	Date:
	02/12/2014
Sub.Name: CLOUD COMPUTING	
Branch: CSE, Semester& Sections:VIII – A	**To 12/03/2015**

T138 – CLOUD COMPUTING

Lecture	:3 Periods/week	**Internal Marks**	: 25
Tutorial	:1	**External Marks**	: 75
Credits	:4	**External Examination**	: 3 Hrs

UNIT – I

Foundations: Introduction to cloud computing, migrating into a cloud enriching, integrating as a service paradigm for the cloud era, cloud computing for enterprise applications

UNIT – II

Infrastructure as a Service(IaaS): Virtual Machines Provisioning and Migration Services, On the management of Virtual machines for cloud Infrastructures, Enhancing Cloud Computing Environments using a Cluster as a service, Secure Distributed Data Storage in Cloud Computing

UNIT – III

Platform and Software as a Service(Aphasias): Aneka-Integration of Private and Public Clouds, Comet Cloud: An Autonomic Cloud Engine-systems Cloud-Based Solution for Business Applications, Workflow Engine for Clouds, Understanding Scientific Applications for Cloud Environments, The map Reduce Programming Model and Implementations

UNIT – IV

Monitoring and Management: An architecture for Federated Cloud Computing,SLA management in Cloud Computing: A service Provider's Perspective, Performance Prediction for HPC on Clouds

UNIT – V

Applications: Architecting Applications for the Amazon Cloud, Massively Multiplayer Online game Hosting on cloud Resources, Building Content Delivery Networks Using Clouds, Resource Cloud mashups.

TEXT BOOK

"Cloud Computing: principles and Paradigms", Raj Kumar Bunya, James Bromberg, Andrej Kosciusko, Wiley, New York, USA

Pre requisite: Basic knowledge regarding computer, graphics and screen designs

Course Educational Objectives:

- Demonstrate an understanding of guidelines, principles, and theories influencing cloud computing.
- Recognize how a cloud computing operation to be performed.
- Use the information sources available, and be aware of the methodologies and technologies supporting advances in cloud computing.

Course Outcomes: After completion of this course a student can able to

CO1: Define cloud computing and related concepts.

CO2: Understand the key dimensions of the challenges of Cloud Computing

CO3: Understand the assessment of the economics, financial, and technological implications for selecting cloud computing for an organization.

CO4: Describe the benefits of cloud computing and Understand the challenges of cloud computing.

CO5: able to understand how cloud components fit together.

	Lakireddy Bali Reddy College of Engineering	
	Department of CSE	
	Outcome based lesson plan	
	Academic year: 2015-16	Course: Cloud Computing
	Programme: B.Tech	Unit No: 1 to 5
	Year & Sem: IV & II (VIII sem)	Section: A & B

S.No	Teaching Learning Process (TLP)	Delivery Methods (DM)	Assessment Methods (AM)
1	Solving Real world problem	Chalk & Talk	Assignments
2	Explaining application before theory	ICT tools	Quiz
3	Solving problems	Group discussions	Tutorials
4	Designing of experiments	Industrial visit	Surprise Tests
5	Problems on environmental, economics, health & safety	Field work	Mid Exams
6	Problems on professional & ethics	Case studies	Model Exam
7	Seminar	Mini Projects	QAs
8	Problems using software	Numerical treatment	
9	Self study	Design / Exercises	

