



Faculty of Computer Studies (FoCS)

Course Name: Data Science for IOT

Course Code: T3569

(UG/PG): PG

Number of Credits: 3

Level: 4

Learning Objectives: This course is aimed to equip students with a skill to analyze the data generated from IOT devices by various deep learning algorithms.

Pre-learning:

Linear algebra

Pedagogy:

Lectures

Class work discussion

Course Outline:

Sr. No.	Topic	Hours
1	Data Collection from digital devices Concept: principles/foundations	5
2	Introducing IOT Analytics IOT data and big data Challenges Life Cycle and techniques	6
3	Data Analytics for IOT Characteristics of IOT generated Data Data Analytic Techniques and Technologies Real time including LSTMs and streaming IoT data visualization Edge analytics	10
4	Implications of Deep Learning for IOT Deep learning and IOT Time Series Data and IOT Time Series Applications Neural Networks for Time Series Predictions	14

5	Case Study	10
	Total	45

Books Recommended:

- 1) Data Science for Internet of Things By Ajit Jaokar
- 2) Internet of Things and Data Analytics Handbook By Hwaiyu Geng

Suggested Evaluation Methods:

- 1) On line Test
- 2) Lab Examination
- 3) Viva
- 4) Assignments

Parallel/Similar courses the existing curriculum:

S.No.	Name of the course	Institute where it was offered
1	Data Science for Internet of Things (IoT) course	Oxford University

Name of Member	Dr. Dhandra	Dr. Naganathan Rengasari	Dr. Rajashree Jain		
Designation	Professor	Professor	Associate Professor		
Org. / Inst.	SICSR	SICSR	SICSR		
Signature					

Name of the Expert:

Signature:

Date: