BITS 3533 Wireless Network and Mobile Computing Sem 1 2022/2023

Project (15%)

<u>Instruction</u>

Work in a group of five or six.

Develop a smart/ IoT application based on the following requirement:

- The application should use raspberry pi
- The application should have considered 3-layer IoT (physical, network, application)
- The application should have the following modules
  - Data collection from a sensor
  - The collected data is sent to user application (Telegram/Whatsapp/Dashboard/ Blynk etc.)
  - Notification module during anomaly case
  - Added value: Controlling the application from anywhere
- The project needs to be submitted together via ulearn with the following documents
  - Report (Introduction, problem background, objective, development steps, conclusion). In the report, member roles need to be highlighted.
  - Presentation Slide
  - 5-7 minutes Demo Video (introduction, problem to solve, how it works, impact to community)
- Prototype demo during the presentation

<u>Milestone</u>

<u>Week</u>	<u>Description</u>
<u>9</u>	<u>Proposal discussion</u>
<u>10</u>	<u>Proposal submission -5%</u>
<u>11</u>	<u>Prototype development and progress evaluation- 20%</u>
<u>12</u>	<u>Presentation – 75% (video, presentation)</u>

<u>Submission dateline:</u>

2 January 2023