Detailed Lesson Plan

S.NO	TOPIC TO BE COVERED	Date Tentative	Date Actual	TLP	DM	AM
UNIT –I: Foundations					
1	**Foundation : Importance of cloud computing**	2/12/14		2	1	
2	Introduction to cloud computing	2/12/14		2	1	
3	Importance of migration	3/12/14		2	1	
4	Migration into a cloud	4/12/14		2	1	
5	Enriching Integration As a Service	4/12/14		2	1	
6	**Cloud computing services**	9/12/14		2	1	
7	Roots of cloud computing	9/12/14		2	1	1,3,5,7
8	Challenges of Migration	10/12/14		2	1,3	
9	Paradigm for the cloud era	10/12/14		2	1,3	
10	Integration with public, homogeneous and heterogeneous	11/12/14		2	1,3	
11	Jitter bit in Integration and .NET service Bus,ISB	11/12/14		2	1	
12	Cloud computing for enterprise applications	12/12/14		2	1	
13	Adoption strategy and five stages of cloud	16/12/14		2	1	
14	**Tutorial-1**	2/12/14				
UNIT –II: Infrastructure as a Service(IaaS)					
15	**Virtual Machines Provisioning**	16/12/14		2	1	
16	Migration services	16/12/14		2	1	
17	On the management of Virtual Machines for cloud infrastructure	17/12/14		2	1	1,3,5,7
18	On the management of Virtual Machines for cloud infrastructure	18/12/14		2	1	

19	Enhancing cloud computing environments using cluster as a service	19/12/14		2	1	
20	Secured distributed data storage in cloud computing	19/12/14		2	1,3	
21	Secured distributed data storage in cloud computing	22/12/14		2	1	
22	Revision	23/12/14				
23	**Tutorial - II**	16/12/14				
24						
25	**MID – I EXAMS**					
26						

UNIT –III: Platform and Software as a Service(Aphasias)						
27	**Platform and software as a Service**	24/12/14		2	2	
28	Aneka	24/12/14		2	2	
29	Aneka	26/12/14		2	2	
30	Integration of private and public clouds	26/12/14		2	2	
31	Comet cloud	29/12/14		2	2	
32	Comet cloud	30/12/14		2	2	
33	An autonomic cloud engine	30/12/14		2	2	
34	T-systems	31/12/14		2	2	1,3,5,7
35	T-systems	2/1/15		2	2	
36	Cloud based solutions for business applications	2/1/15		2	2	
37	Cloud based solutions for business applications	5/1/15		2	2	
38	Work flow engines for clouds	5/1/15		2	2	
39	Work flow engines for clouds	6/1/15		2	2	
40	Work flow engines for clouds	6/1/15		2	2	

41	Understanding scientific applications	7/1/15		2	2	
42	Understanding scientific applications	7/1/15		2	2	
43	Understanding scientific cloud environments	8/1/15		2	2	
44	The Map reduce programming Model	8/1/15		2	2	
45	The Map reduce programming Model	9/1/15		2	2	
46	Map reduce implementations	9/1/15		2	2	
47	Revision	19/1/15				
48	**Tutorial - 3**	20/1/15				

UNIT –IV: Monitoring and Management

49	Monitoring and management	21/1/15		2	1,2	
50	An architecture for federated cloud computing	29/1/15		2	1,2	
51	An architecture for federated cloud computing	9/2/15		2	2	
52	An architecture for federated cloud computing	10/2/15		2	2	
53	SLA management in cloud computing	11/2/15		2	2	
54	SLA management in cloud computing	11/2/15		2	2	
55	SLA management in cloud computing	12/2/15		2	1,2	1,3,5,7
56	A service providers perspective	12/2/15		2	2	
57	A service providers perspective	13/2/15		2	2	
58	Performance prediction	16/2/15		2	2	
59	Performance prediction	19/2/15		2	2	
60	HPC on clouds	20/2/15		2	1,2	
61	HPC on clouds	23/2/15		2	1,2	
62	**Tutorial - 4**	24/2/15				

