

IT4010

Research Project

Workshop

RP Team

Dr. Jayantha Amararachchi

Dr. Dilshan De Silva

Mr. Thusithanjana Thilakarathne

Ms. Chathurangika Kahandawaarachchi

Mr. Kavinga Yapa

Ms. Shashika Lokuliyana

Mr. Didula Chamara

Ms. Vindya Kalapuge



Faculty of Computing



SLIIT
FACULTY OF COMPUTING



SLIIT

Discover Your Future



Research Project

Awareness Workshop

2024/25
June
Intake

RP Team

...



Dr. Jayantha
Amararachchi

RP Team

Faculty of Computing – IT, CSE, CSSE

RP Coordinator

Academic Staff

Administration Staff



Dr. Dilshan De
Silva



Mr
Thusithanjana
Thilakaratna



Ms.
Chathurangika
Kahadawarachc
hi



Mr. Kavinga
Yapa



Ms. Shashika
Lokuliyana



Mr. Didula
Chamara



Ms. Vindya
Kalapuge



Mr.
Tharaniyawar
ma



Ms. Koshila
Muthumali



Ms. Cheshani
Peris



Ms. Hasini
Rangana

Module Details

- Module Code: IT4010
- Credits : **16**
- Duration : 2 Semesters
- course web page :

[Research Project \(Comprehensive Design and Analysis Project \) - IT4010
\[2024/JUL\]](#)

- **Enrollment key: RP24-25J**

Why Project is important?

Converts theories to practical in the real world

Enhances your practical knowledge to meet industry requirements

Improves your teamwork

Helps to improve your research abilities

Helps to identify Benchmark your level with the industry standards

Learning Outcomes

At the end of the module student will be able to:

- LO1: Provide a **creative** and **innovative** solution to **an open-ended** complex problem
- LO2: Apply the **key pillars** of the domain of computing
- LO3: Apply **project management methodologies** to provide a solution to an open-ended problem using appropriate techniques, tools, best practices, and standards, in the ethical, security, social, legal and professional context.
- LO4: **Communicate effectively** with a wide range of audiences including both technical and non-technical stakeholders.
- LO5: Assess the **commercial viability** of a project.

Forming Groups...

