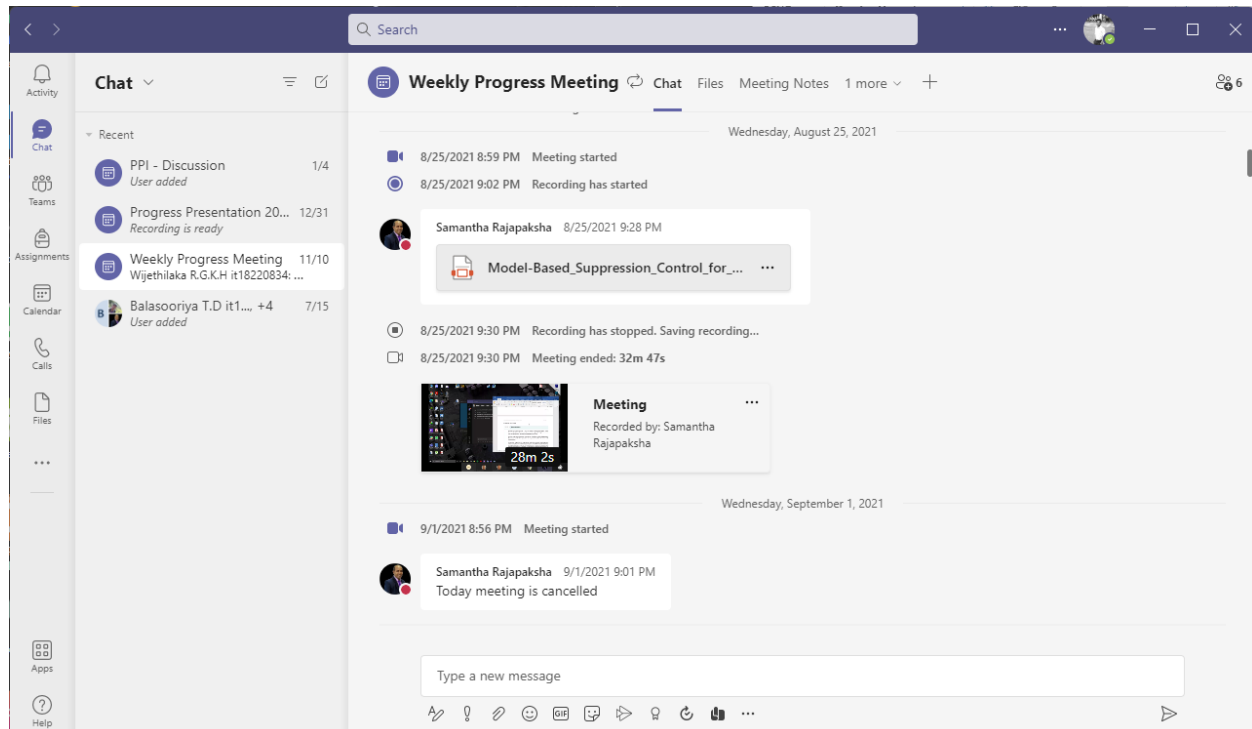
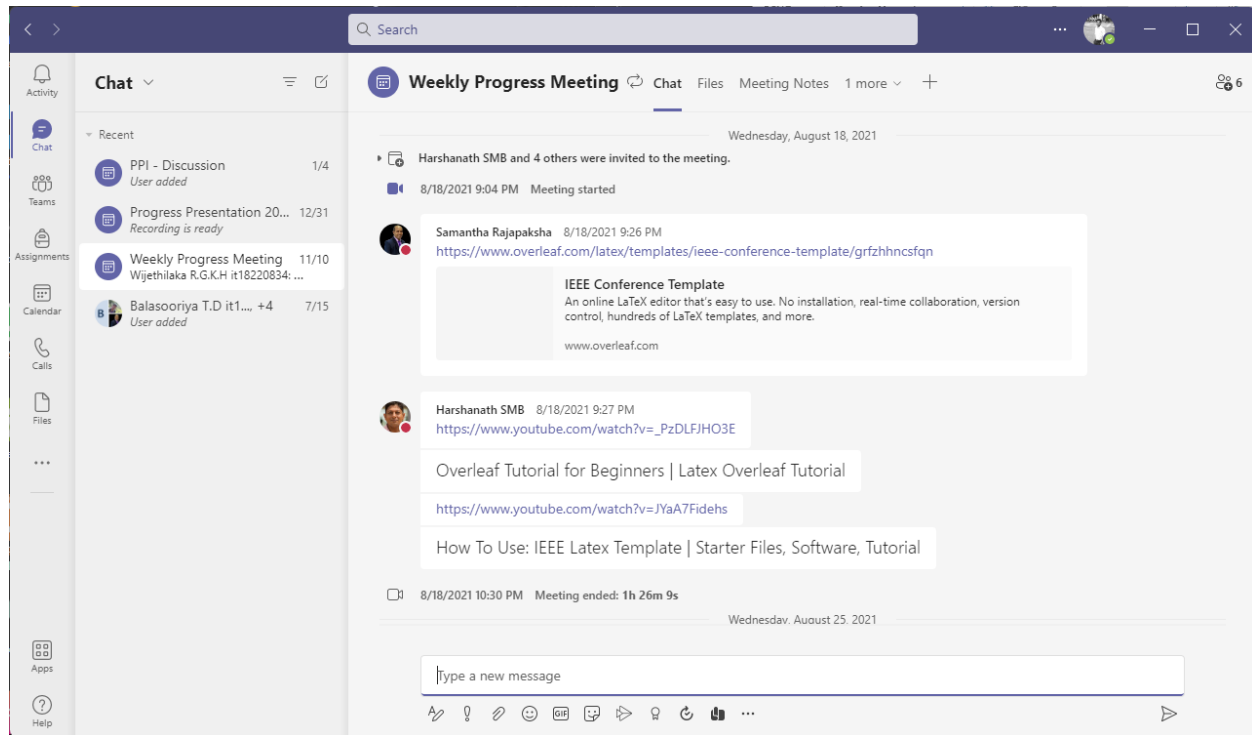
Department of Software Engineering

