

DAILY ASSESSMENT FORMAT

Date:	01/06/2020	Name:	Neha T
Course:	Network Theory	USN:	4AL18EC035
Topic:	1.Network Terminology 2.Basic circuit analysis 3.Different types of matrix & its application	Semester & Section:	4 th Sem 'A' Section
Github Repository:	Neha-T		

FORENOON SESSION

The screenshot shows a YouTube video player with a video titled "Lecture # 3 Formation of tie-set and cut-set matrix and its application in KVL and KCL". The video content displays handwritten notes on a whiteboard. The notes include a graph with 5 nodes and 5 branches, a tie-set matrix (fundamental loop matrix) derived from it, and a cut-set matrix. The tie-set matrix is a 2x5 matrix with rows labeled I_1 and I_2 . The cut-set matrix is a 2x5 matrix with rows labeled V_1 and V_2 . The video also shows the calculation of the tie-set matrix using the formula $8 - N + 1 = 5 - 4 + 1 = 2$. The video has 26,949 views and was uploaded on 02-Apr-2019.

REPORT

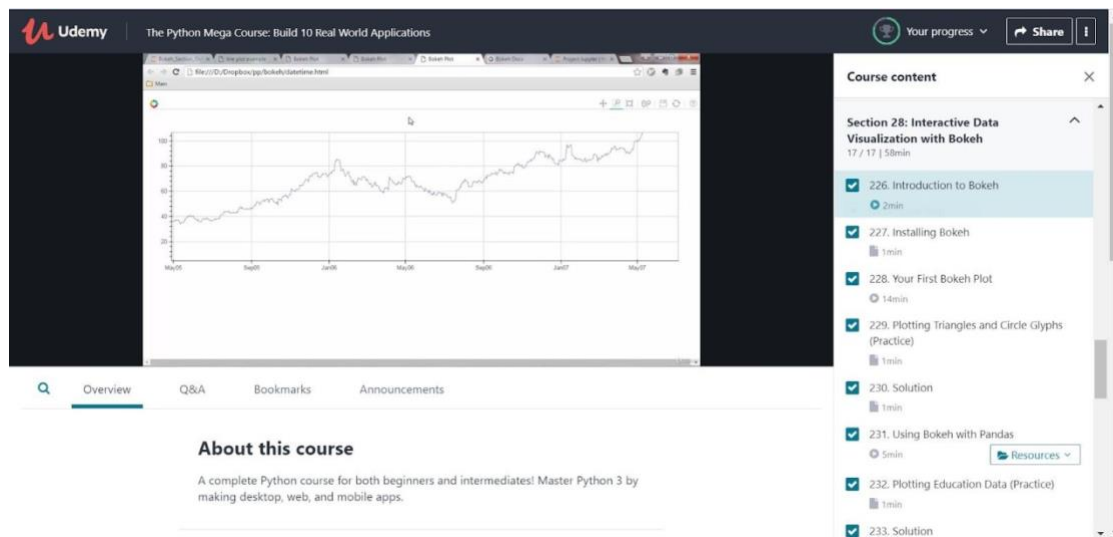
- Network terminology
 - Nodes
 - Branches
 - Loops or meshes
 - Branch currents & mesh currents
 - Node voltages & Junction node voltages
- Basic circuit analysis & network topology

- Overview of analysis
- Serial/parallel reduction
- Voltage/current division
- Ladder circuit
- Network topology is a graphical representation of electric circuits.
- It is useful for analyzing complex electric circuits by converting them into network graphs. Network topology is also called as Graph theory.
- Graph of a network
 - Network graph is simply called as graph.
 - It consists of a set of nodes connected by branches. In graphs, a node is a common point of two or more branches. Sometimes, only a single branch may connect to the node. A branch is a line segment that connects two nodes.
- Incidence matrix
 - An Incidence Matrix represents the graph of a given electric circuit or network. Hence, it is possible to draw the graph of that same electric circuit or network from the incidence matrix.
- Formation of tie-set and cut-set matrix
 - Tie-Set: It is a unique set with respect to a given tree at a connected graph containing on chord and all of the free branches contained in the free path formed between two vertices of the chord.
 - Cut-Set: It is that set of elements or branches of a graph that separated two parts of a network. If any branch of the cut-set is not removed, the network remains connected. The term cut-set is derived from the property designated by the way by which the network can be divided in to two parts.
- Tie-set & cut-set matrix applications in KVL & KCL were also discussed.

AFTERNOON SESSION

Date:	01/06/2020	Name:	Neha T
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Image of the session



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Course content

- 236. Plotting Weather Data (Practice) 1min
- 237. Solution 1min
- 238. Visual Attributes 1min
- 239. Time-series Plots 7min [Resources ▾](#)
- 240. More Visualization Examples with Bokeh 4min
- 241. Plotting Time Intervals of the Motion Detector 14min [Resources ▾](#)
- 242. Hover Tool Implementation 10min

Section 29: Webscraping with Python Beautiful Soup ▾

About this course

A complete Python course for both beginners and intermediates! Master Python 3 by making desktop, web, and mobile apps.

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Course content

- 246. Webscraping Example 15min
- Section 30: Application 7: Scrape Real Estate Property Data from the Web 0 / 8 | 1hr 14min
- Section 31: Application 8: Build a Web-based Financial Graph 0 / 12 | 1hr 40min
- Section 32: Application 9: Build a Data Collector Web App with PostgreSQL ... 0 / 11 | 2hr 47min
- Section 33: Application 10: Project Exercise on Building a Geocoder We... 0 / 4 | 35min
- Section 34: Legacy Exercises 0 / 20 | 0min
- Section 35: Offers for my Other Python Courses 0 / 1 | 1min

About this course

A complete Python course for both beginners and intermediates! Master Python 3 by making desktop, web, and mobile apps.

🔗 Interactive Data Visualization with Bokeh

- Introduction to Bokeh

- ★ Bokeh is a Python interactive visualization library that targets modern web browsers for presentation providing elegant, concise construction of novel graphics with high-performance interactivity over very large or streaming datasets in a quick and easy way.

- ★ Offering both powerful and flexible features to enable very advanced customizations in one hand and simplicity on the other, Bokeh exposes different interface levels to the users: A *low-level* bokeh.models interface that provides the most flexibility to application developers. An *intermediate-level* bokeh.plotting interface that is centered around composing visual glyphs. A *high-level* bokeh.charts interface that can be

used to build complex statistical plots as quickly and as simply as possible. This Quickstart focuses on the `bokeh.plotting` interface

- Installing Bokeh
- First Bokeh Plot
 - ★ Plots are a central concept in Bokeh. They are containers that hold all the various objects (renderers, guides, data, and tools) that comprise the final visualization that is presented to users
- Using Bokeh with Pandas
- Plot properties were also discussed.