Not more than 4 members in a Group

Irrespective of gender but from the same stream of study

With common interest in the Project

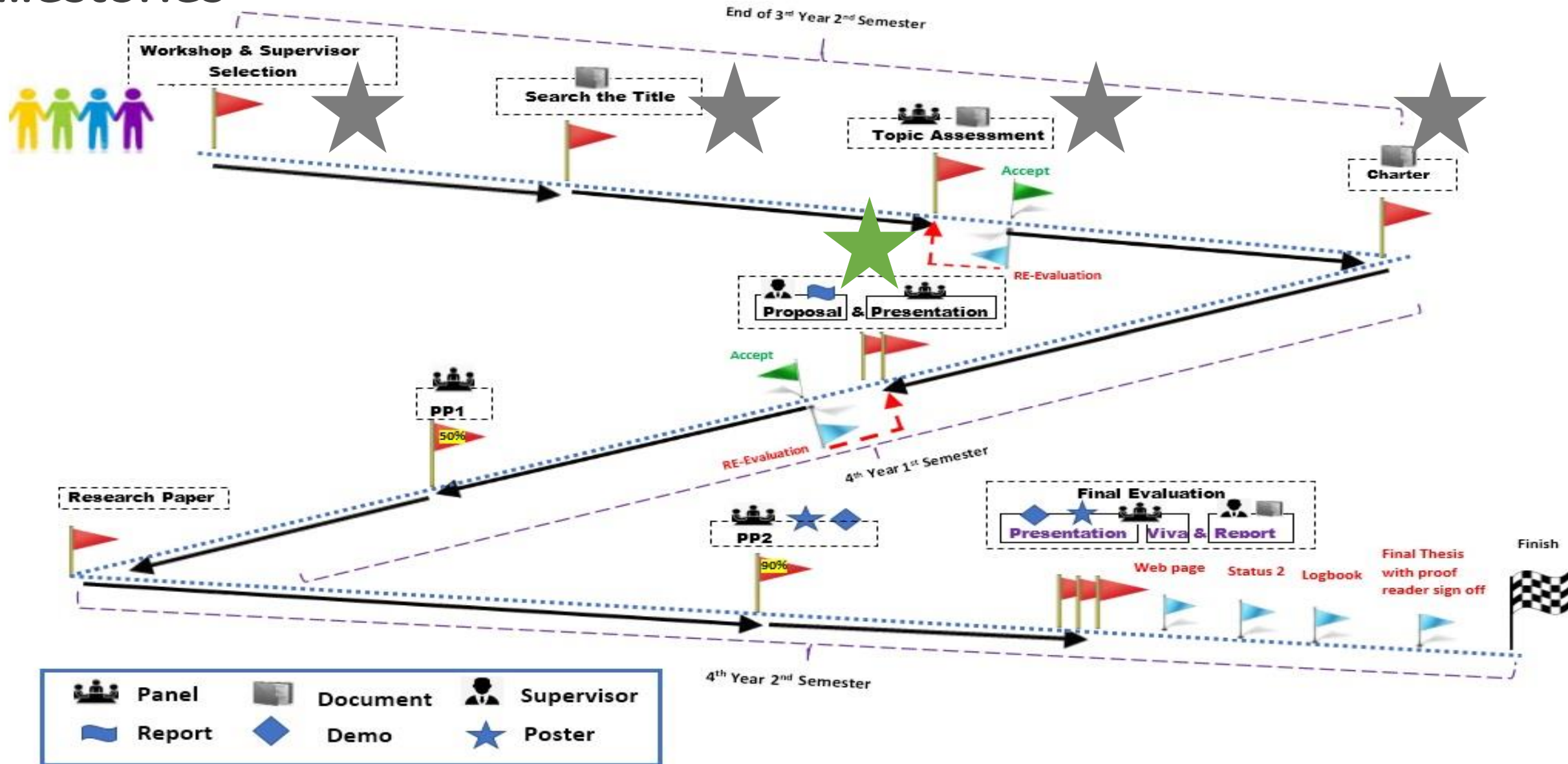
With diversity of backgrounds and ideas

Beware, members you like, may not share same interest in the Project

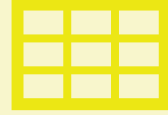
Milestones



Milestones



Assessments



Supervisor Level Assessments

Proposal report, Project status document 1 & 2 and Research logbook, Final Report



Panel Level Assessments



Proposal Presentation, Progress Presentation 1 & 2, Research paper, Final presentation & Viva

Tentative Timeline



Assessment Schedule

Proposal Presentation	- 6%
Proposal Report	- 6%
Progress Presentation-1(50%)	- 15%
Progress Presentation-2 (90%)	- 18%
Final Report	- 15%
Final Report (group)	- 4%
Final presentation	- 10%
Viva	- 10%
Website	- 2%
Research paper	- 10%
Progress Reports	- 2%
Logbook	- 2%

Ways of communication

...



Ways of communication



Mainly the Courseweb.



Can meet any RP team member with a prior appointment.



Can directly contact the LIC/Coordinator by writing to

All information posted to the course web and Students are required to check it regularly.

Jayantha Amararachchi
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Course web page: **Research Project (Comprehensive Design and Analysis Project) - IT4010 [2025/JUL]**
Enrollment Key : RP24-25J