Sri Lanka Institute of Information Technology  
Sri Lanka

January 2022

# 1) Screenshots of chats and calls with supervisors

## 1.1 MS Teams



Activity

Chat

Teams

Assignments

Calendar

Calls

Files

...

Apps

Help

Chat

Recent

- PPI - Discussion 1/4  
User added
- Progress Presentation 20... 12/31  
Recording is ready
- Weekly Progress Meeting 11/10  
Wijethilaka R.G.K.H it18220834: ...
- Balasooriya T.D it1... +4 7/15  
User added

Weekly Progress Meeting Chat Files Meeting Notes 1 more +

Harshanath SMB 9/1/2021 9:04 PM  
<https://www.icter.org/conference/important-dates/>

9/1/2021 9:10 PM Meeting ended: 13m 41s

Wednesday, September 8, 2021

9/8/2021 9:00 PM Meeting started

Samantha Rajapaksha 9/8/2021 9:05 PM  
<https://www.theconstructsim.com/>

<https://www.udemy.com/>

Online Courses - Learn Anything, On Your Schedule | Udemy  
Udemy is an online learning and teaching marketplace with over 155,000 courses and 40 million students. Learn programming, marketing, data science and more.  
[www.udemy.com](https://www.udemy.com/)

Harshanath SMB 9/8/2021 9:15 PM  
<https://pubmed.ncbi.nlm.nih.gov/23835772/>

Functional predictors of stair-climbing speed in older adults - PubMed  
An older adult's stair-climbing speed can be accurately estimated by using a model that includes his or her usual gait speed and OLST. This information will help health care...

Type a new message

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An older adult's stair-climbing speed can be accurately estimated by using a model that includes his or her usual gait speed and OLST. This information will help health care...  
[pubmed.ncbi.nlm.nih.gov](https://pubmed.ncbi.nlm.nih.gov/23835772/)

<https://pubmed.ncbi.nlm.nih.gov/9309638/>

Energy cost of stair climbing and descending on the college alumnus question...  
In calculating the physical activity index (PAI) on the college alumnus questionnaire, it is assumed that 8 kcal are expended for every 20 steps climbed. This value is equal to an energy...  
[pubmed.ncbi.nlm.nih.gov](https://pubmed.ncbi.nlm.nih.gov/9309638/)

