MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS INSTITUTION – UGC, GOVT. OF INDIA)

MRCET CAMPUS

B.Tech
Aeronautical
Engineering

Department of AERONAUTICAL ENGINEERING

CLOUD COMPUTING

FUNDAMENTALS (R20A0554)

COURSE COVERAGE SUMMARY

Prepared by:
M Thilak Raj
Assistant Professor
Department of ANE
thilakraj@mrcet.ac.in

Department of Aeronautical Engineering

B.TECH III – II SEMESTER - COURSE COVERAGE SUMMARY
SUBJECT: Cloud computing fundamentals (R20A0554)

UNIT	TITLE OF THE UNIT	TOPIC OF THE UNIT	NAME OF THE TEXT BOOK	CHAPTER NO.	PAGE NO.
1	Systems Modeling	System Models for Distributed and Cloud Computing- Cloud Computing in a Nutshell, Layers and Types of Clouds, Desired Features of a Cloud, Infrastructure as a Service Providers, Platform as a Service Providers, Challenges and Risks.	Mastering Cloud Computing- Raj Kumar Buyya, Christian Vecchiola and S.Tanurai Selvi,TMH, 2012.	1 & 2	03-70
2	Virtualization	Virtual machines, Implementation Levels of Virtualization -Virtualization Structures/Tools and Mechanisms-Virtualization of CPU, Memory, and I/O Devices	Mastering Cloud Computing- Raj Kumar Buyya	3	71-109
3	Foundations	Introduction to Cloud Computing-Migrating into a Cloud-The Enterprise Cloud Computing Paradigm.	Cloud Computing- Principles and paradigms Raj Kumar Buyya	2 & 3	43-95
4	Infrastructure as a Service (IAAS) & Platform (PAAS)	Virtual machines provisioning and Migration services-On the Management of Virtual machines for Cloud Infrastructures Aneka— Integration of Private and Public Clouds.	Cloud Computing- Principles and paradigms Raj Kumar Buyya	5 - 10	121-295
5	Software as a Service (SAAS) &Data Security in the Cloud	Google App Engine, An Introduction to the idea of Data Security- The Current State of Data Security in the CloudCloud Computing and Data Security Risk- Cloud Computing and Identity.	Mastering Cloud Computing- Raj Kumar Buyya, Christian Vecchiola and S.Tanurai Selvi,TMH, 2012.	9	315-351