General Information for This Template

- The Learning Journal is only required for teams participating in the following leagues/sub-leagues:
    - RoboCupJunior OnStage
        - Primary
    - RoboCupJunior Soccer
        - Light-Weight – Primary
    - RoboCupJunior Rescue Line
        - Primary
    - RCAP CoSpace Autonomous Driving
        - U12
    - RCAP CoSpace Rescue
        - U12

- Use Learning Journal to record ideas, inventions, experimentation records, observations and all work details.

- Emphasizing on "how to" make it more informative and the thought process going into logging their own work.

- This template contains a suggested structure for your Learning Journal. You may only use the parts which are suitable for your own league/sub-leagues instead of including all parts as stated in the template.

- There is no page limit for the learning journal as the section 6 could contain may pages.

- All figures and tables should be properly numbered.

- Submit the learning journal as a **PDF file**.

ROBOCUP ASIA-PACIFIC 2023

LEARNING JOURNAL

(Cover Page)

League Name:	
Age Group:	
Team Name:	
Team Website:	
Participants and Technical Roles	
Team Photo	
Mentor Name:	
Institution:	
Region:	
Contact Person:	
Contact Email:	
Date:	

ROBOCUP ASIA-PACIFIC 2023

LEARNING JOURNAL

League Name
Team Name
Student 1, Student 2, …
(Region)

1. About the Team

- Team background, including website and video link (if you have).
- Brief description of roles of each participant in the team and past experiences.

2. Project Planning

- Talk about your aim for the competition.
- Describe the overall project plan.

3. Milestones

- Explain your milestones.

4. Robot Structure and Program

- Hardware
  - Give the main structure of each robot (you can use drawings and diagrams to support your explanations).
  - Briefly explain the function of each senor and actuator used.
  - Type of controller used in the robot.
- Software
  - Use diagrams or flowcharts to explain how you program the robot to complete the task.
- Workability
  - How does this robot work?
  - Does the robot be able to complete the prescribed task?
- If you have multiple robots, state it one by one.

5. Innovative solutions

- Explain any innovative solutions/approaches you used to tackle the challenge.

6. Learning Journal (This section could contain many pages)

- You should enter all original concepts, data, diagram for your design into your learning journal while having the activities. You can use the template below for each of your activity: -

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Team: name of your team

Task: name of the task for today   **Date of the activity**

Agenda:

- List of tasks for the day

Process:

- Write down what you have done and what you have discovered for the day.
    - A modification in a discovery algorithm.
    - A new and complicating feature discovered.
    - Other finding will result in a modified approach.
    - Highlight interesting findings, especially those unexpected.
    - etc

- Indicate the reference used, such as web site, code examples, diagrams, other data used, etc.

Issues	Solutions
List the issues need to be tackled for the day.	State the solution for each issue.

What is the next:

- Brief planning for the next activity.

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7. Acknowledgements

- This could be someone from a sponsoring institution, a funding agency, other researchers, or even family members or friends who have helped in the preparation.

8. References

- References to external sources used for major parts of the development process.

Appendix (optional)

- Any additional information you wish to include, such as sample code, robot specifications, etc.