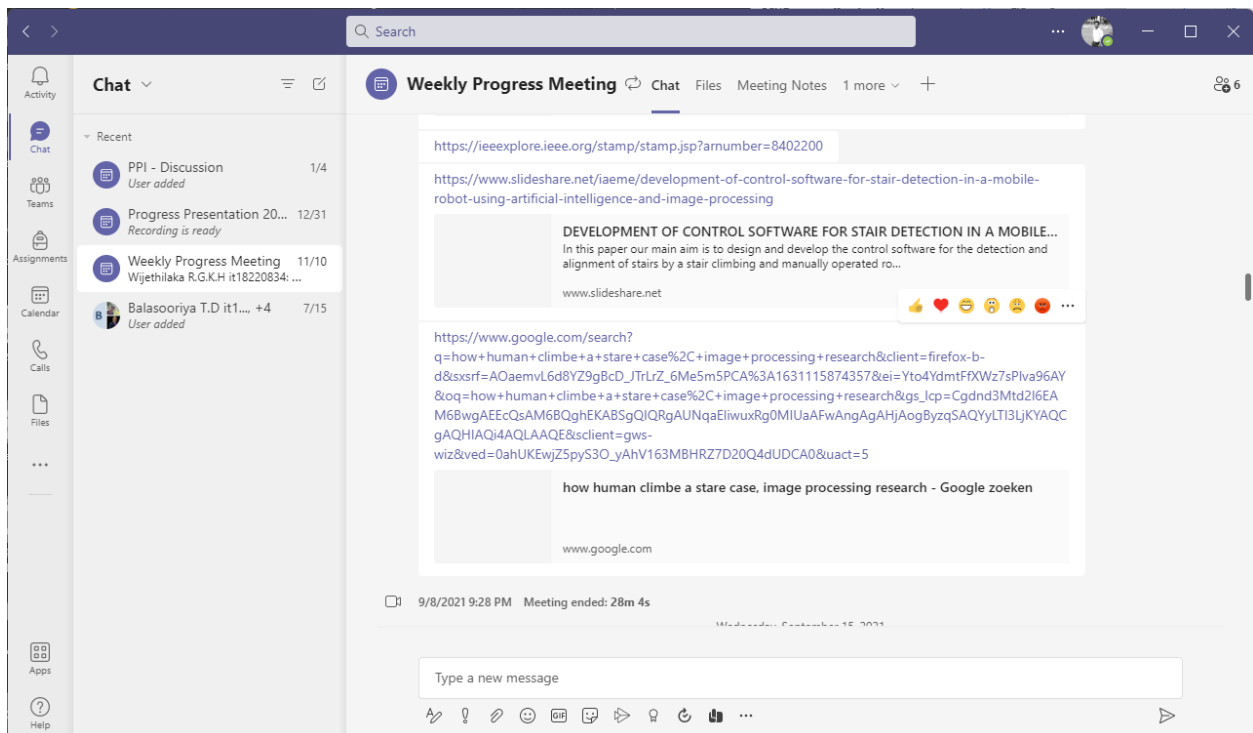
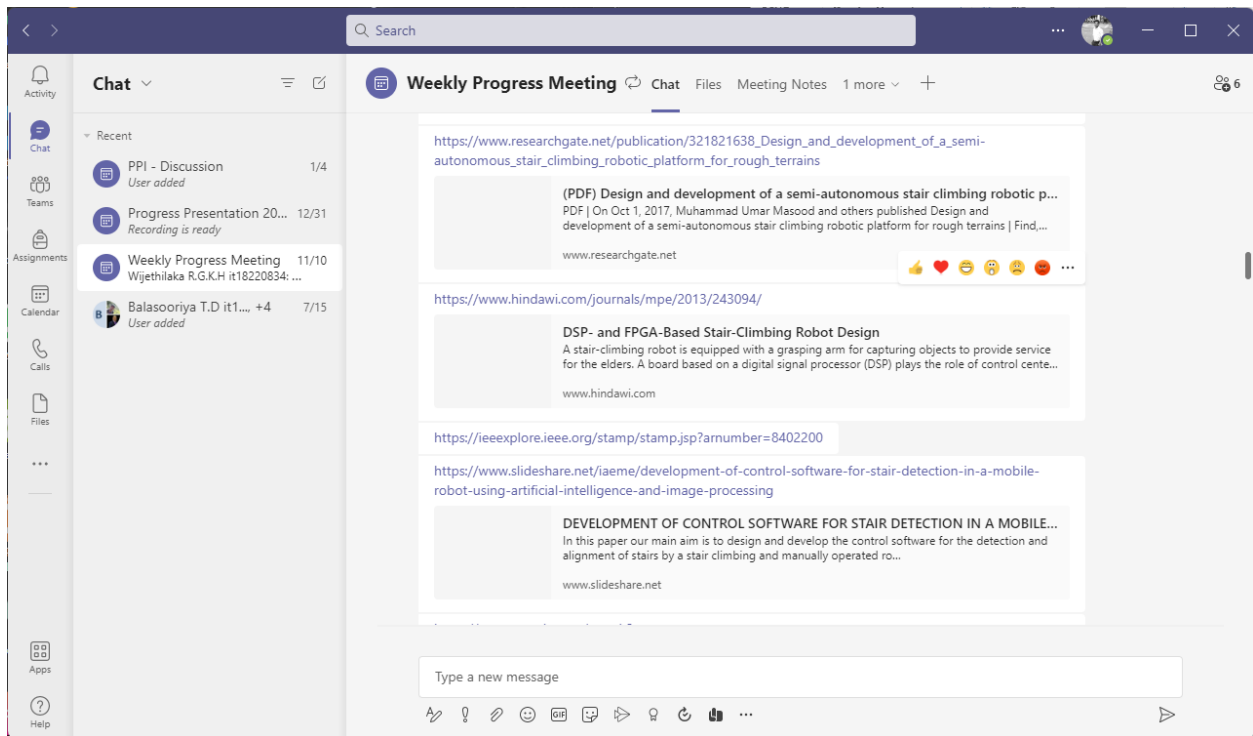
<https://journals.sagepub.com/doi/full/10.1177/1729881417720783>

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[journals.sagepub.com](https://journals.sagepub.com)

