Class 1-36 Foundation

Basic knowledge of Robots + Complete LED lighting with Code + PCB desinging

1. Topic – History of Robotics
   Skill – Deep knowledge about robot invention
2. Topic – Basic knowledge of robotics
   Skill – Basic knowledge about robot use
3. Topic – Uses and benefits of robot
   Skill – Use of robot in different industry
4. Topic – Component of robotics and basic of the breadboard
   Skill – Material & component knowledge
5. Topic – Uses and circuit design on the breadboard
   Skill – Process of designing the circuit
6. Topic – 5V battery circuit design of the breadboard
   Skill – Process of designing 5V battery circuit
7. Topic – 9V battery connection in the breadboard
   Skill – Process of designing 9V battery circuit
8. Topic – LED light experiment with breadboard
   Skill – LED light designing
9. Topic – LED legit circuit design and complete lighting
   Skill – Complete process about designing LED light circuit.
10. Topic – Basic knowledge of coding for robotics
    Skill – Use of codes for robotics
11. Topic – Breadboard circuit design intermediate level
    Skill – Process to design breadboard circuit
12. Topic – History and theory of PCB
    Skill – Deep PCB knowledge
13. Topic – PCB designing
    Skill – Process of PCB designing
14. Topic – PCB circuits working
    Skill – Circuit designing for PCB
15. Topic – Sensors history and work
    Skill – Deep sensor knowledge
16. Topic – Sensors use and designing
    Skill – Process of sensor useage in robots

17. Topic – IC history and use
    Skill – Deep IC knowledge
18. Topic – Basics of IC
    Skill – Process of IC useage in robots

19. Topic – IC uses and implementation in the breadboard
    Skill – Process of IC in breadboard
20. Topic – Heat sink use and implementation in the breadboard
    Skill – Process of IC in breadboard
21. Topic – Basic circuit design for robotic car
    Skill – Process of circuit designing for robots
22. Topic – Assemble of robotic car
    Skill – Assemble any robot with PCB,IC, and sensor
23. Topic – Assemble of robotic car
    Skill – Assemble any robot with PCB,IC, and sensor
24. Topic – Assemble of robotic car
    Skill – Assemble any robot with PCB,IC, and sensor
25. Topic – Assemble of robotic car
    Skill – Assemble any robot with PCB,IC, and sensor
26. Topic – Assemble of robotic car
    Skill – Assemble any robot with PCB,IC, and sensor
27. Topic – Assemble of robotic car
    Skill – Assemble any robot with PCB,IC, and sensor
28. Topic – Assemble of LED board
    Skill – Assemble any LED with circuit, 5V & 9V
29. Topic – Assemble of LED board
    Skill – Assemble any LED with circuit, 5V & 9V
30. Topic – Assemble of LED board
    Skill – Assemble any LED with circuit, 5V & 9V
31. Topic – Assemble of LED board
    Skill – Assemble any LED with circuit, 5V & 9V
32. Topic – Assemble of LED board
    Skill – Assemble any LED with circuit, 5V & 9V
33. Topic – Assemble of LED board
    Skill – Assemble any LED with circuit, 5V & 9V
34. Topic – Programming of LED board
    Skill – Deep skill knowledge on how to operate LED board

35. Topic – Name writing on LED board
    Skill – Process of LED designing with names
36. Topic – Working of LED board
    Skill – Deep skill knowledge on how to operate LED board

Class 37-75 Exploration

Line Follower Robot + Automatic gate + Auto theft Alarm + sensor car

37. Topic – Introduction to Robotics
    Skill – Deep knowledge about robotics
38. Topic – Intro of Components
    Skill – Knowledge about components and use in robotics
39. Topic – Intro of DC Motor
    Skill – Knowledge about DC motor and use in robotics
40. Topic – Intro of Stepper Motor
    Skill – Knowledge about stepper motor and use in robotics
41. Topic – Intro of Servo Motor
    Skill – Knowledge about servo motor and use in robotics
42. Topic – Intro of DPDT Switch
    Skill – Knowledge about DPDT switch, and use in robotics
43. Topic – Intro of Wheel
    Skill – Knowledge about wheel and use in robotics
44. Topic – Intro of Caster Wheel
    Skill – Knowledge about caster wheel and use in robotics
45. Topic – Intro of Power Supply
    Skill – Knowledge and use of power supply in robotics
46. Topic – Intro of wired/wireless robot
    Skill – Deep knowledge about wired/wireless robots
47. Topic – Assembly of wired robot
    Skill – Process of assembling wired robot
48. Topic – Assembly of wired robot
    Skill – Process of assembling wired robot
49. Topic – Assembly of wireless robot
    Skill – Process of assembling wireless robot
50. Topic – Assembly of wireless robot
    Skill – Process of assembling wireless robot
51. Topic – Intro of place & Racing robot
    Skill – Deep knowledge of racing robot
52. Topic – Assembly of Place robot
    Skill – Process of assembling place robot
53. Topic – Assembly of Place robot
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54. Topic – Assembly of Place robot
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56. Topic – Assembly of racing robot
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75. Topic – Assembly of racing robot
    Skill – Process of assembling place robot

Class 76-119 Specialization

Robotics Arm + Solar car + Solar system in Robotics + Assemble of Robots

76. Topic – Intro of fighting robot
    Skill – Knowledge about fighting robot
77. Topic – Kit and other things of fighting robot
    Skill – Process of using and setting on fighting robot
78. Topic – Kit and other things of fighting robot
    Skill – Process of using and setting on fighting robot
79. Topic – Assembly of fighting robot
    Skill – Process of assembling fighting robot
80. Topic – Assembly of fighting robot
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81. Topic – Assembly of fighting robot
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87. Topic – Assembly of fighting robot
    Skill – Process of assembling fighting robot
88. Topic – Assembly of fighting robot
    Skill – Process of assembling fighting robot
89. Topic – Different types of the hand mechanism
    Skill – Robotic arm mechanism
90. Topic – Assembly of hand mechanism robot
    Skill – Process of assembling of robotic arm mechanism
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