Modes of evaluation



PANEL-BASED



SUPERVISOR-BASED



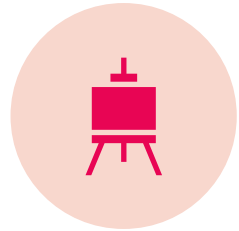
DOCUMENT-BASED



DEMONSTRATIONS



RESEARCH PAPER



POSTER

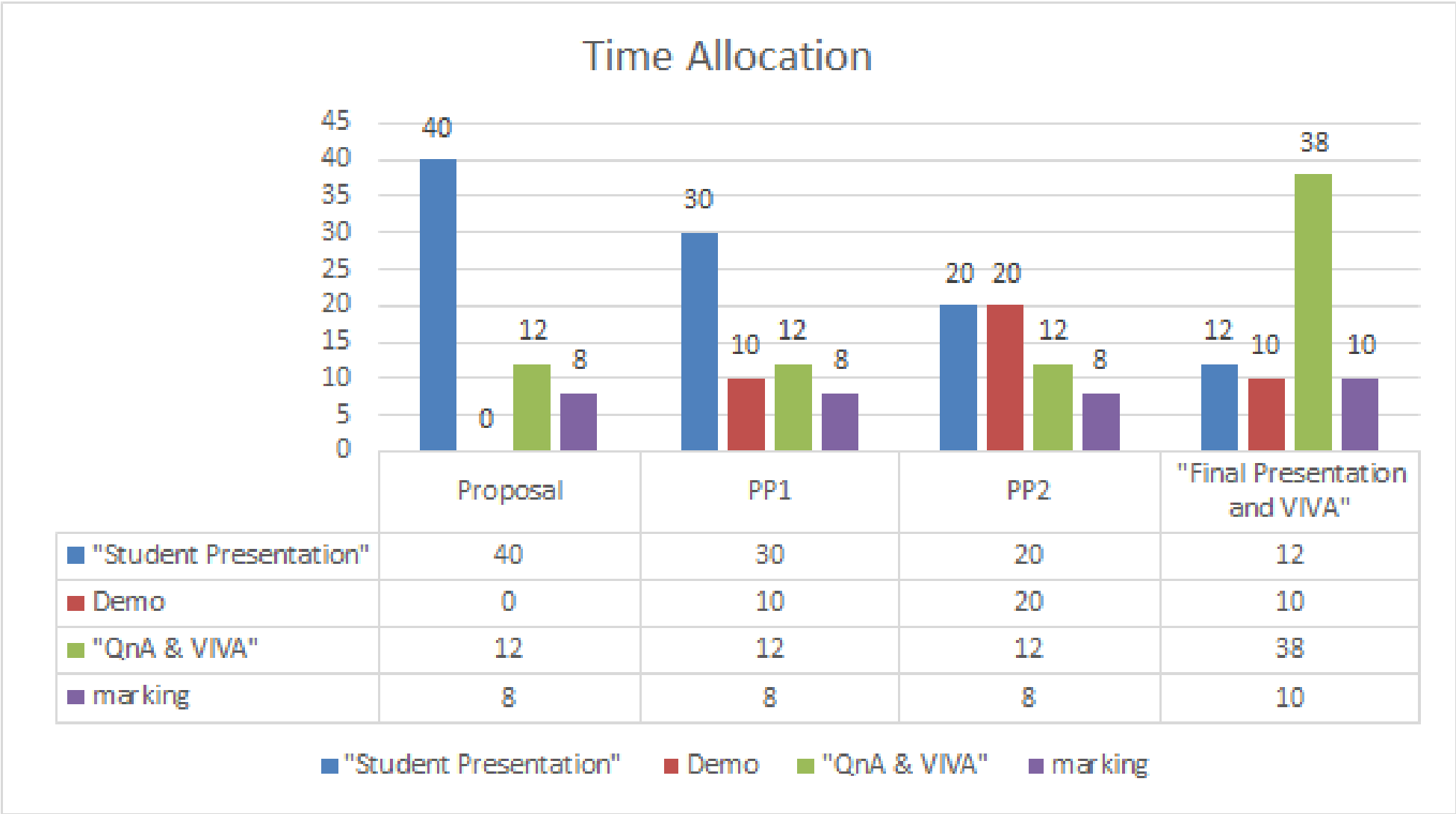


INDIVIDUAL
VIVAS