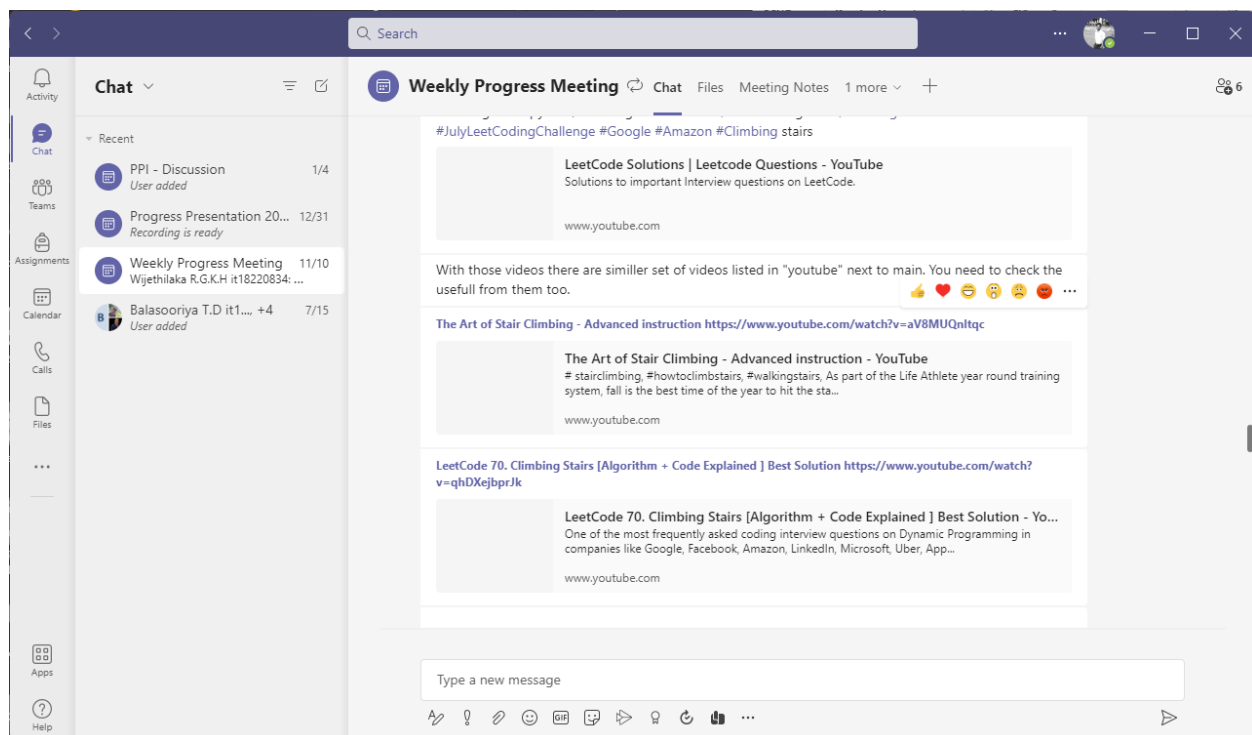
[https://www.researchgate.net/publication/257922577\\_Vision-based\\_Detection\\_of\\_Stair-cases](https://www.researchgate.net/publication/257922577_Vision-based_Detection_of_Stair-cases)

(PDF) Vision-based Detection of Stair-cases

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PPI - Discussion

User added

1/4

Progress Presentation 20...

Recording is ready

12/31

Weekly Progress Meeting

Wijethilaka R.G.K.H it18220834: ...

11/10

Balasooriya T.D it1... +4

User added

7/15

Weekly Progress Meeting

Chat

Files

Meeting Notes

1 more

+

Jayawardana J.T.H it18216974

9/19/2021 11:25 AM

Harshanath SMB 9/19/2021 10:32 AM

will mark required change in the NOTE area of the presentation.

Check and Do the changes before rehearsal. FIX A TIME for the...

Sure sir

Thank you

Harshanath SMB

9/19/2021 11:28 AM

when you are having the weekly meeting please let me know the daye and time to fix my time table

Jayawardana J.T.H it18216974

9/19/2021 11:31 AM

Harshanath SMB 9/19/2021 11:28 AM

when you are having the weekly meeting please let me know the daye and time to fix my time table

We have the weekly meeting on Wednesday at 9:00 pm sir.

Harshanath SMB

9/19/2021 11:32 AM

ok

did you discuss the presentation with Sir?

Type a new message

🔗

📎

📎

😊

🗨

🗨

👉

💡

🔄

👍

...

Activity

Chat

Teams

Assignments

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Calls

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PPI - Discussion

User added

1/4

Progress Presentation 20...

Recording is ready

12/31

Weekly Progress Meeting

Wijethilaka R.G.K.H it18220834: ...

11/10

Balasooriya T.D it1... +4

User added

7/15

Weekly Progress Meeting

Chat

Files

Meeting Notes

1 more

+

did you discuss the presentation with Sir?

Mr Samantha?

Jayawardana J.T.H it18216974

9/19/2021 11:34 AM

Harshanath SMB 9/19/2021 11:32 AM

did you discuss the presentation with Sir?

Not yet sir

Harshanath SMB

9/19/2021 12:01 PM

📎

21\_22-J 34 FEED BACK.pptx

...

Jayawardana J.T.H it18216974

9/19/2021 1:23 PM

Harshanath SMB 9/19/2021 12:01 PM

[File: 21\_22-J 34 FEED BACK.pptx]

Thank you sir, we would do the necessary changes.

Jayawardana J.T.H it18216974

9/19/2021 10:50 PM

Dear Sir

Type a new message

🔗

📎

📎

😊

🗨

🗨

👉

💡

🔄

👍

...



Activity

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Teams

Assignments

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Files

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Weekly Progress Meeting

ChatFilesMeeting Notes1 more

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Recent

PPI - Discussion1/4  
User added

Progress Presentation 20...12/31  
Recording is ready

Weekly Progress Meeting11/10  
Wijethilaka R.G.K.H it18220834: ...

Balasooriya T.D it1... +47/15  
User added

Dear Sir

Here is the updated version.

