## **VEXcode VR Lab Schedule**

## **Unit A-1: Introduction to VEXcode VR Programming**

- 1. VEXcode VR environment (web-based, https://vr.vex.com/), blocks panel, project panel
- 2. Simple programming example (follow square path), run program
- 3. Introduction to algorithm and program
- 4. Explain in details Drivetrain blocks, wait block, and random block. Explain other categories of blocks (briefly)
- 5. Playground, select different playground, coordinates for grid map playground, overhead view (2D), behind robot view (3D), front view (3D), dashboard indicators
- 6. Help button to display help information about each block
- 7. Monitor window (print and variable data), code viewer window (Python code)
- 8. Share your project as a PDF file, save your project on your device, load your saved project from your device

## Unit A-2: Hands-on Practice - VEXcode VR Activities:

- 1) Basketball Drills
- 2) Program the robot to go forward for a **random** number of seconds (between 0 and 5), and then turn a random amount of degrees (between -90 and 90).
- 3) Save the project in both pdf file and vrblocks format.