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### Week 1:

CSE231: Introduction to Logic Design, Number Systems in Digital Systems

CSE225: Introduction to Data structure and classes, ADT Unsorted List (Array based)

MAT130: Integration by parts

ECO104: Introduction to Macroeconomics

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### Week 2:

CSE231: Boolean Logic, KMaps

CSE225: ADT Unsorted List (Array based), ADT Sorted List (Array based)

MAT130: Trigonometric integrals

ECO104: National Income Accounting – Concepts

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### Week 3:

CSE231: Simplification of Boolean Expressions, Combinational Circuit Design

CSE225: ADT Unsorted List (Linked List), ADT Sorted List (Linked List)

MAT130: Trigonometric integrals

ECO104: National Income Accounting – Practice

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### Week 4:

CSE231: Adders and Subtractors, Decoders and Encoders

CSE225: ADT Stack (Array & Linked List), ADT Queue (Array & Linked List)

MAT130: Trigonometric substitution

ECO104: Unemployment

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### Week 5:

CSE231: Multiplexers, FlipFlops

CSE225: Programming with Recursion, Binary Search Tree

MAT130: Integrating rational functions by partial fractions

ECO104: Inflation

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### Week 6:

CSE231: Sequential Circuit Design, Counters

CSE225: Binary Search Tree

MAT130: Integrating rational functions by partial fractions

ECO104: Determination of Output and Income

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Week 7:

CSE231: Shift Registers, RAM and ROM

CSE225: Binary Search Tree, Heaps

MAT130: Hyperbolic functions and hanging cables

ECO104: Equilibrium in the Goods Market

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Week 8:

CSE231: Programmable Logic Devices, State Machines

CSE225: Priority Queue, Huffman Coding, Graphs

MAT130: Hyperbolic functions and hanging cables

ECO104: Money and Banking – Basics

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Week 9:

CSE231: Verilog HDL Introduction, Verilog HDL for Combinational Circuits

CSE225: Graphs, BFS, Graphs, DFS

MAT130: Area between two curves

ECO104: Money and Banking – Central Bank

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Week 10:

CSE231: Verilog HDL for Sequential Circuits, Testbenches

CSE225: Sorting Algorithms, Sorting Algorithms

MAT130: Volumes by slicing disks

ECO104: Fiscal Policy and Government Budget

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Week 11:

CSE231: Testbenches

CSE225: Hashing

MAT130: Volumes by slicing washers

ECO104: Trade and Exchange Rates

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**Week 12:**

MAT130: Length of a plane curves

ECO104: Open Economy Macroeconomics

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**Week 13:**

ECO104: Macroeconomic Challenges and Review

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