




CLOUD COMPUTING

COURSE PLAN

ACADEMIC YEAR

2015-16


	COURSE PLAN	2015-16
		Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: B.VIJAY KUMAR
 Designation: Assistant Professor
 Department:: IT

COURSE DETAILS

Name Of The Programme::	B.Tech	Batch::	2012
Designation::	IV-B.Tech		
Year	2015-16	Semester	II
Department::	IT		
	CLOUD		
Title of The Subject	COMPUTING	Subject Code	58065
No of Students	112		

	<p style="text-align: center;">COURSE PLAN</p>	2015-16
		Regulation: R12

FACULTY DETAILS:

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 Designation: Assistant Professor
 Department:: IT

1. TARGET

- a) Percentage Pass 100
- b) Percentage I class 100

2. COURSE PLAN

(Please write how you intend to cover the contents: i.e., coverage of Units by lectures, guest lectures, design exercises, solving numerical problems, demonstration of models, model preparation, or by assignments, etc.)

I intending to coverage of Units by lectures, model preparation and assignments.

3. METHOD OF EVALUATION

- 3.1. Continuous Assessment Examinations (CAE 1, CAE 2)
- 3.2. Assignments / Seminars
- 3.3. Mini Projects
- 3.4. Quiz
- 3.5. Term End Examination
- 3.6. Others

4. List out any new topic(s) or any innovation you would like to introduce in teaching the subject in this Semester.

Signature of HOD
 Date:

Signature of Faculty
 Date:



GUIDELINES TO STUDY THE SUBJECT

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: **B.VIJAY KUMAR**

Designation: Assistant Professor

Department:: **IT**

Guidelines for Preparing the Course:

Course Description:

Perl, PHP, TCL/Tk, Python -- they are often-requested skills for employment, but most of us do not have the time to find out what they are all about. In this course, you learn how to use scripting languages for rapid prototyping, web programming, data processing, and application extension. Besides covering traditional programming languages concepts as they apply to scripting (e.g., dynamic typing and scoping), this course looks at new concepts rarely found in traditional languages (e.g., string interpolation, hashes, and polylingual code). Through a series of small projects, you use different languages to achieve programming tasks that highlight the strengths and weaknesses of scripting. As a side effect, you practice teaching yourself new languages.

Course Objectives:

1. The objective of this course is to provide graduate students of B.Tech Information Technology with the comprehensive and in-depth knowledge of Cloud Computing concepts, technologies, architecture and applications by introducing and researching state-of-the-art in Cloud Computing fundamental issues, technologies, applications and implementations.
2. Another objective is to expose the students to frontier areas of Cloud Computing and information technology, while providing sufficient foundations to enable further study and research.

Learning Outcomes:

- 1.
- 2.
3. Understanding of basic CLOUD COMPUTING



COURSE SCHEDULE

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: B.VIJAY KUMAR
Designation: Assistant Professor
Department:: IT

The Schedule for the whole Course / Subject is:: 65 periods

S. No.	Description	Duration (Date)		Total No. of Periods
		From	To	
1.	Introductory Concepts and Overview	14/12/15	23/12/15	7
2.	Overview of Cloud Computing	23/12/15	4/1/16	8
3.	Web services delivered from the cloud	6/1/16	25/1/16	9
4.	Federation Presence, Identity and Privacy in the Cloud	27/1/16	5/2/16	8
5.	Common standards in Cloud computing	15/2/16	27/2/16	8
6.	End user access to cloud computing	29/2/16	12/3/16	8
7.	Virtualization	14/3/16	26/3/16	8
8.	Cloud Computing case studies 2	28/3/16	9/4/16	8

Total No. of Instructional periods available for the course: Hours / Periods


Text Book:

TB1: Cloud computing Implementation, management and Security by John W. Rittinghouse, James F. Ransome, CRC Press, Taylor & Francis group, 2010

TB2: Cloud Computing a practical Approach by Anthony T. velte, Toby J.velte Robert Elsenpeter, Tata Mc Graw Hill edition, 2010

Reference:

