

No: \_\_\_\_\_

Date: \_\_\_/\_\_\_/\_\_\_

Research Project Periodic Log Entry Form.

Project ID #: 125-26J-299

Student ID #: IT22326522

Name: Perera W.P.M.A.N.

Individual Component: Smart Surgery Scheduling with ML-based Dynamic Gap Filling.

Summary of RP work carried out during the Reporting Period.


Date	RP work
15/08/2025	Started searching for research papers related to my component from Google Scholar, Research Gate.
16/08/2025	Continued reviewing selected papers and noted down gaps, key findings relevant to my component.
17/08/2025	Drafted a survey/questionnaire aimed both patients and hospital staff.
19/08/2025	Studied and mapped the functional flow of my component within the main system.
20/08/2025	Began drafting the Abstract and Background section. Summarized the purpose of the component.
21/08/2025	Worked on the Literature Survey, gathering informations from reviewed papers. Identified the research gap, the lack of localized studies on Sri Lankan context.

22/08/2025	started drafting research problem, by linking the problem to the real-world scenarios faced by patients and doctors.
23/08/2025	Drafted main objectives and specific objectives of the component with project's overall goals.
24/08/2025	Planned the project execution approach by breaking the work into phases. Documented methodologies to be used.
25/08/2025	Identified and documented Project Requirements including functional & non-functional requirements.
26/08/2025	Drew and finalized the use case diagram for the component.
27/08/2025	worked on the commercialization section, analyzing how the component can be scaled considering feasibility, marketability and long term value.

### Supervisor's comments

Student progressing well in Research Project :  Yes / No  
 If No :

Project work to be carried out before next evaluation period:

signature : 

Code based checked:  Yes / No Date : 27/Aug/2025

No: \_\_\_\_\_

Date: \_\_\_/\_\_\_/\_\_\_

Research Project / Periodic Log Entry Form

Project ID :- 25-26J-299

Student ID :- IT22326522

Name :- Perera W.P.M.A.N.

Individual Component :- Smart Surgery Scheduling System

Summary of RP work carried out during the reporting period.

Date	RP work
28/08/2025	Finalized the commercialization part of the proposal report.
29/08/2025	Prepared the remaining sections for submission.
30/08/2025	Drew high-level system architecture diagram for the component.
31/08/2025	Completed drafting and documenting the report.
1/09/2025	Began preparing for the proposal presentation and the survey.
2/09/2025	Outlined the slide structure according to the evaluation guidelines.
3/09/2025	Started creating the initial slides for problem definition, proven gap, knowledge gap, and <sup>proposed</sup> solutions.
4/09/2025	Prepared slides for highlighting shortcomings of existing systems.

No: \_\_\_\_\_

5/09/2025 Drafted slides on application of specialization - based knowledge and identified the key domains related,

6/09/2025 Documented latest technologies and also evaluation and validation approach.

7/09/2025 Drafted commercialization plan.

8/09/2025 worked on data availability & ethical clearance

9/09/2025 finalized market place and budget justification sections. Also created proposal justification sheets.


10/09/2025 Revised the presentation slides.

Supervisor's comments.

Student progressing well in Research/Project:  Yes /  No  
If No:

Project work to be continued before next evaluation period:

code based checked:  Yes /  No

Signature: 

Date: 11/ Sep / 2025

No: \_\_\_\_\_

Date: \_\_\_/\_\_\_/\_\_\_

Research Project Periodic Log entry form

Project ID: 25-26J-299

Student ID: IT22326522

Name: Perera W.P.M.A.N.

Individual component: Smart Surgery Scheduling System

Summary of RP work carried out during report period.

Date	RP work
28/09/2025	Began searching for suitable research topics
29/09/2025- 3/10/2025	searching for research topics
4/10/2025	started creating components for the topics.
6/10/2025	Reviewed & refined both topics & compone
7/10/2025- 10/10/2025	searched for related research papers
11/10/2025- 12/10/2025	Discussed & refined the topics with the team members.


Supervisor's comments.

Student progressing well in Research project: Yes/No

Project work to be continued before next evaluation:

Code based checked: Yes/No

Atlas

signature: 

date: 13/Oct/2025

Research Project Period Log Entry Form

Project ID: 25-26J-299

Student ID: 5T2326522

Name: Perera W.P.M.A.N.

Individual component: Smart Surgery Scheduling System

Summary of AP work carried out during report period.


Date	AP work
14/10/2025 - 15/10/2025	Studied about of greenhouse-based systems for Sri Lanka middle-scale rose farmers.
16/10/2025 - 18/10/2025	Defined my component idea
19/10/2025 - 21/10/2025	worked on proposal report writing.
27/10/2025	

Supervisor's comments

Student progressing well in research project: **Yes** / NO

Project work to be continued before next evaluation.

