

Summer Camp Course Content Basic Robotics (Grades 6-12)

	Content	Hours
1.	<ul style="list-style-type: none"> • Introduction to Robotics • Introduction to Arduino IDE • Electric Motors • DC Motors <ul style="list-style-type: none"> ▪ Introduction ▪ Components ▪ Assembly ▪ Coding and Output • Practice <p>Total Hours</p>	<p>1</p> <p>3</p> <p>1</p> <p>7 (Total)</p> <p>1</p> <p>2</p> <p>2</p> <p>2</p> <p>3</p> <p>15</p>
2.	<ul style="list-style-type: none"> • Servo Motor <ul style="list-style-type: none"> ▪ Introduction ▪ Components ▪ Assembly ▪ Coding and Output • Stepper Motor <ul style="list-style-type: none"> ▪ Introduction ▪ Components ▪ Assembly ▪ Coding and Output • Practice <p>Total Hours</p>	<p>7 (Total)</p> <p>1</p> <p>2</p> <p>2</p> <p>2</p> <p>7(Total)</p> <p>1</p> <p>2</p> <p>2</p> <p>2</p> <p>1</p> <p>15</p>
3.	<ul style="list-style-type: none"> • Robot Car <ul style="list-style-type: none"> ▪ Introduction ▪ Components ▪ Assembly ▪ Coding ▪ Output • Bluetooth Controlled Car <ul style="list-style-type: none"> ▪ Components ▪ Assembly ▪ Coding ▪ Output <p>Total Hours</p>	<p>8 (Total)</p> <p>1</p> <p>2</p> <p>2</p> <p>1</p> <p>1</p> <p>7(Total)</p> <p>1</p> <p>2</p> <p>2</p> <p>2</p> <p>15</p>

4.	<ul style="list-style-type: none"> • Line Follower Robot <ul style="list-style-type: none"> ▪ Components ▪ Assembly ▪ Coding ▪ Output • Practice 	8(Total) 2 2 2 2 7 15
	Total Hours	60