UNIT –V:Applications

63	**Introduction on applications**	25/2/15		2	1,2	1,3,5,7

64	Architecting applications for the Amazon Cloud	26/2/15		2	1,2	
65	Architecting applications for the Amazon Cloud	26/2/15		2	1,2	
66	Massively multiplayer Online Game hosting on Cloud resources	27/2/15		2	1,2	
67	Massively multiplayer Online Game hosting on Cloud resources	26/2/15		2	1,2	
68	Massively multiplayer Online Game hosting on Cloud resources	26/2/15		2	1,2	
69	Massively multiplayer Online Game hosting on Cloud resources	2/3/15		2	1,2	
70	**Building Content delivery networks**	2/3/15		2	1,2	
71	Building Content delivery networks	5/3/15		2	1,2	
72	Building Content delivery networks	5/3/15		2	1,2	
73	Resource cloud mashups	6/3/15		2	1,2	
74	Resource cloud mashups	7/3/15		2	1,2	
75	Resource cloud mashups	9/3/15		2	1,2	
76	Resource cloud mashups	10/3/15		2	1,2	
77	Revision	11/3/15		2	1,2	
78	**Tutorial – 5**	12/3/15				
79						
80	**II MID EXAMS**					
81						

Resources Used:

TEXT BOOK

"Cloud Computing: principles and Paradigms", Raj Kumar Bunya, James Bromberg, Andrej Kosciusko, Wiley, New York, USA

Assessment Summary:

Assessment Task	Weight age (Marks)	Course Outcomes				
		CO1	CO2	CO3	CO4	CO5
Assignments	--					

Quizzes	--						
Tutorials	--						
Surprise Tests	--						
Mid Exams	20						
Model Exams	--						
End Exam	75						
Attendance	05						
Total	100						

Mapping Course Outcomes with Programme Outcomes:

Course Code	Unit	Course Outcomes					Programme Outcomes										
		1	2	3	4	5	a	b	c	d	e	f	g	h	i	j	k
T214	I	×						×	×		×				×		×
	II		×					×	×		×				×		×
	III			×				×	×		×				×		×
	IV				×			×	×		×				×		×
	V					×		×	×		×				×		×

	Instructor	Course Coordinator	Module Coordinator	HOD
Name	B Sivaramakrishna	B Sivaramakrishna		Dr. N. Ravi Shankar
Sign with Date				

	LESSON PLAN	**Date:**
		02/12/2014
	Sub.Name: CLOUD COMPUTING	
	Branch: CSE, Semester& Sections:VIII –B	**To 12/03/2015**

T138 – CLOUD COMPUTING

Lecture	:3 Periods/week	Internal Marks	: 25
Tutorial	:1	External Marks	: 75
Credits	:4	External Examination	: 3 Hrs

UNIT – I

Foundations: Introduction to cloud computing, migrating into a cloud enriching, integrating as a service paradigm for the cloud era, cloud computing for enterprise applications

UNIT – II

Infrastructure as a Service(IaaS): Virtual Machines Provisioning and Migration Services, On the management of Virtual machines for cloud Infrastructures, Enhancing Cloud Computing Environments using a Cluster as a service, Secure Distributed Data Storage in Cloud Computing

UNIT – III

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UNIT – IV

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CO4: Describe the benefits of cloud computing and Understand the challenges of cloud computing.

CO5: able to understand how cloud components fit together.

	Lakireddy Bali Reddy College of Engineering	
	Department of CSE	
	Outcome based lesson plan	
	Academic year: 2015-16	Course: Cloud Computing
	Programme: B.Tech	Unit No: 1 to 5
	Year & Sem: IV & II (VIII sem)	Section: A & B

S.No	Teaching Learning Process (TLP)	Delivery Methods (DM)	Assessment Methods (AM)
1	Solving Real world problem	Chalk & Talk	Assignments
2	Explaining application before theory	ICT tools	Quiz
3	Solving problems	Group discussions	Tutorials
4	Designing of experiments	Industrial visit	Surprise Tests
5	Problems on environmental, economics, health & safety	Field work	Mid Exams
6	Problems on professional & ethics	Case studies	Model Exam
7	Seminar	Mini Projects	QAs
8	Problems using software	Numerical treatment	
9	Self study	Design / Exercises	