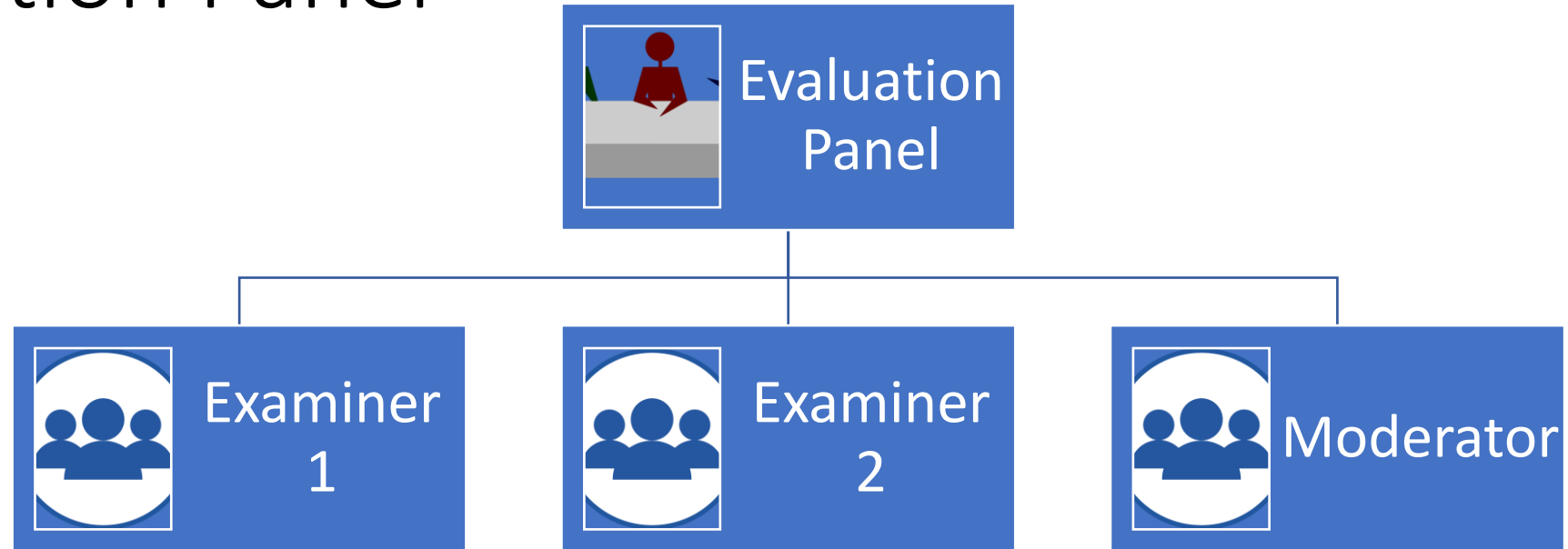


INDIVIDUAL
PRESENTATIONS

Time Allocation



Evaluation Panel



- They use the same marking rubric (available in the Course web) to assess all groups
- Your supervisor is not a member of the panel

