

Course Syllabus for Next-Gen Engagement Program – Batch II

Course Title: JavaScript ES6 Fundamentals

Timeline: July 28 – August 31, 2025 (5 weeks)

In-class hours: 3h/week (15h in total)

Prepared by: NEXT-GEN Engagement Team

1. Course description

Welcome to **JavaScript ES6 Fundamentals**!

This course introduces you to modern JavaScript, focusing on ES6 features that have transformed the way we write JavaScript. You will begin with the basics and progress to mastering functions, destructuring, spread/rest operators, and key array methods through hands-on examples and weekly projects.

2. Course Learning Outcomes

By the end of the course, you should gain the following outcomes:

<i>Knowledge</i>	
<ul style="list-style-type: none"> - Understand JavaScript basic and ES6 syntax - Describe and apply core ES6 features: arrow functions, destructuring, rest/spread, and array methods 	
<i>Skills</i>	
<ul style="list-style-type: none"> - Convert code from languages C to JavaScript - Use modern JavaScript to write clean and efficient code 	
<i>Attitudes</i>	
<ul style="list-style-type: none"> - Encourage clean coding practices. - Daily practice 	

3. Course sessions

What we will go through each week

W1: Introduction to JavaScript + Converting C to JS		
S1	Learning	Introduction: <ul style="list-style-type: none"> • Variable • Types • Operator

		<ul style="list-style-type: none"> • Array • Object Convert C To JS <ul style="list-style-type: none"> • Control statement • Loop
S2	Practice	Practice <ul style="list-style-type: none"> • Lab • Mini quiz • Homework
W2: Function and intro to ES6 + intro to Arrow function		
S1	Learning	Function <ul style="list-style-type: none"> • Return + Parameter • Return without parameter • No return but accept parameter • No return no parameter Intro To ES6 <ul style="list-style-type: none"> • What is ES6? • Why ES6? Arrow Function <ul style="list-style-type: none"> • Default Parameter
S2	Practice	Practice <ul style="list-style-type: none"> • Lab • Mini quiz • Homework
W3: Arrow function + destructuring Assignment		
S1	Learning	Review Arrow Function Destructuring Assignment <ul style="list-style-type: none"> • Array destructuring • Object destructuring
S2	Practice	Practice <ul style="list-style-type: none"> • Lab • Mini quiz • Homework
W4: Rest and Spread Operators		
S1	Learning	Rest and Spread Operator
S2	Practice	Practice <ul style="list-style-type: none"> • Lab

		<ul style="list-style-type: none"> • Mini quiz • Homework
W5: Array methods: Find, Map, Filter, ForEach		
S1	Learning	Array Method <ul style="list-style-type: none"> • Find • Map • Filter • ForEach
S2	Practice	Practice <ul style="list-style-type: none"> • Lab • Mini quiz • Homework

** Quiz: Trainer can design their own quiz (Kahoot, Quizzes, etc.)

** This subject to be changed according to each class

References:

freeCodeCamp.org

[Code With Bubb](#)