21\_22-J 34.pptx

Samantha Rajapaksha9/19/2021 10:51 PM  
email it

Monday, September 20, 2021

9/20/2021 3:00 PM Meeting ended: 14m 55s

Wednesday, September 22, 2021

9/22/2021 9:09 PM Meeting ended: 25s

Wednesday, September 29, 2021

9/29/2021 9:01 PM Meeting started

Wijethilaka R.G.K.H it182208349/29/2021 9:12 PM  
Dear Sir don't we have meeting today

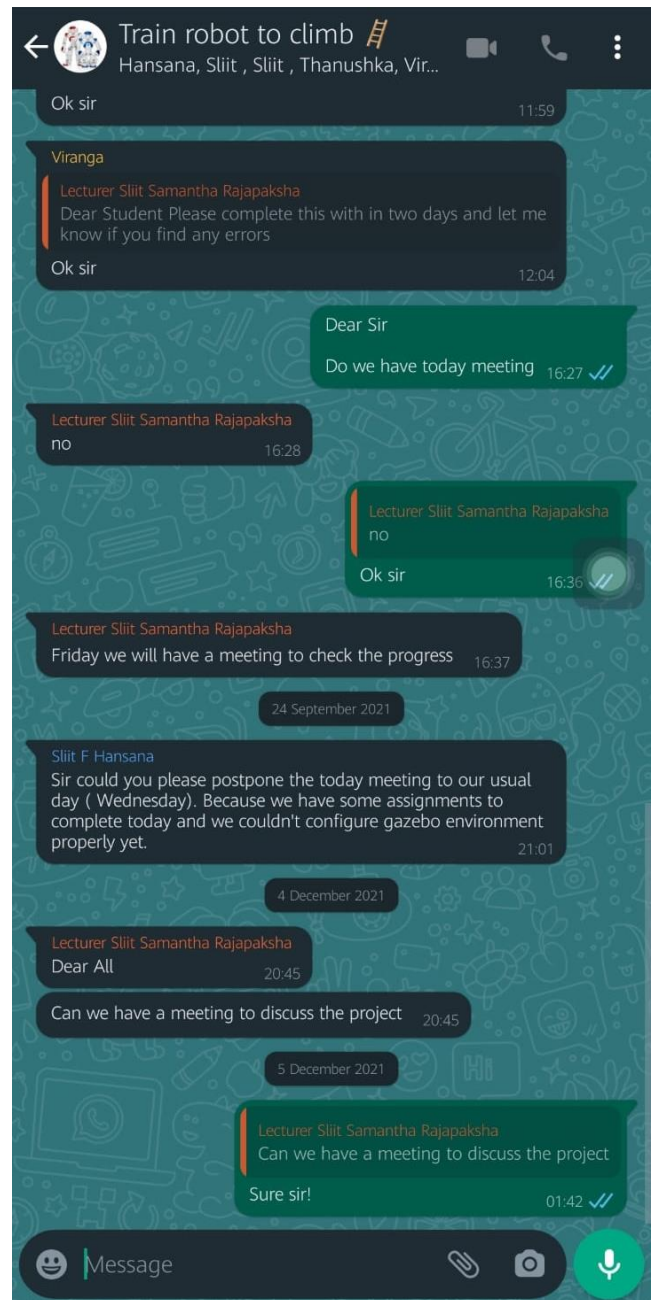
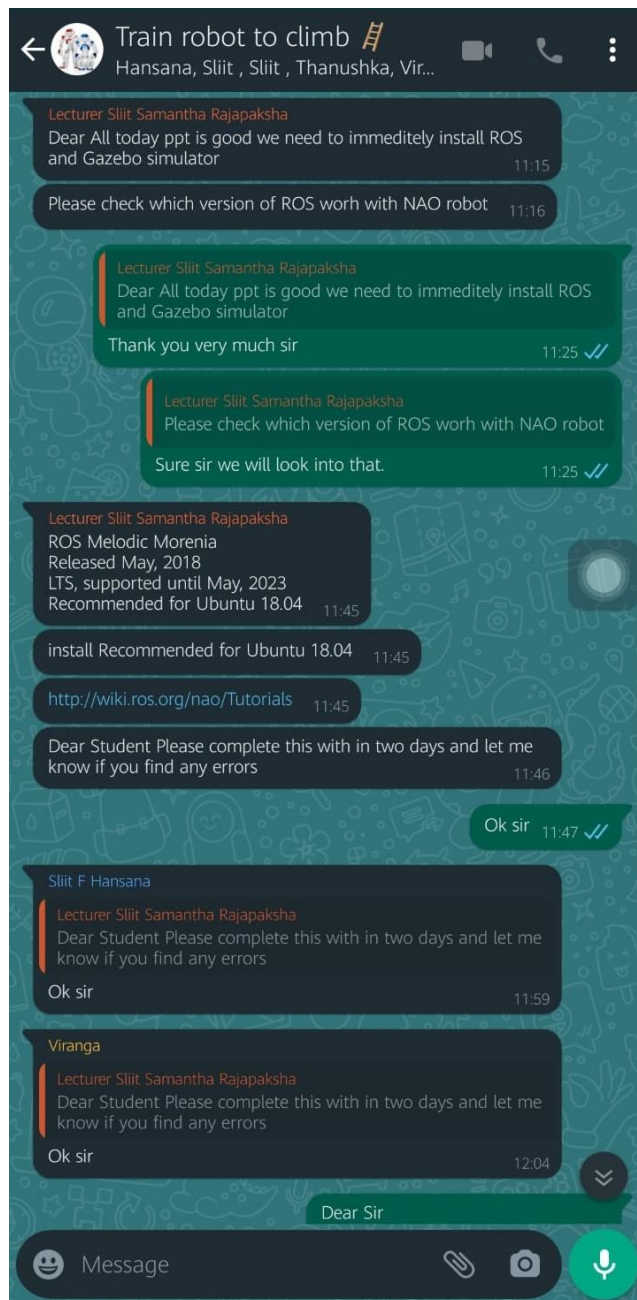
Harshanath SMB9/29/2021 9:19 PM  
no

Type a new message

🔗📎🗨️📧📅📌📎👍...