Detailed Lesson Plan

S.NO	TOPIC TO BE COVERED	Date Tentative	Date Actual	TLP	DM	AM
UNIT –I: Foundations						
1	**Foundation :** Importance of cloud computing	2/12/14		2	1	1,3,5,7
2	Introduction to cloud computing	2/12/14		2	1	
3	Importance of migration	3/12/14		2	1	
4	Migration into a cloud	4/12/14		2	1	
5	Enriching Integration As a Service	4/12/14		2	1	
6	**Cloud computing services**	9/12/14		2	1	
7	Roots of cloud computing	9/12/14		2	1	
8	Challenges of Migration	10/12/14		2	1,3	
9	Paradigm for the cloud era	10/12/14		2	1,3	
10	Integration with public, homogeneous and heterogeneous	11/12/14		2	1,3	
11	Jitter bit in Integration and .NET service Bus,ISB	11/12/14		2	1	
12	Cloud computing for enterprise applications	12/12/14		2	1	
13	Adoption strategy and five stages of cloud	16/12/14		2	1	
14	**Tutorial-1**	2/12/14				
UNIT –II: Infrastructure as a Service(IaaS)						
15	**Virtual Machines Provisioning**	16/12/14		2	1	1,3,5,7
16	Migration services	16/12/14		2	1	
17	On the management of Virtual Machines for cloud infrastructure	17/12/14		2	1	
18	On the management of Virtual Machines for cloud infrastructure	18/12/14		2	1	

No	Topic	Date				
19	Enhancing cloud computing environments using cluster as a service	19/12/14		2	1	
20	Secured distributed data storage in cloud computing	19/12/14		2	1,3	
21	Secured distributed data storage in cloud computing	22/12/14		2	1	
22	Revision	23/12/14				
23	**Tutorial - II**	16/12/14				
24						
25	**MID – I EXAMS**					
26						

	UNIT –III: Platform and Software as a Service(Aphasias)					
27	**Platform and software as a Service**	24/12/14		2	2	
28	Aneka	24/12/14		2	2	
29	Aneka	26/12/14		2	2	
30	Integration of private and public clouds	26/12/14		2	2	
31	Comet cloud	29/12/14		2	2	
32	Comet cloud	30/12/14		2	2	
33	An autonomic cloud engine	30/12/14		2	2	
34	T-systems	31/12/14		2	2	1,3,5,7
35	T-systems	2/1/15		2	2	
36	Cloud based solutions for business applications	2/1/15		2	2	
37	Cloud based solutions for business applications	5/1/15		2	2	
38	Work flow engines for clouds	5/1/15		2	2	
39	Work flow engines for clouds	6/1/15		2	2	
40	Work flow engines for clouds	6/1/15		2	2	

41	Understanding scientific applications	7/1/15		2	2	
42	Understanding scientific applications	7/1/15		2	2	
43	Understanding scientific cloud environments	8/1/15		2	2	
44	The Map reduce programming Model	8/1/15		2	2	
45	The Map reduce programming Model	9/1/15		2	2	
46	Map reduce implementations	9/1/15		2	2	
47	Revision	19/1/15				
48	**Tutorial - 3**	20/1/15				
UNIT –IV: Monitoring and Management						
49	Monitoring and management	21/1/15		2	1,2	
50	An architecture for federated cloud computing	29/1/15		2	1,2	
51	An architecture for federated cloud computing	9/2/15		2	2	
52	An architecture for federated cloud computing	10/2/15		2	2	
53	SLA management in cloud computing	11/2/15		2	2	
54	SLA management in cloud computing	11/2/15		2	2	
55	SLA management in cloud computing	12/2/15		2	1,2	1,3,5,7
56	A service providers perspective	12/2/15		2	2	
57	A service providers perspective	13/2/15		2	2	
58	Performance prediction	16/2/15		2	2	
59	Performance prediction	19/2/15		2	2	
60	HPC on clouds	20/2/15		2	1,2	
61	HPC on clouds	23/2/15		2	1,2	
62	**Tutorial - 4**	24/2/15				
UNIT –V:Applications						
63	**Introduction on applications**	25/2/15		2	1,2	1,3,5,7

