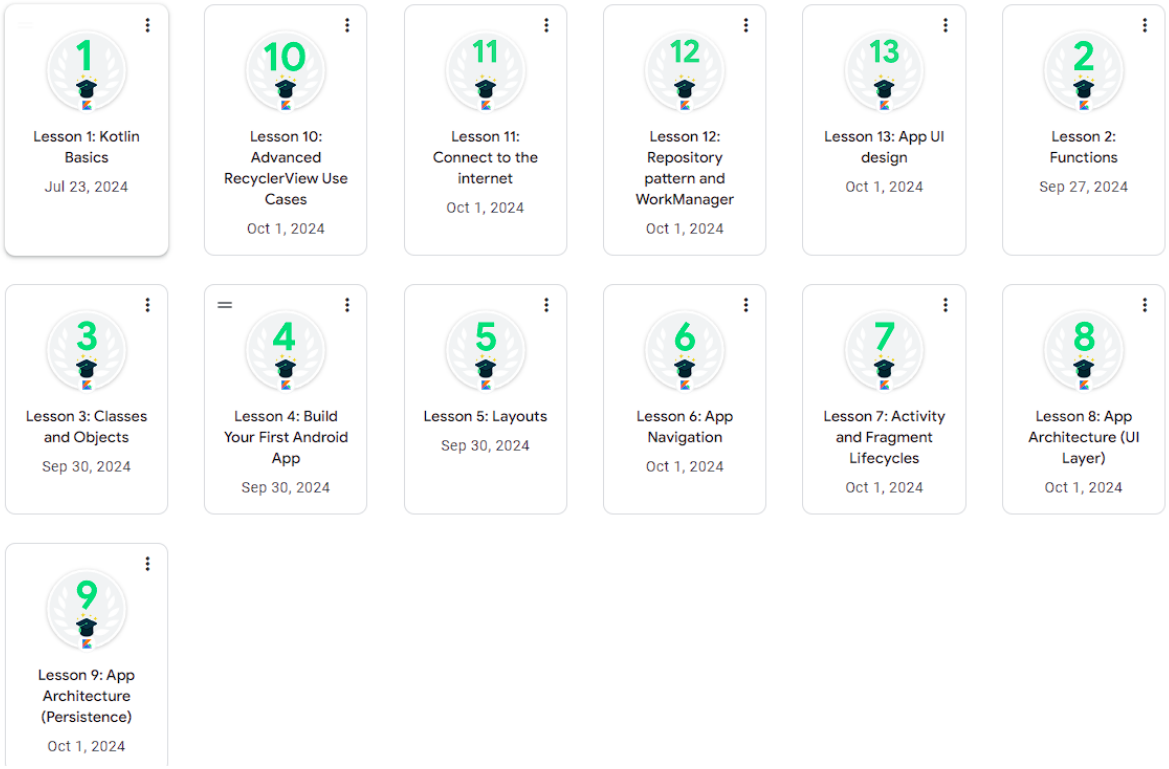
<<Quiz: >>

Continuous Assessment Theory (CAT) - Quiz 1 (CO1 & CO2)	4 Mark
One Quiz (or) All google badge	

<<Google badge with Date:>>



Continuous Assessment Theory (CAT) - Assignment (CO2)	6 Marks
One workshop on a new technology = Installation + Intro + 5 programs (or) 1 app	

<<Technology Title: >>

<<Remarks:>>

<<Project Title: >> FOOD CALORIE ESTIMATOR (CALORIE QUEST)

<Team Number: >> 6

<<Student name:>> Rishik Angara

<<Register Number:>> CB.EN. U4CSE21104

<<Student name:>> BHARAT CHANDRA

<<Register Number:>> CB.EN. U4CSE21111

<<Base paper that supports your proposed project>> [Submitted: Y / N] Y

1. <<Title and DOI of the paper>>

Food Calorie Measurement Using Deep Learning Neural Network:
DOI link: https://ieeexplore.ieee.org/abstract/document/7520547

2. <<Title and DOI of the paper>>

Calorimeter: Food Calorie Estimation using Machine Learning
DOI Link: https://ieeexplore.ieee.org/abstract/document/9397023

3.<<Title and DOI of the paper>>

An Automatic Calorie Estimation System of Food Images on a Smartphone
DOI Link: https://dl.acm.org/doi/abs/10.1145/2986035.2986040

<<Problem you are trying to solve and their significance>> [300 – 500 words only]

The problem to be solved in this project is the development of an accurate and efficient system that can automatically identify different types of food items present in an image and provide their corresponding calorie counts. This system aims to help users easily track their dietary intake by simply taking a photo of their meal, making it especially useful for individuals monitoring their nutrition, such as those managing weight, following specific diets, or monitoring health conditions like diabetes.

<<Dataset used for the Lab evaluation>>

[URL: Food 101 (kaggle.com)]

<<Lab Evaluation 1>>

Continuous Assessment Lab (CAL) - Lab Eval 1 (CO3 & CO4)	10 Marks
Mobile + Tensor lite ML (2 model) + 5 page report = 1 table + 2 figure + 2 graph	

<<Mobile App progress -10%>> [__ marks]

<< Technology relevant with Mobile applications lab eval: 1 table>> [__ marks]

<<Existing Model: 1 figure>> [__ marks]

<<Experiment: Training and Testing>> [__ marks]

<<Results: At least 2 graph with suitable metrics>> [__ marks]

<<Remark>>

<<Document submitted / uploaded>>

<<Lab Evaluation 2>>

Continuous Assessment Lab (CAL) - Lab Eval 2 (CO3 & CO4)	10 Marks
Mobile + 1 new model + 5-page report = 1 table + 2 figure + 2 graph	

<<Mobile App progress -10 - 50%>> [__ marks]

<< Compare your project to similar (or) relevant app: 1 table>> [__ marks]

<<New Model: 1 figure>> [__ marks]

<<Experiment: Training and Testing>> [__ marks]

<<Results: At least 2 graph with suitable metrics>> [__ marks]

<<Remarks>>

<<Document submitted / uploaded>>

<<Final Evaluation>>

Continuous Assessment Lab (CAL) - Project (CO3 - CO5)	10 Marks
5-page Presentation + 5 page report = 1 table + 2 figure + 2 graph	

<<Mobile App progress -50- 100%>> [__ marks]

<< Compare all the models: 1 table>> [__ marks]

<<Application Architecture: 1 figure>> [__ marks]

<<Experiment: Training and Testing>> [__ marks]

<<Results: At least 2 graph with suitable metrics>> [__ marks]

<<Remarks>>

<<Document submitted / uploaded>>

<<Continuous Lab Evaluation>>

Continuous Assessment Lab (CAL) - Android Certification from Google (CO1 - CO5)	10 Marks
Badges + Certification = FULL marks if certificate submitted on time	

<< Title: >>

<<Remarks: Attach certificate>>

<<Midterm Evaluation>>

Mid Term (CO1- CO4)	20 Marks
20 theory (4 x 5 marks questions) + 30 lab program (2 x 15 marks question = 5 code + 5 output + 5 viva)	

<<End semester Evaluation>>

End Semester Exam (CO1- CO5)	30 Marks
40 theory (4 x 8 marks questions) + 60 lab program (2 x 30 marks question = 10 code + 10 output + 10 viva)	