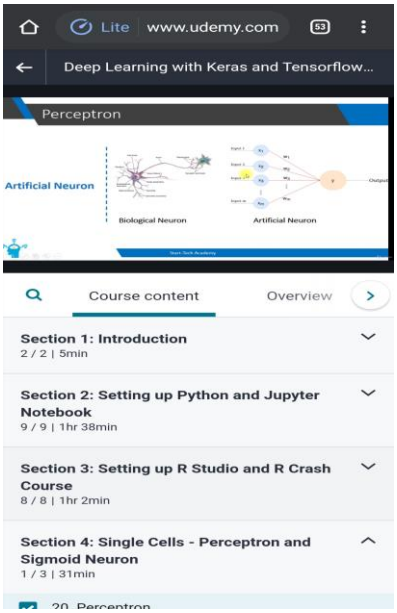
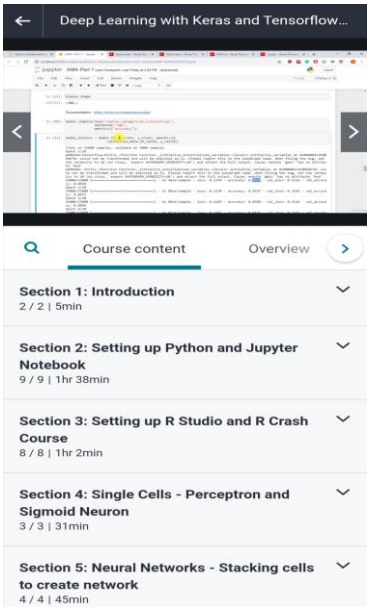
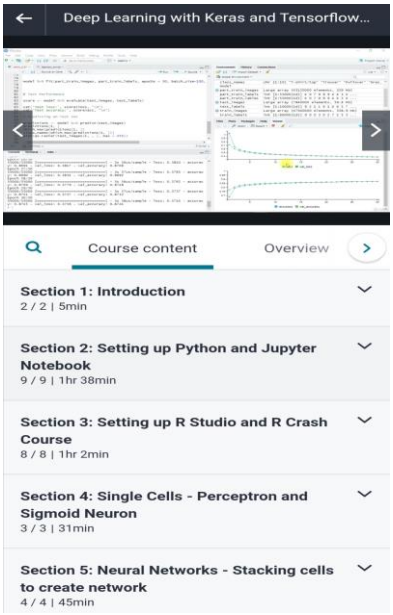
ISE CERTIFICATION COURSE DETAILS			
NAME:	**DHEERAJ SHETTY**	**USN:**	**4AL16IS013**
SEMESTER:	**8**	**MENTOR:**	**MR. SHARAN L PAIS**
COURSE NAME:	**Deep Learning with Keras and Tensorflow in Python & R**	**DATE:**	**21-5-2020**

SCREENSHOT:







BRIEF REPORT: (POINT-WISE)

1). *Working of Perceptron model and activation functions.
*** How to build a small perceptron model using python (single perceptron).**
*** Basic terminologies to stack the single cells to create network of cells.**
***gradient descent algorithm (to find minimum of function) and back propagation and forward propagation algorithm.**

2). *Understanding the use of activation function and how to apply it to the neural network.
***classification hyper parameters, regression hyper parameters and to decide how many neurons aree required for the model.**
***about keras and tensorflow, how to install in python and R and how to use with neural network.**
***Classification problem: creating an image classifier for 10 different categories. (60K images).**
***data normalization to normalize the data dimensions so that they are of approximately the same scale.**

3). *different ways to create ANN and Building the nural network using keras.(python)
***compiling and training the neural network and evaluating performance and predicting using keras. (python)**
***building and training model in R.**
***evaluating and predicting in R.**