Code based checked: **Yes** / NO

Signature: 

Date: 27/10/2025



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**Research Project Periodic Log Entry Form**

**Project ID:** 25-26J-299  
**Student ID:** IT22326522  
**Name:** Perera W P M A N  
**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

<b>Date</b>	<b>RP Work</b>
28/10/2025 - 31/10/2025	Worked on proposal presentation.
4/11/2025 - 7/11/2025	Prepared for proposal re-presentation.
10/11/2025 - 13/11/2025	Studied about the iot sensors required. (NPK,EC,PH)

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

Signature:

Date:

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Junius Anjana  
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**Research Project Periodic Log Entry Form**

**Project ID:** 25-26J-299  
**Student ID:** IT22326522  
**Name:** Perera W P M A N  
**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

<b>Date</b>	<b>RP Work</b>
15/11/2025 - 20/11/2025	Did all the hardware and IOT sensors assembling part.
21/11/2025 - 28/11/2025	Continued working on frontend.

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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**Name:** Perera W P M A N  
**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

Date	RP Work
29/11/2025 - 2/12/2025	Finalized the parameters to be monitored using IOT sensors.
3/12/2025 - 10/12/2025	Implemented IOT sensor data transmission logic, tested EC, Ph, temperature, humidity, soil related sensor readings and verified data storage in DB.
11/12/2025 - 14/12/2025	Developed backend CRUD APIs for sensor data handling and validate it.

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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**Name:** Perera W P M A N  
**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

<b>Date</b>	<b>RP Work</b>
15/12/2025 - 20/12/2025	Started training ML using google colab for EC prediction.
21/12/2025 - 25/12/2025	Finalized random forest model and integrated trained ML to backend INM logic and validated prediction through API endpoints.
26/12/2025 - 28/12/2025	Implemented rule-based decision logic for Ph and NPK recommendations.

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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**Name:** Perera W P M A N  
**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

<b>Date</b>	<b>RP Work</b>
29/12/2025 - 31/12/2025	Working on frontend integration of INM module.
1/1/2026 - 7/1/2026	Working on implementations for PP1.
10/1/2026 - 14/1/2026	Start working on research paper writing.

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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Date:

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**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

<b>Date</b>	<b>RP Work</b>
15/1/2026 - 25/1/2026	Drafted a research paper including introduction, literature review, methodology, results and analysis, discussion section, conclusion and future work and abstraction section along with related references.
26/1/2026 - 27/1/2026	After reviewing the research paper started doing modifications according to the feedback given by the supervisor and the co-supervisor.

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

<b>Date</b>	<b>RP Work</b>
28/1/2026 - 30/1/2026	Continue doing modifications of the research paper according to the feedback given by the supervisor and the co-supervisor.
1/2/2026 -12/2/2026	Working on implementations and modifying the DB to manage multiple greenhouses and devices.

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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**Name:** Perera W P M A N  
**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

Date	RP Work
13/2/2026 - 15/2/2026	Continue working on the research paper.
16/2/2026 - 23/2/2026	Working on implementations and modifying the DB to manage multiple greenhouses and devices.

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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25-26 JULY RP**

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**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

<b>Date</b>	<b>RP Work</b>
25/2/2026 - 1/3/2026	Working on final product development.
1/3/2026 - 11/3/2026	Preparation for PP2.
12/3/2026 - 15/3/2026	Continue working on the research paper submissions.

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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**Summary of RP work carried out during the reporting period.**

<b>Date</b>	<b>RP Work</b>
16/3/2026 - 25/3/2026	Continue working on the research paper submissions.
26/3/2026 - 30/3/2026	Working on final product enhancements and creating the demo video.

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

<b>Date</b>	<b>RP Work</b>
1/4/2026 - 12/4/2026	Working on final product enhancements.
15/4/2026 - 17/4/2026	Working on deployment of the application.

**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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25-26 JULY RP**

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**Name:** Perera W P M A N  
**Individual Component:** Intelligent Nutrient Management

**Summary of RP work carried out during the reporting period.**

Date	RP Work
18/4/2026 - 20/4/2026	Made research paper modifications according to CICN feedback.
21/4/2026 - 23/4/2026	Prepared the draft of the final thesis group report.
24/4/2026 - 26/4/2026	Prepared the draft of the final thesis individual report.
27/4/2026 - 30/4/2026	Worked on final presentation preparations, including creating slides and fine-tuning the components in the mobile app.


**Supervisor's Comments**

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

Signature: 

Date: 5<sup>th</sup> May 2026

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