➤

## 1.2 WhatsApp



## 2 Project View/Gantt Chart

### 2.1 Work Breakdown Structure

The screenshot displays the Microsoft Teams interface for a project named "Research Project". The interface is organized into three main columns: "Not started", "In progress", and "Completed".

**Left Sidebar:** Contains navigation icons for Activity, Chat, Teams, Assignments, Documents, Group discussion, Research papers, Calls, Files, Apps, and Help.

**Top Bar:** Includes a search bar, a "Meet" button, and a "Research Project" dropdown menu.

**Project View:** The main area shows a Kanban board with tasks categorized by progress. Each task card includes a title, a "To do" status, a due date, and the assigned user (H.V Viranga Dilshan it18217100).

Not started	In progress	Completed
<ul style="list-style-type: none"><li><b>Submit 90% Progress Presentation</b> To do 04/01 H.V Viranga Dilshan it18217100</li><li><b>Create Final Report</b> To do 04/05 H.V Viranga Dilshan it18217100</li><li><b>Final Report Submission</b> To do 04/10 H.V Viranga Dilshan it18217100</li><li><b>Website Assessment</b> To do 04/11 H.V Viranga Dilshan it18217100</li></ul>	<ul style="list-style-type: none"><li><b>Research how configure Nao laser head to simulator</b> To do H.V Viranga Dilshan it18217100</li></ul>	<ul style="list-style-type: none"><li><b>Submit-Proposal-Report</b> To do IT18217100.docx 10/06/2021 1 Completed by H.V Viranga Dilsha...</li><li><b>Submit Research Proposal Presentation</b> To do 21_22-J 34.pptx</li></ul>

Microsoft Teams interface showing a project board for "Research Project".

**Left Sidebar:**

- Activity
- Chat
- Teams
- Assignments
- Calendar
- Calls
- Files
- ...
- Apps
- Help

**Top Bar:** Search, Meeting controls (Meet, Video, Audio, Chat, More), Window controls.

**Project Board:**

- General** | Posts | Files | **Research Project** | +
- Group by Progress | Filter (1) | List | **Board** | Charts | Schedule

**Columns:**

- Not started:**
  - + Add task
  - Final Report (Soft Bound)  
To do  
04/16  
H.V Viranga Dilshan it18217100
  - Create Status Document 2 and Log Book  
To do  
04/19  
H.V Viranga Dilshan it18217100
  - Create Final Presentation  
To do  
H.V Viranga Dilshan it18217100
  - Final Presentation and Viva  
To do  
04/28  
H.V Viranga Dilshan it18217100
- In progress:**
  - + Add task
  - Research how configure Nao laser head to simulator  
To do  
H.V Viranga Dilshan it18217100
- Completed:**
  - + Add task
  - Completed by H.V Viranga Dilsha...
  - ✓ Requirement-Gathering Ideas
  - Completed by H.V Viranga Dilsha...
  - ✓ Prepare-Status-Documents Ideas
  - Completed by H.V Viranga Dilsha...
  - ✓ Prepare-PP1-Presentation  
To do  
21\_22-J 34-PP1.odp  
01/09 1 1/1  
Completed by H.V Viranga Dilsha...

Microsoft Teams interface showing a project board for "Research Project" (continued).

**Left Sidebar:**

- Activity
- Chat
- Teams
- Assignments
- Calendar
- Calls
- Files
- ...
- Apps
- Help