64	Architecting applications for the Amazon Cloud	26/2/15		2	1,2	
65	Architecting applications for the Amazon Cloud	26/2/15		2	1,2	
66	Massively multiplayer Online Game hosting on Cloud resources	27/2/15		2	1,2	
67	Massively multiplayer Online Game hosting on Cloud resources	26/2/15		2	1,2	
68	Massively multiplayer Online Game hosting on Cloud resources	26/2/15		2	1,2	
69	Massively multiplayer Online Game hosting on Cloud resources	2/3/15		2	1,2	
70	**Building Content delivery networks**	2/3/15		2	1,2	
71	Building Content delivery networks	5/3/15		2	1,2	
72	Building Content delivery networks	5/3/15		2	1,2	
73	Resource cloud mashups	6/3/15		2	1,2	
74	Resource cloud mashups	7/3/15		2	1,2	
75	Resource cloud mashups	9/3/15		2	1,2	
76	Resource cloud mashups	10/3/15		2	1,2	
77	Revision	11/3/15		2	1,2	
78	**Tutorial – 5**	12/3/15				
79						
80	**II MID EXAMS**					
81						

Resources Used:

TEXT BOOK

"Cloud Computing: principles and Paradigms", Raj Kumar Bunya, James Bromberg, Andrej Kosciusko, Wiley, New York, USA

Assessment Summary:

Assessment Task	Weight age (Marks)	Course Outcomes				
		CO1	CO2	CO3	CO4	CO5
Assignments	--					

Quizzes	--					
Tutorials	--					
Surprise Tests	--					
Mid Exams	20					
Model Exams	--					
End Exam	75					
Attendance	05					
Total	100					

Mapping Course Outcomes with Programme Outcomes:

Course Code	Unit	Course Outcomes					Programme Outcomes										
		1	2	3	4	5	a	b	c	d	e	f	g	h	i	j	k
T214	I	×						×	×		×				×		×
	II		×					×	×		×				×		×
	III			×				×	×		×				×		×
	IV				×			×	×		×				×		×
	V					×		×	×		×				×		×

	Instructor	Course Coordinator	Module Coordinator	HOD
Name	B Sivaramakrishna	B Sivaramakrishna		Dr. N. Ravi Shankar
Sign with Date				

T214 – HUMAN COMPUTER INTERFACE

Lecture	: 3 Periods/week	**Internal Marks**	: 25
Tutorial	:1	**External Marks**	: 75
Credits	: 3	**External Examinations: 3 Hrs**	

UNIT - I

Introduction: Importance of user Interface – definition, importance of good design, benefits of good design. A brief history of Screen design.

The graphical user interface – popularity of graphics, the concept of direct manipulation, graphical system, Characteristics, Web user – Interface popularity, characteristics- Principles of user interface.

UNIT – II

Design process – Human interaction with computers, importance of human characteristics human consideration, Human interaction speeds, understanding business junctions.

UNIT - III

Screen Designing : Design goals – Screen planning and purpose, organizing screen elements, ordering of screen data and content – screen navigation and flow – Visually pleasing composition – amount of information – focus and emphasis – presentation information simply and meaningfully – information retrieval on web – statistical graphics – Technological consideration in interface design.

UNIT - IV

Windows – New and Navigation schemes selection of window, selection of devices based and screen based controls.

UNIT - V

Components – text and messages, Icons and images – Multimedia, colors – uses, problems with choosing colors.

Interaction Devices – Keyboard and function keys – pointing devices – speech recognition digitization and generation – image and video displays – drivers.

TEXT BOOK

The essential guide to user interface design, Wilbert O Galitz, Wiley DreamaTech.

REFERENCES

1. Designing the user interface. 3rd Edition Ben Shneidermann, Pearson Education Asia.
2. Human – Computer Interaction. ALAN DIX, JANET FINCAY, GRE GORYD, ABOWD, RUSSELL BEALG, PEARSON.