Composition of a Presentation panel

Examiner 1

- Provide Individual marks
- Asses the project

Examiner 2

- Provide individual marks
- Asses the project

Moderator

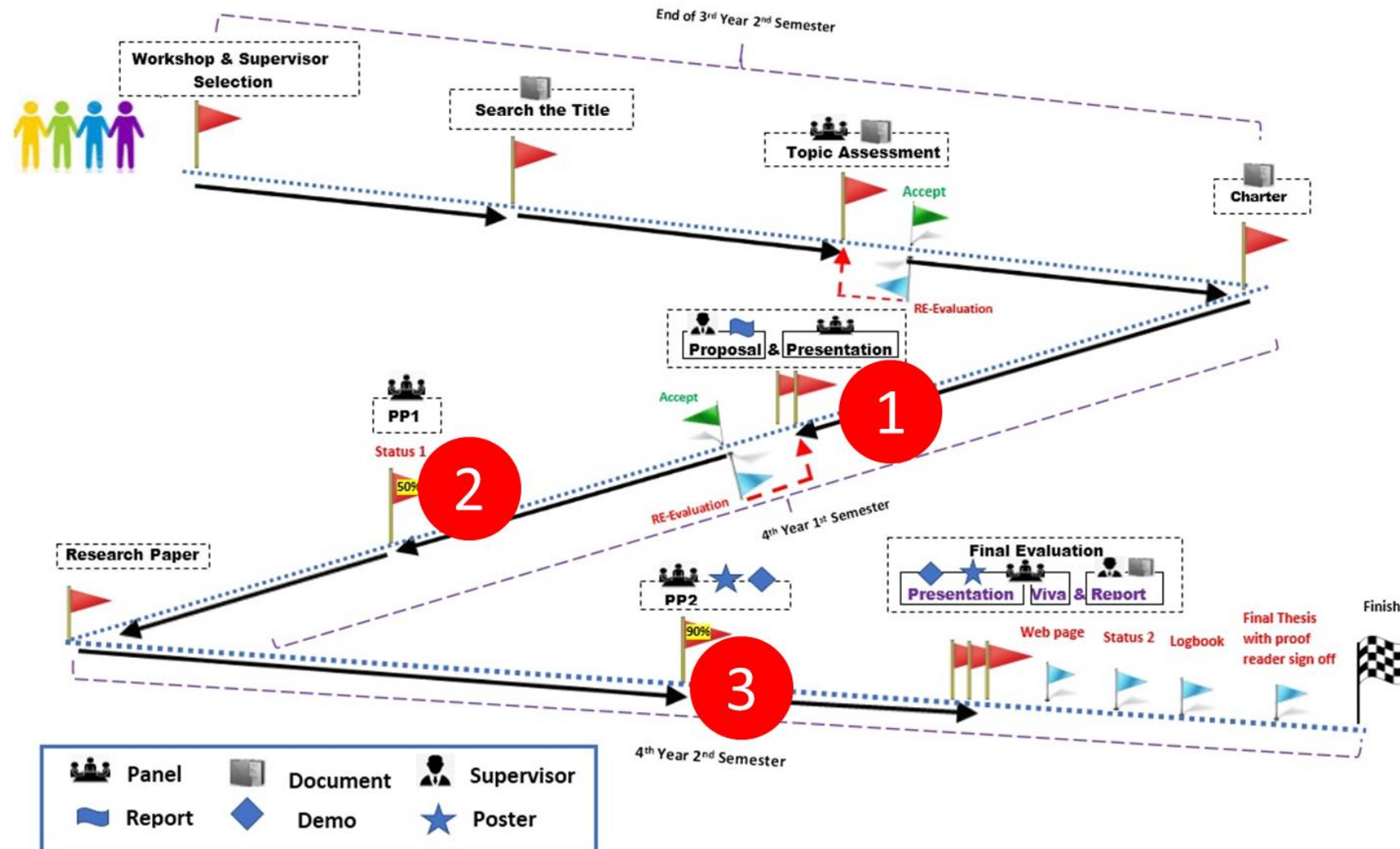
- Moderate the marks
- Lead the panel
- Incase of the supervisor is one of the panel members, the supervisors will be completely **silent member**.

How marks are given in each assignment

- Predefined rubrics are used.
- All rubrics will be available in your allocated cloud space.
- Examiner 1 and Examiner 2 give individual marks, and the marks will be moderated.
- **Each Student will be evaluated individually.**