**Top Bar:** Search, Meeting controls (Meet, Video, Audio, Chat, More), Window controls.

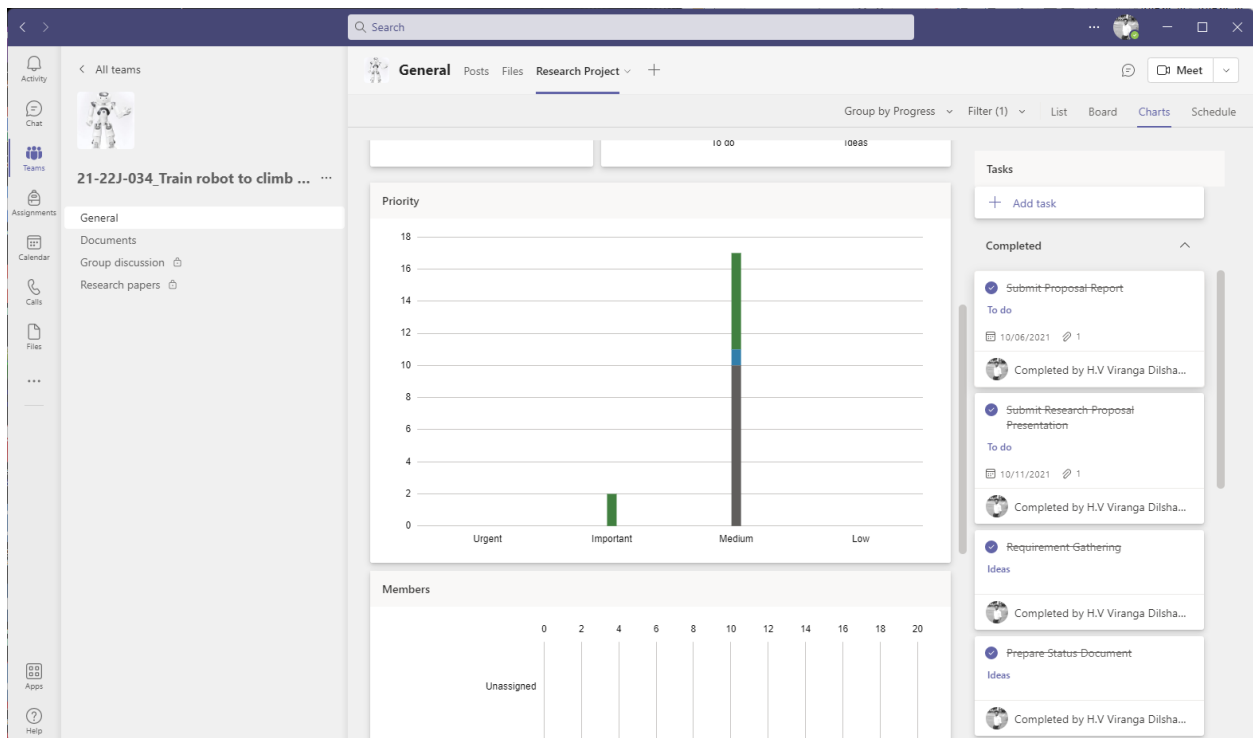
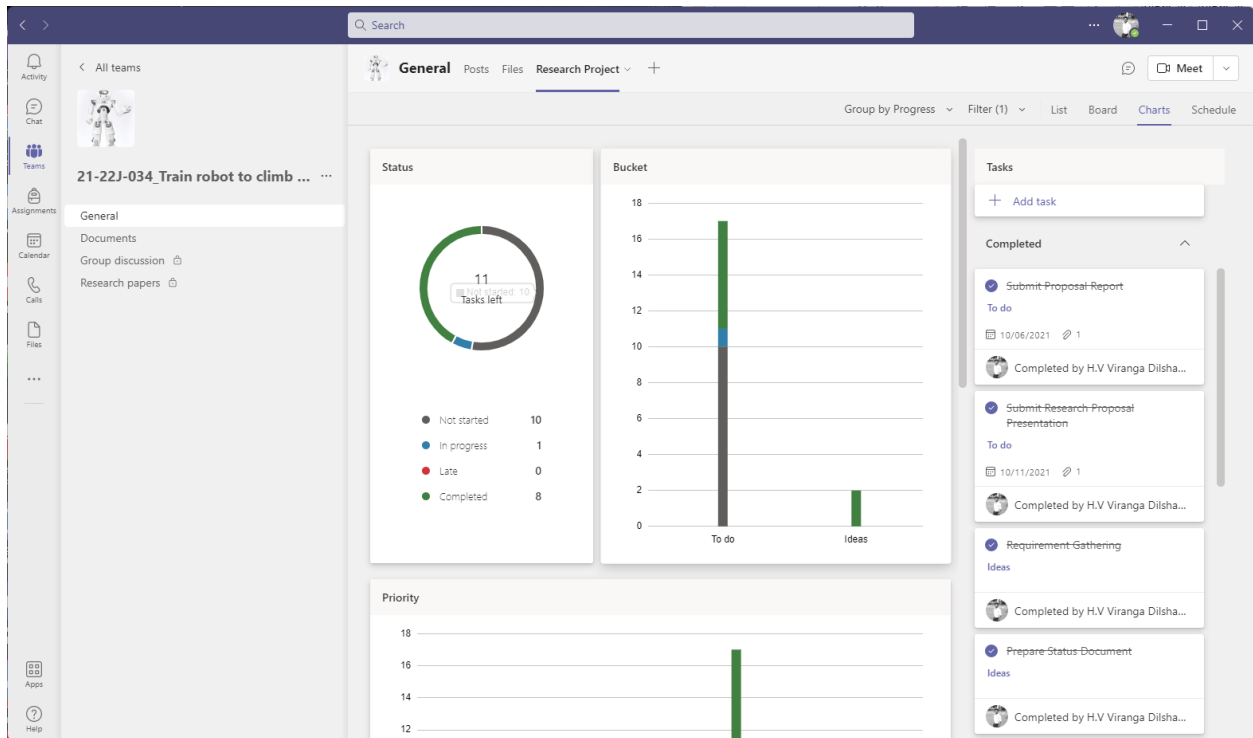
**Project Board:**

