Dubai International Private School (Al-Quoz)

DIPS, in partnership with parents and community, strives to ensure all students are digitally literate, lifelong learners, productive citizens and nurture their well-being in an inclusive learning environment.

"Empowering Minds, Inspiring Hearts, Shaping the Future"

"تمكين العقول، إلهام القلوب، تشكيل المستقبل"

NEASC Accredited

Semester: 2   **2025 – 2026**

Grade Level	11	Subject: Computer Science	
Teacher(s) Name	**Mr. Bassel Shmiet**		
Textbook			

Week #	Dates		Lesson Title / Pages	CCSS / NGSS Code / MOE
20	Feb 2nd	Feb 6th	• Numbering Systems and Conversions Converting numbers from Decimal to Binary	2-AP-11 Create clearly named variables that represent different data types and perform operations on their values.
21	Feb 9th	Feb 13th	• Converting numbers from Decimal to Octal • Converting numbers from Decimal to Hexadecimal Converting numbers from Binary to Octal & Hexadecimal	2-AP-11 Create clearly named variables that represent different data types and perform operations on their values.
22	Feb 16th	Feb 20th	• Variables in Python • Mathematical Operators in Python Data Types in Python	2-AP-11 Create clearly named variables that represent different data types and perform operations on their values.
23	Feb 23rd	Feb 27th	• Use of Python operators • Solve exercises on Logical operators. Use of increment and decrement operators	2-AP-11 Create clearly named variables that represent different data types and perform operations on their values.

24	Mar 2nd	Mar 6th	• Python Conditions and If statements o Elif Else	2-AP-10 Use flowcharts and/or pseudocode to address complex problems as algorithms.
25	Mar 9th	Mar 13th	Nested If in Python	2-AP-12 Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.
26	Mar 30th	Apr 3rd	• Python Strings Assign String to a Variable	2-AP-12 Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.
27	Apr 6th	Apr 10th	• Python While Loops o The break Statement. The continue Statement	2-AP-11 Create clearly named variables that represent different data types and perform operations on their values.
28	Apr 13th	Apr 17th **End of 3d Quarter**	• Python For Loops Looping Through a String	2-AP-12 Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.
29	Apr 20th	Apr 24th	• The range() Function Nested Loops	2-AP-12 Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.
30	Apr 27th	May 1st	• Python Functions • Creating a Function Calling a Function	2-AP-12 Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.

31	May 4th	May 8th	• Parameters Return Values	2-AP-12 Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.
32	May 11th	May 15th Grade 12 Final Exams Start May 13	• Python Arrays • Access the Elements of an Array The Length of an Array	2-AP-12 Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.
33	May 18th	May 22nd	• Looping Array Elements • Adding Array Elements Removing Array Elements	2-AP-12 Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.

34	May 25th	May 29th	• More Array Methods
			  o Insert
			  o Replace
			  o Count
			Pop
				2-AP-12
				
				Design and iteratively develop programs that combine control structures, including nested loops and compound conditionals.

35	Jun 1st	Jun 5th	• Numbering Systems and Conversions Converting numbers from Decimal to Binary	2-AP-11 Create clearly named variables that represent different data types and perform operations on their values.
36	Jun 8th	Jun 12th	Jun 11 - Jun 22: Final Exams for Grades 4-11.	
37	Jun 15th	Jun 19th	Jun 11 - Jun 22: Final Exams for Grades 4-11.	
38	Jun 22nd	Jun 26th	Jun 22: Make-up Exam for absent students.	
39	Jun 29th	Jul 3rd	June 30 - July 2: Make-up Exam for failing students.	