RB1: Cloud Application Architectures by George Reese, Oreilly publishers

	SCHEDULE OF INSTRUCTIONS UNIT - I	2015-16
		Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: B.VIJAY KUMAR

Designation: Assistant Professor

Department:: IT

The Schedule for the whole Course / Subject is:: 7


Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No__ to __
1	14-12-2015	1	Disrtibuted parallel Computing Architectures	1	TB1
2	16-12-2015	2	<ul style="list-style-type: none"> • Vector processing • Symmetric multi processing Massively parallel processing systems	1	TB1
3	18-12-2015	1	High performance Cluster computing	1	TB1
4	18-12-2015	1	Grid Computing	1	TB1, RB1
5	21-12-2015	1	Service Oriented Architecture overview	1, 2	TB1
6	23-12-2015	1	Virtualization	1, 2	TB1, RB1

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2.ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY.**

3.MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - II	2015-16
		Regulation: R12

FACULTY DETAILS:


Name of the Faculty:: B.VIJAY KUMAR
 Designation: Assistant Professor
 Department:: IT

The Schedule for the whole Course / Subject is:: 8

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No ___ to ___
1	23-12-2015	1	Meaning of the terms cloud and cloud computing	1	TB1
2	28-12-2015	2	Cloud based service offering	1	TB1
3	30-12-2015	1	Grid Computing Vs Cloud Computing	1	TB1
4	30-12-2015	1	Benefits of cloud model Limitations Legal issues	1	TB1, RB1
5	1-1-2016	1	Key characteristics of cloud computing Challenges for the cloud	1, 2	TB1
6	4-1-2016	2	The evolution of cloud computing	1, 2	TB1, RB1

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
 2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.
 MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - III	2015-16
		Regulation: R12

FACULTY DETAILS:


Name of the Faculty:: B.VIJAY KUMAR
Designation: Assistant Professor
Department:: IT

The Schedule for the whole Course / Subject is:: 9

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No ___ to ___
1	6-1-2016	1	Infrastructure as a service	1	TB3
2	8-1-2016	2	Platform as a service	1	TB3
3	8-1-2016	1	Software as a service	1	TB3
4	11-1-2016	1	Building Cloud networks	1	TB3
5	18-1-2016	2	Evolution from the MSP model to cloud computing and software as a service	1, 2	TB3
6	20-1-2016	2	The Cloud data center – SOA as step toward cloud computing	1,2	TB3
7	22-1-2016	2	Basic approach to a data center based SOA	1,2	TB3

Signature of Faculty
Date

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MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - IV	2015-16
		Regulation: R12

FACULTY DETAILS:


Name of the Faculty:: B.VIJAY KUMAR
 Designation: Assistant Professor
 Department:: IT

The Schedule for the whole Course / Subject is:: 8

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No ___ to ___
1	27-1-2016	1	Federation in the cloud	1	TB3
2	27-1-2016	1	Presence in the cloud	1	TB3
3	29-1-2016	2	Privacy and its relation to cloud based information system	1,2	TB3
4	29-1-2016	2	Security in the Cloud	1	TB3
5	1-2-2016	2	Cloud security challenges	1, 2	TB3
6	3-2-2016	2	Software as a service security	1,2	TB3

Signature of Faculty
 Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
 2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.
 MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - V	2015-16
		Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: B.VIJAY KUMAR

Designation: Assistant professor

Department:: IT


The Schedule for the whole Course / Subject is:: 9

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No ___ to ___
1	15-1-2016	2	The open cloud consortium	1	TB1
2	16-1-2016	1	Distributed management task force	1	TB1
3	17-1-2016	2	Standards for application developers	1	TB1
4	18-1-2016	2	Standards for messaging	1	TB1
5	19-2-2016	2	Standards for security	1, 2	TB1

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY.**

MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - VI	2015-16
		Regulation: R12


FACULTY DETAILS:

Name of the Faculty:: B.vijay kumar
 Designation: Assistant Professor
 Department:: IT

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No__ to __
1	23-2-2016	1	Youtube Zimbra	1	TB1
2	24-2-2016	2	Facebook Zoho DimDim Collaboration	1	TB1
3	25-2-2016	2	Mobile internet and the cloud : Smartphone –mobile operating	1	TB1
4	26-2-2016	1	Mobile Platform virtualization	1	TB1
5	27-2-2016	2	Collaboration applications for mobile platforms	1, 2	TB1
6		1	Future Trends		

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
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 MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - VII	2015-16
		Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: B.VIJAY KUMAR

Designation: Assistant Professor

Department:: IT

The Schedule for the whole Course / Subject is:: 10

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No ___ to ___
1	28-2-2016	1	Adding guest Operating system	1	TB2
2	28-2-2016	1	Cloud computing case studies : Amazon EC2	1	TB2
3	1-3-2016	1	Amazon simple DB	1	TB2
4	5-3-2016	1	Amazon Cloud Front	1	TB2, RB2
5	8-3-2016	1	Amazon SQS	1	TB2


Signature of Faculty

Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.

MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - VIII	2015-16
		Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: B.VIJAY KUMAR

Designation: Assistant Professor

Department:: IT

The Schedule for the whole Course / Subject is:: 6

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No ___ to ___
1	28-2-2016	1	Google App Engine Google web toolkit	1	TB2
2	28-2-2016	4	Microsoft Azure Services platform Windows Live Exchange Online Sharepoint services Microsoft dynamic CRM	1	TB2
3.		1	Salesforce.com CRM App Exchange	1	TB2

Signature of Faculty

Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.

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MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	COURSE COMPLETION STATUS	2015-16
		Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: B VIJAY KUMAR

Subject:: cc Subject Code 58065 Department:: IT

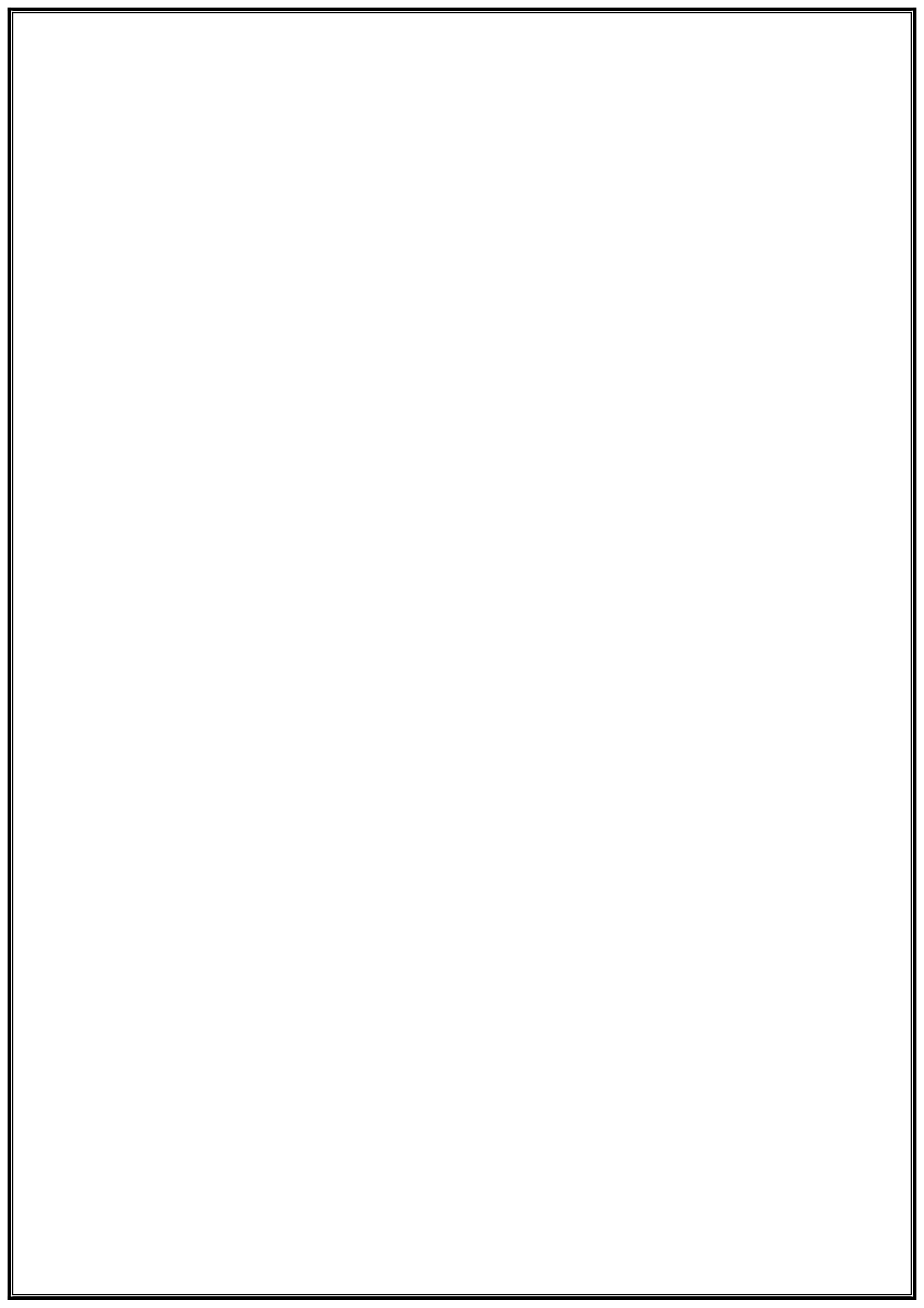
Actual Date of Completion & Remarks, if any