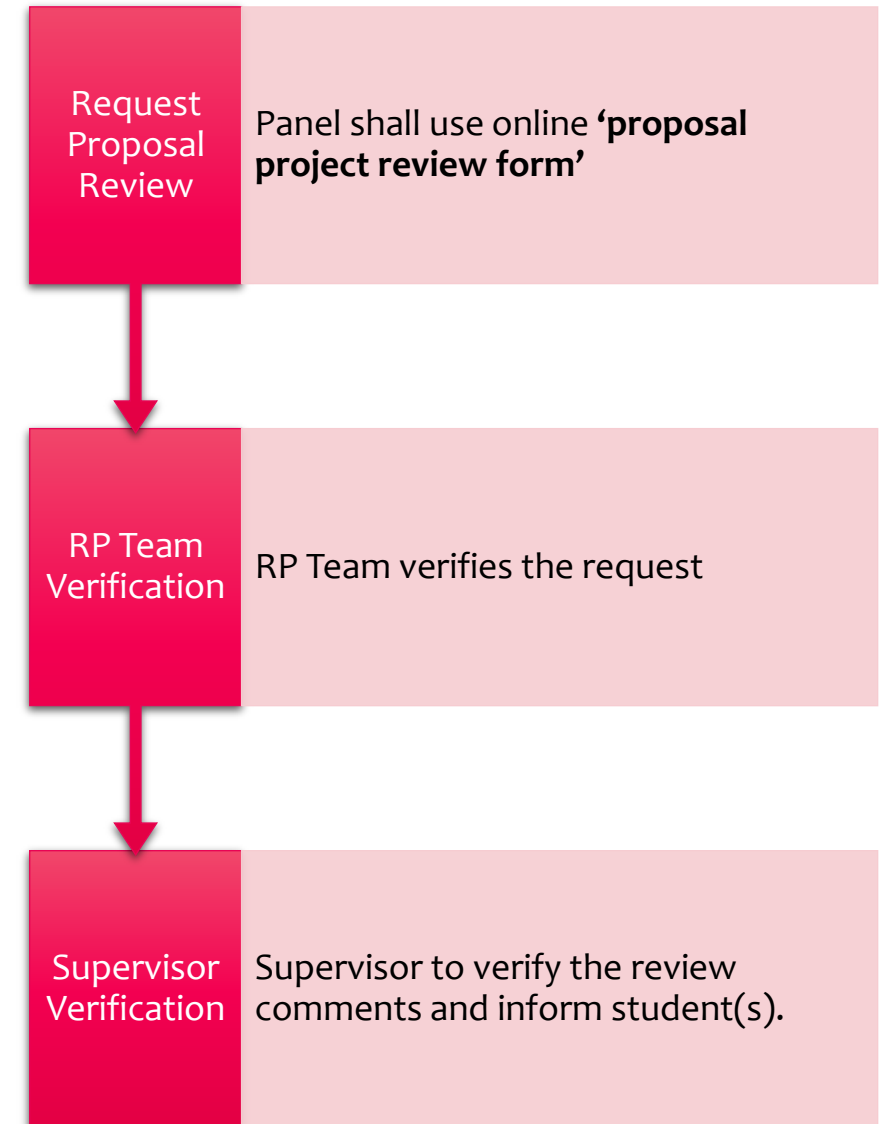
RP (IT4010) - Proposal Presentation Mark Allocation Sheet [Total contribution]						
Student ID:						
Sub Assessment Criteria	Excellent (100 - 75)	Good (74 - 60)	Average (59 - 40)	Below Avg. (39 - 0)	Marks [Out of 100]	
Proven gap/Creative Solution [Based on LO1] - [35%]						
Knowledge gap (Problem) with novel and creative solution 70%	Clearly argued the existence of knowledge gap using credible, multiple sources. Excellent justification for novelty and creativity.	Sufficiently argued the existence of knowledge gap using limited sources. Good justification for novelty and creativity.	Moderately argued the knowledge gap with very few or no sources. Average justification for novelty and creativity.	Knowledge gap is not clearly identified. Poor or No justification for novelty and creativity.		
2. Compare existing systems and related work 30%	Extensively compared the research problem in the present context of the research domain / with similar products and services.	Sufficiently compared the research problem in the present context of the research domain / with similar products and services.	Moderately compared the research problem in the present context of the research domain / with similar products and services.	Poorly compared or No comparison has been done		
Capability in applying the knowledge in particular stream [Based on LO2] - [30%]						
Application of key pillars in the specialized area of knowledge 50%	Clearly identified the most appropriate research area (Machine learning, Image processing, Data Science etc.)	Satisfactorily identified the research area.	Vaguely identified. But appropriateness is doubtful.	Indistinctly identified or Not identified.		
Application of technologies in the relevant key pillar/area 50%	Demonstrated full awareness of technologies in the relevant area and a critical evaluation of technologies proving selection of the best technology/s.	Adequate awareness of technologies to be used and a good evaluation of technologies proving selection of the best technologies.	Moderate awareness of technologies to be used.	Poor or Zero awareness of technologies to be used.		

RP Proposal Review & Warning Letter Procedure

























1. Issuing Warning Letters during Proposal Review Procedure

- During the Panel Evaluation an online form will be made available to the panel to initiate the process.
- RP Team will independently verify the review request and communicate to the supervisor.
- Supervisor will verify and inform respective student(s).