Pre requisite: Basic knowledge regarding computer, graphics and screen designs

Course Educational Objectives:

- Demonstrate an understanding of guidelines, principles, and theories influencing human computer interaction.
- Recognize how a computer system may be modified to include human diversity.
- Select an effective style for a specific application.
- Design mock ups and carry out user and expert evaluation of interfaces.
- Carry out the steps of experimental design, usability and experimental testing, and evaluation of human computer interaction systems.
- Use the information sources available, and be aware of the methodologies and technologies supporting advances in HCI.

Course Outcomes: After completion of this course a student can able to
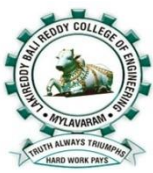
CO1: Understand the importance of the Graphical user interface and popularity of the graphics.

CO2: Understand the importance of human characteristics in design and how people interact with computers.

CO3: Students can articulate and apply common design principles for making good decisions in the design of user interfaces.

CO4: Understand various kinds of windows and their characteristicsand have an ability to select the proper device based and screen based controls.

CO5: Understand different components that are available in the screens and various interaction devices which are used to interact with the computer.

	Lakireddy Bali Reddy College of Engineering
	Department of CSE
	Outcome based lesson plan
	Academic year: 2014-15	Course: Human Computer Interface
	Programme: B.Tech	Unit No: 1 to 5
	Year & Sem: IV& II (VIII sem)	Section: A

S.No	Teaching Learning Process (TLP)	Delivery Methods (DM)	Assessment Methods (AM)
1	Solving Real world problem	Chalk & Talk	Assignments

2	Explaining application before theory	ICT tools	Quiz
3	Solving problems	Group discussions	Tutorials
4	Designing of experiments	Industrial visit	Surprise Tests
5	Problems on environmental, economics, health & safety	Field work	Mid Exams
6	Problems on professional & ethics	Case studies	Model Exam
7	Seminar	Mini Projects	QAs
8	Problems using software	Numerical treatment	
9	Self study	Design / Exercises	

Detailed Lesson Plan

S.NO	TOPIC TO BE COVERED	Date Tentative	Actual	TLP	DM	AM
	UNIT –I: Introduction to Graphical User Interface					
1	**Introduction :** Importance of user Interface	03-12-2014		2	1	
2	Overview of user Interface	04-12-2014		2	1	
3	Importance of good design	05-12-2014		2	1	
4	Benefits of good design.	05-12-2014		2	1	
5	A brief history of Screen design	08-12-2014		2	1	
6	**The graphical user interface** – popularity of graphics	09-12-2014		2	1	1,3,5,7
7	the concept of direct manipulation	09-12-2014		2	1	
8	graphical system Characteristics	10-12-2014		2	1,3	
9	graphical system Characteristics	11-12-2014		2	1,3	
10	Web user – Interface popularity	11-12-2014		2	1,3	
11	Web user – Interface popularity	12-12-2014		2	1	
12	Characteristics- Principles of user interface.	12-12-2014		2	1	
13	Characteristics- Principles of user interface.	15-12-2014		2	1	
14	**Tutorial-1**	15-12-2014				

	UNIT –II: Design Process						
15	**Design process** – Human interaction with computers	16-12-2014		2	1		
16	importance of human characteristics	17-12-2014		2	1		
17	human consideration	19-12-2014		2	1	1,3,5,7	
18	Human interaction speeds	19-12-2014		2	1		
19	Human interaction speeds	22-12-2014		2	1		
20	Understanding business junctions.	22-12-2014		2	1,3		
21	Understanding business junctions.	23-12-2014		2	1		
22	Revision	23-12-2014					
23	**Tutorial - II**	24-12-2014					
26							

