

Course Name	Big Data		Course Code	COMP 457		
Credit Hours	3		Contact Hours	Theory	Lab	Total
				2	2	4
Offered as	<input type="checkbox"/> University Requirement <input type="checkbox"/> College Requirement <input checked="" type="checkbox"/> Program Requirement <input checked="" type="checkbox"/> Core <input checked="" type="checkbox"/> Elective <input type="checkbox"/> ITEC <input checked="" type="checkbox"/> COMP <input type="checkbox"/> CNET					
Level	8		Prerequisite	NIL		
Course Description: Today's world is data-driven world. Increasingly, the efficient operation of organizations across sectors relies on the effective use of vast amounts of data. This course provides grounding in basic and advanced analytic methods and an introduction to big data analytics technology and tools, including MapReduce and Hadoop						
Course objectives: <ul style="list-style-type: none"> ◆ Understand the Big Data Platform and its Use cases ◆ Provide an overview of Apache Hadoop ◆ Provide HDFS Concepts and Interfacing with HDFS ◆ Provide hands on Hadoop Eco System ◆ Apply analytics on Structured, Unstructured Data. ◆ Exposure to Data Analytics with R. 						
Grading	<input checked="" type="checkbox"/> Exam 1	10%	<input checked="" type="checkbox"/> Exam 2	10%	<input checked="" type="checkbox"/> Assignment(s)	20%
	<input checked="" type="checkbox"/> Final	40%	<input checked="" type="checkbox"/> Lab	20%	<input type="checkbox"/> Mini Project	
Text Book: <ul style="list-style-type: none"> ◆ Dr. Charles Russell Severance (Author), Sue Blumenberg (Editor), Elliott Hauser (Editor), Aimee Andron (Cover Design), "Python for Everybody: Exploring Data in Python 3", 2nd Edition, ISBN-13: 978-1530051120, 2016. ◆ Seema Acharya, Subhasini Chellappan, First Edition "Big Data Analytics" Wiley 2015. ISBN-13: 978-8126554782 						
References: <ul style="list-style-type: none"> ◆ Michael Berthold, David J. Hand, "Intelligent Data Analysis", Springer, 2007. ◆ Jay Liebowitz, "Big Data and Business Analytics" Auerbach Publications, CRC press (2013) ◆ Anand Rajaraman and Jeffrey David Ullman, "Mining of Massive Datasets", Cambridge University Press, 2012. 						