Stage 1

**Task 0:**  
In this task you will get started by installing the required software. You will install Python, OpenCV and run a test program.   
  
**Task 1:**  
You will learn basic concepts of image processing using Python and OpenCV. You will learn about color and shape based object detection.   
  
**Task 2:**  
You will learn concepts of path planning, involving implementation of shortest path algorithms like Dijkstra's, Greedy, A\*. You will learn to implement these algorithms to solve a given problem. 

Stage 2

In Stage 2 you will start building the Robot for your theme.  
  
**Task 3:**  
You will print the theme arena on a flex sheet and after the release of the theme Rulebook you will build the whole arena on the printed flex sheet as per the Rulebook instructions.   
  
**Task 4:**  
You will have to thoroughly study the theme Rulebook which will have detailed description of the problem statement, arena design, theme rules and scoring parameters. In this task you will have to prepare a detailed document covering your understanding of the theme and your approach towards solving the problem statement. In the document you will also answer some questions pertaining to the theme.   
  
**Task 5:**  
You will submit the video demo and well documented code of your theme implementation.