Units	Remarks	Nos. of Objectives Achieved
Unit 1	30/12/15	2
Unit 2	21/1/13	2
Unit 3		
Unit 4	31/1/12	4
Unit 5	6/2/13	3
Unit 6	18/2/16	1
Unit 7	27/2/16	1
Unit 8	15/3/16	2
Unit 9	3/4/16	2

Signature of Dean of School
Date:

Signature of Faculty
Date:

NOTE: AFTER THE COMPLETION OF EACH UNIT MENTION THE NUMBER OF OBJECTIVES ACHIEVED.



	TUTORIAL SHEETS - I	2015-16
		Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: B.VIJAY KUMAR
 Designation: Assistant Professor
 Department:: IT

The Schedule for the whole Course / Subject is:: CC

Date:

This Tutorial corresponds to Unit Nos. I, II, III and IV

Time:

1. Write about any 2 various Parallel computing Architectures
2. What are the key characteristics of cloud computing
3. What are the benefits and limitations of cloud computing
4. Explain any 2 of the following
 - a) Infrastructure as a service
 - b) Platform as a service
 - c) Software as a service
5. Write about security in the cloud

Please write the Questions / Problems / Exercises which you would like to give to the students and also mention the objectives to which these questions / Problems are related.

Signature of Dean of School
Date:

Signature of Faculty
Date:



TUTORIAL SHEETS - II

2015-16

Regulation: R12

FACULTY DETAILS:

Name of the Faculty:: B.VIJAY KUMAR

Designation: Assistant Professor

Department:: IT

The Schedule for the whole Course / Subject is:: CC

Date:

This Tutorial corresponds to Unit Nos. V, VI, VII and VIII

Time:

1. What are the standards for messaging
2. Write about any 2
 - a. Youtube
 - b. Facebook
 - c. Zoho
3. What about Smartphones
4. Explain any 2 of the following
 - a) Amazon EC2
 - b) Amazon Cloud Front
 - c) Amazon SQS
5. Write about
 - a) Google App Engine
 - b) Google Web Toolkit

Date:

Signature of Faculty

Date:



ILLUSTRATIVE VERBS FOR STATING INSTRUCTIONAL OBJECTIVES

2015-16

Regulation: R12

These verbs can also be used while framing questions for Continuous Assessment Examinations as well as for End – Semester (final) Examinations.

ILLUSTRATIVE VERBS FOR STATING GENERAL OBJECTIVES

Know Comprehend	Understand Apply	Analyze Design	Generate Evaluate
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ILLUSTRATIVE VERBS FOR STATING SPECIFIC OBJECTIVES:

A. Cognitive Domain

1	2	3	4	5	6
Knowledge	Comprehension Understanding	Application of knowledge & comprehension	Analysis of whole w.r.t. its constituents	Synthesis combination of ideas/constituents	Evaluation judgement
Define Identify Label List Match Reproduce Select State	Convert Defend Describe (a procedure) Distinguish Estimate Explain why/how Extend Generalize Give examples Illustrate Infer Summarize	Change Compute Demonstrate Deduce Manipulate Modify Predict Prepare Relate Show Solve	Breakdown Differentiate Discriminate Distinguish Separate Subdivide	Categorize Combine Compile Compose Create Devise Design Generate Organize Plan Rearrange Reconstruct Reorganize Revise	Appraise Compare Conclude Contrast Criticize Justify Interpret Support

B. Affective Domain

C. Psychomotor Domain (skill development)

Adhere	Resolve	Bend	Dissect	Insert	Perform	Straighten
Assist	Select	Calibrate	Draw	Keep	Prepare	Strengthen
Attend	Serve	Compress	Extend	Elongate	Remove	Time
Change	Share	Conduct	Feed	Limit	Replace	Transfer
Develop		Connect	File	Manipulate	Report	Type
Help		Convert	Grow	Move precisely	Reset	Weigh
Influence		Decrease	Handle	Operate	Run	
Initiate		Demonstrate	Increase	Paint	Set	