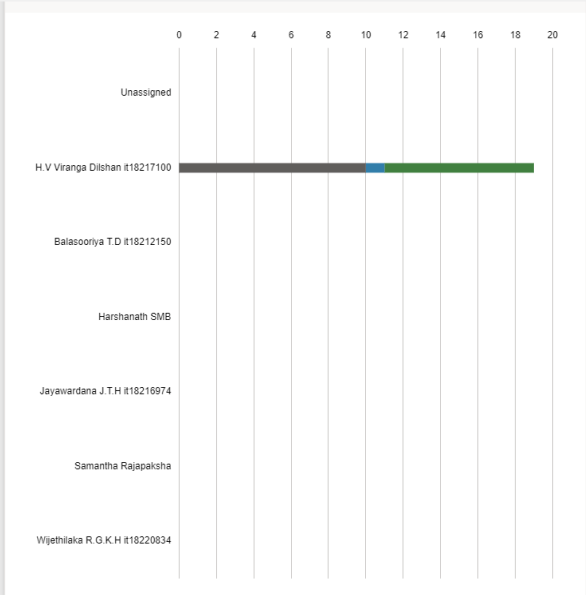
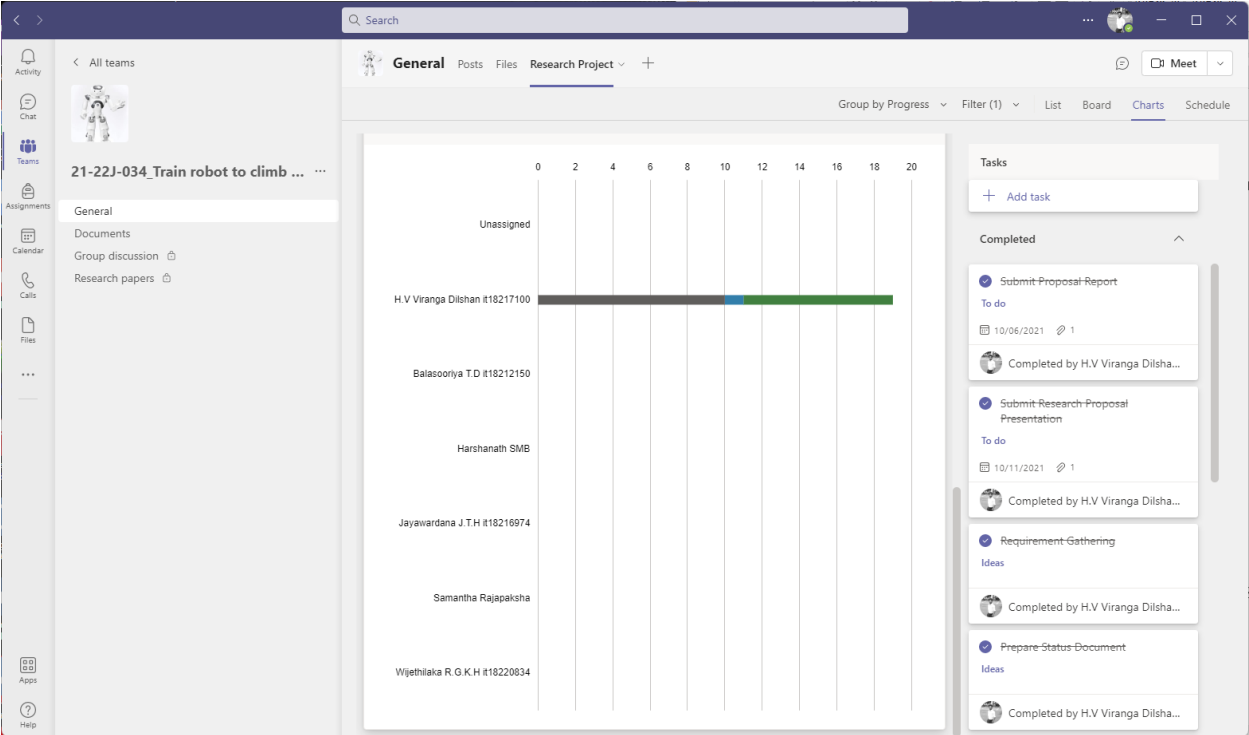
- General** | Posts | Files | **Research Project** | +
- Group by Progress | Filter (1) | List | **Board** | Charts | Schedule

**Columns:**

- Not started:**
  - + Add task
  - H.V Viranga Dilshan it18217100
  - Final Presentation and Viva  
To do  
04/28  
H.V Viranga Dilshan it18217100
  - Final Report (Hard Bound)  
To do  
05/04  
H.V Viranga Dilshan it18217100
  - Start to write research paper  
To do  
Get familiar with latex  
Add author details  
add abstraction  
0/3  
H.V Viranga Dilshan it18217100
- In progress:**
  - + Add task
  - Research how configure Nao laser head to simulator  
To do  
H.V Viranga Dilshan it18217100
- Completed:**
  - + Add task
  - Completed by H.V Viranga Dilsha...
  - ✓ Find-out-how-to-work-sensor-in-Nao-robot-and-how-its-work-in-choreographie  
To do  
Completed by H.V Viranga Dilsha...
  - ✓ Find-out-distance-in-between-staircase-and-robot  
To do  
01/03  
Completed by H.V Viranga Dilsha...
  - ✓ Find-out-way-to-configure-simulator-with-choreograph:  
To do  
12/23/2021  
Completed by H.V Viranga Dilsha...

## 2.2 MS Teams Generate Report





- Tasks
- + Add task
- Completed
- Submit-Proposal-Report
- To do
- 10/06/2021
- Completed by H.V Viranga Dilsha...
- Submit-Research-Proposal Presentation
- To do
- 10/11/2021
- Completed by H.V Viranga Dilsha...
- Requirement-Gathering
- Ideas
- Completed by H.V Viranga Dilsha...
- Prepare-Status-Document
- Ideas
- Completed by H.V Viranga Dilsha...

## 2.3 Gantt Chart