How to submit the project deliverables

Upload the Information to the RP Cloud Store

Files > 2020 REGULAR > 2020-001-Students 					
 Name ▾	Modified ▾	Modified By ▾	File size ▾	Sharing	
 1. Project Proposal	February 7	CDAP SLIIT	2 items	 Shared	
 2. Status Document 1	February 7	CDAP SLIIT	2 items	 Shared	
 3. Progress Presentation - 1	February 7	CDAP SLIIT	1 item	 Shared	
 4. Research Paper	February 7	CDAP SLIIT	2 items	 Shared	
 5. Progress Presentation - 2	February 7	CDAP SLIIT	2 items	 Shared	
 6. Final Report & Presentation	February 7	CDAP SLIIT	2 items	 Shared	
 7. Status Document 2	February 7	CDAP SLIIT	0 items	 Shared	
 8. Website	February 7	CDAP SLIIT	0 items	 Shared	
 Marking Schemes	February 7	CDAP SLIIT	8 items	 Shared	
 Project Registration Documents	February 7	CDAP SLIIT	5 items	 Shared	

Projects should be registered with “my.sliit.lk” accounts

Weekly Workshops

The students must participate the RP workshops.

There will be special sessions organized by the RP team as a help to the project deliverables.

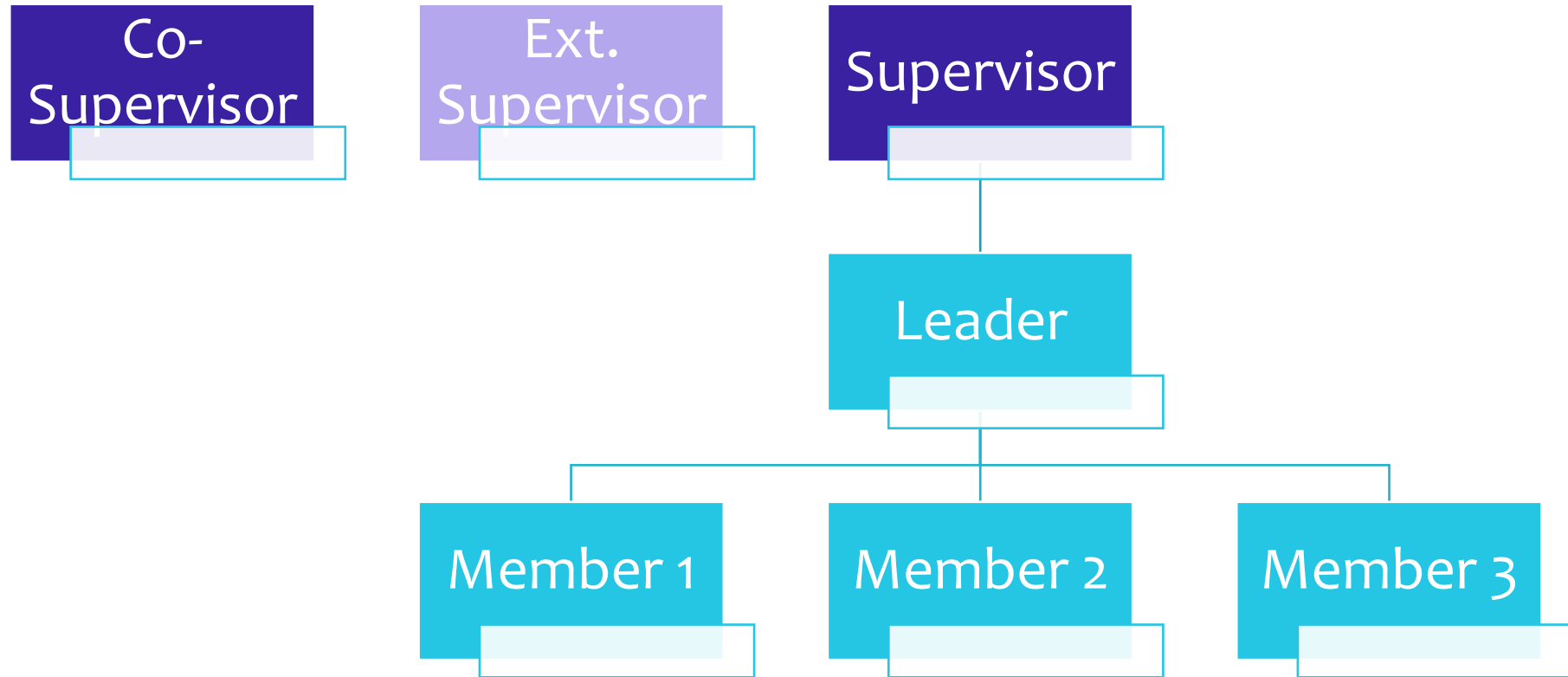
Individual LogBook report should maintain and enter details daily.