	UNIT –III: Screen Designing						
27	**Screen Designing :** Design goals	29-12-2014		2	2		
28	Screen planning and purpose	29-12-2014		2	2		
29	Screen planning and purpose	30-12-2014		2	2		
30	organizing screen elements	30-12-2014		2	2		
31	organizing screen elements	31-12-2014		2	2		
32	ordering of screen data and content	02-01-2015		2	2		
33	ordering of screen data and content	02-01-2015		2	2		
34	screen navigation and flow	05-01-2015		2	2		
35	Visually pleasing composition	05-01-2015		2	2	1,3,5,7	
36	amount of information	06-01-2015		2	2		
37	Distinctiveness	06-01-2015		2	2		
38	focus and emphasis	07-01-2015		2	2		
39	Conveying Depth of levels or a Three dimensional appearance	08-01-2015		2	2		
40	presentation information simply and meaningfully	09-01-2015		2	2		
41	information retrieval on web	19-01-2015		2	2		

42	Reading, Browsing, and Searching on the Web	19-01-2015		2	2
43	Intranet, extranet design guidelines	20-01-2015		2	2
44	statistical graphics	20-01-2015		2	2
45	Technological consideration in interface design	21-01-2015		2	2
46	Graphical systems, web systems	22-01-2015		2	2
47	Revision	23-01-2015			
48	**Tutorial - 3**	23-01-2015			
UNIT –IV: Windows

49	**Windows** – New and Navigation schemes	09-02-2015		2	1,2	
50	Structure of Menus, Functions of Menus	13-02-2015		2	1,2	
51	Functions of Menus	16-02-2015		2	2	
52	Content of Menus, Formatting Menus	18-02-2015		2	2	
53	Phrasing the Menu, Selecting Menu Choices	19-02-2015		2	2	
54	Navigating Menus, Kinds of Graphical Menus	23-02-2015		2	2	
55	selection of window	24-02-2015		2	1,2	1,3,5,7
56	Components of Window	25-02-2015		2	2	
57	Window Presentation Styles, Types of Windows	26-02-2015		2	2	
58	Selection of devices based controls	27-02-2015		2	2	
59	Selection of devices based controls	02-03-2015		2	2	
60	Selection of screen based controls.	03-03-2015		2	1,2	
61	Selection of screen based controls.	04-03-2015		2	1,2	
62	**Tutorial - 4**	06-03-2015				
UNIT –V:Components & Interaction Devices
63	**Components** – text and messages	10-03-2015		2	1,2	
64	**Text for web pages**	18-03-2015		2	1,2	
65	Icons and increases	19-03-2015		2	1,2	1,3,5,7
66	Kinds of Icons, characteristics of Icons	20-03-2015		2	1,2	
67	Multimedia	23-03-2015		2	1,2	

68	Colorsuses.	24-03-2015		2	1,2	
69	problems with choosing colors	25-03-2015		2	1,2	
70	**Interaction Devices**	26-03-2015		2	1,2	
71	Keyboard and function keys	27-03-2015		2	1,2	
72	pointing devices	30-03-2015		2	1,2	
73	speech recognition	31-03-2015		2	1,2	
74	digitization and generation	01-04-2015		2	1,2	
75	image and video displays	02-04-2015		2	1,2	
76	Drivers.	03-04-2015		2	1,2	
77	Revision	04-04-2015		2	1,2	
78	**Tutorial – 5**	05-04-2015		2	1,2	

Resources Used:

TEXT BOOK

1. The essential guide to user interface design, Wilbert O Galitz, Wiley DreamaTech.

REFERENCES

2. Designing the user interface. 3rd Edition Ben Shneidermann, Pearson Education Asia.
3. Human − Computer Interaction. ALAN DIX, JANET FINCAY, GRE GORYD, ABOWD, RUSSELL BEALG, PEARSON.

