



# KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

**ERODE – 638 107**

DEPARTMENT OF COMPUTER SCIENCE (UG)

VALUE ADDED COURSE – SYLLABUS

20VCSDC – DEEP LEARNING IN CLOUD

PAPER I: CLOUD AND DEEP LEARNING

**Course Objective:** The objective of the programme is to inculcate knowledge in Cloud Computing and to equip the students in Deep Learning.

<b>UNIT I</b>	<b>Cloud Technology</b>	5 Hours
Introduction to Cloud Computing – Service models – Features of Cloud Computing – Virtualization – Purpose of Virtualization – Cloud Service Providers.		
<b>UNIT II</b>	<b>Implementation aspects of Cloud</b>	4 Hours
Deployment models - Public Cloud – Private Cloud - Community Cloud - Hybrid Cloud – Cloud Computing Issues –Real time implementation of Cloud – Cloud Tools.		
<b>UNIT III</b>	<b>Cloud Applications</b>	4 Hours
Cloud Migration – Advantages of Cloud Computing –Cloud Infrastructure Management – Career opportunities and Scope of Cloud.		
<b>UNIT IV</b>	<b>Deep Learning</b>	4 Hours
Introduction to Machine Learning –Deep Learning – Role and Importance of Deep Learning – Basics of Deep Learning Algorithms – Association of Deep Learning with Cloud.		
<b>UNIT V</b>	<b>Cracking Cloud and Deep Learning Interviews</b>	3 Hours
Cloud Solutions in Deep Learning – Career opportunities and Scope of Deep Learning –Applications of Deep Learning– Cloud Computing interviews – Deep Learning interviews.		
<b>Total Hours</b>		20 Hours



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### Reference Books


1. Dean Jared – ‘Big Data, Data Mining and Machine Learning’ – Wiley Publications – 2014.
2. Geron Aurelien – ‘Machine Learning with Scikit – Learn and Tensorflow’ – Shroff Publications – 2018.
3. Lantz Brett – ‘Machine Learning with R’ – Packet Publications – 2017.
4. Lesmeister Cory – ‘Mastering Machine Learning with R’ – Packet Publications – 2017.

### COURSE OUTCOME:

At the end of the successful completion of this Course, the students will be able to:

- Associate the real time scenarios with Cloud oriented concepts.
- Gain knowledge about the need of Deep Learning with the skills of analytics with the help of Machine Learning techniques.
- Demonstrate the various functionalities related to Deep Learning and to manage the issues of Cloud Computing.
- Carry out the basic level evaluation process on Deep Learning and Cloud.



  
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