Project management tools that should use

- Redmine
- GitLab
- Slack
- Microsoft O365 Teams and the Project planner
- Any other....
- Logbook

Action	Responsibility	Date and Time
Form your Project Group and find a supervisor	Students	open
Online Project Group Registration	Students	19 April 2024
Publish temporary Project IDs through the course web	RP Team	9 May 2024
Upload Supervisor Signed Project charter Forms (online)	Students	24 May 2024
Project registration and creation of main DB	RP Team	15 July 2024

A Project Group



FoC Research Groups

- Every staff member belong to a Research Group as well as an assessment panel.
- A group of students must align with a supervisor who belongs to the same stream and the research area.
- The panel of experts for oral evaluations will also assign based on the selected research group

In the Topic Assessment, you will get a result as follows:

Acceptance/ Rejection	Correction State	
	Minor Correction	Major Corrections
Accepted	You can continue to the charter by addressing the comments	You can continue to the charter with the consultation with your supervisor
Resubmit	resubmit the topic assessment form (with the scan copy of old one) to the cloud drive.	You may consult your even supervisor (and go for a new topic.)
Rejected	You MUST re-submit with a new topic	

Students Secured So Far...

- NBQSA bronze award in 2004
- NBQSA merit award in 2006
- **NBQSA Gold, Silver & Merit awards in 2007**
- Microsoft awards in 2007
- **APICTA Gold award in 2007 (Held in Singapore)**
- Imagine cup Silver award in 2007
- **NBQSA Gold & Merit awards in 2008**
- Microsoft awards in 2008
- **APICTA 2nd place in 2008 (Held in Indonesia)**
- **ISACA Gold awards in 2008**
- Imagine Cup Silver award in 2008
- **Imagine Cup Gold award in 2009**
- NBQSA 4 Merit awards in 2009
- NBQSA Silver & 2 Merit awards in 2010
- NBQSA Silver & other 6 awards in 2011
- NBQSA 2 Merit awards in 2012
- **NBQSA Gold & Silver awards in 2013**
- **NBQSA Gold & Silver awards in 2013**
- APICTA Merit award in 2013 (Held in Hong Kong)
- **NBQSA Gold, Bronze and Merit awards in 2014**
- APICTA Merit awards in 2014 (Held in Indonesia)
- **e-Swabhimani Gold award in 2014**
- NBQSA Silver and two Merit awards in 2015
- **NBQSA Gold, Silver and Merit Awards in 2016**
- **NBQSA Gold, Silver and Merit Awards in 2017**
- NBQSA BRONZE and 6 Merit Awards in 2018
- **SLIoT Challenge Gold Award**
- **NBQSA 2019 Silver for Business Category and Bronze for Technological Category and 2 merit awards**
- **Merit award University of Moratuwa IEEE EMBS Student Branch Chapter, 2019**
- **Champions, IEEE WIE Sri Lanka Section**
- **Wining Circle NBQSA 2020**
- **Winer e-Swabhimani 2020 Youth Award**
- **Winer e-Swabhimani 2020 Health & well-being**
- **Wining Circle NBQSA 2021**
- **Wining Circle e-Swabhimani 2021**



World Summit Award 2020



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Best of the Best



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<https://forms.office.com/r/Nab0KRC9Hq?origin=lprLink>

25th March 2024

A close-up photograph of a person's hand, wearing a white button-down shirt, pointing their index finger towards the right. The background is blurred, showing more of the shirt and a hint of a desk or table.

**Mark your
Attendance**



Q & A



What do you need to do...?



Form into a group and register



Select a research topic and a supervisor from the same research domain



Do the literature survey in your research area



Get the supervisors' approval for your research project



Organise the project charter and submit on time.