Assessment Summary:

Assessment Task	Weight age (Marks)	Course Outcomes				
		CO1	CO2	CO3	CO4	CO5
Assignments	--					
Quizzes	--					
Tutorials	--					
Surprise Tests	--					
Mid Exams	20					
Model Exams	--					
End Exam	75					
Attendance	05					
Total	100					

Mapping Course Outcomes with Programme Outcomes:

Course Code	Unit	Course Outcomes					Programme Outcomes										
		1	2	3	4	5	a	b	c	d	e	f	g	h	i	j	k
T214	I	×						×	×		×				×		×
	II		×					×	×		×				×		×
	III			×				×	×		×				×		×
	IV				×			×	×		×				×		×
	V					×		×	×		×				×		×

	Instructor	Course Coordinator	Module Coordinator	HOD
Name	B.G.OBULA REDDY			
Sign with Date				

	LESSON PLAN	**Date:**
		03-12-2014**To**
	SUBJECT NAME:HUMAN COMPUTER INTERFACE	05-04-2015
	BRANCH: CSESEM& SECTION: VIII &B	

T214 – HUMAN COMPUTER INTERFACE

Lecture	**: 3 Periods/week**	**Internal Marks**	**: 25**
Tutorial	**:1**	**External Marks**	**: 75**
Credits	**: 3**	**External Examinations: 3 Hrs**	

UNIT - I

Introduction: Importance of user Interface – definition, importance of good design, benefits of good design. A brief history of Screen design.

The graphical user interface – popularity of graphics, the concept of direct manipulation, graphical system, Characteristics, Web user – Interface popularity, characteristics- Principles of user interface.

UNIT – II

Design process – Human interaction with computers, importance of human characteristics human consideration, Human interaction speeds, understanding business junctions.

UNIT - III

Screen Designing : Design goals – Screen planning and purpose, organizing screen elements, ordering of screen data and content – screen navigation and flow – Visually pleasing composition – amount of information – focus and emphasis – presentation information simply and meaningfully – information retrieval on web – statistical graphics – Technological consideration in interface design.

UNIT - IV

Windows – New and Navigation schemes selection of window, selection of devices based and screen based controls.

UNIT - V

Components – text and messages, Icons and images – Multimedia, colors – uses, problems with choosing colors.

Interaction Devices – Keyboard and function keys – pointing devices – speech recognition digitization and generation – image and video displays – drivers.

TEXT BOOK

The essential guide to user interface design, Wilbert O Galitz, Wiley DreamaTech.

REFERENCES

1. Designing the user interface. 3rd Edition Ben Shneidermann, Pearson Education Asia.
2. Human – Computer Interaction. ALAN DIX, JANET FINCAY, GRE GORYD, ABOWD, RUSSELL BEALG, PEARSON.

Pre requisite: Basic knowledge regarding computer, graphics and screen designs

Course Educational Objectives:

- Demonstrate an understanding of guidelines, principles, and theories influencing human computer interaction.
- Recognize how a computer system may be modified to include human diversity.
- Select an effective style for a specific application.
- Design mock ups and carry out user and expert evaluation of interfaces.
- Carry out the steps of experimental design, usability and experimental testing, and evaluation of human computer interaction systems.
- Use the information sources available, and be aware of the methodologies and technologies supporting advances in HCI.

Course Outcomes: After completion of this course a student can able to

CO1: Understand the importance of the Graphical user interface and popularity of the graphics.

CO2: Understand the importance of human characteristics in design and how people interact with computers.

CO3: Students can articulate and apply common design principles for making good decisions in the design of user interfaces.

CO4: Understand various kinds of windows and their characteristicsand have an ability to select the proper device based and screen based controls.

CO5: Understand different components that are available in the screens and various interaction devices which are used to interact with the computer.

	Lakireddy Bali Reddy College of Engineering
	Department of CSE
	Outcome based lesson plan
	Academic year: 2014-15	Course: Human Computer Interface
	Programme: B.Tech	Unit No: 1 to 5
	Year & Sem: IV& II (VIII sem)	Section: B

S.No	Teaching Learning Process (TLP)	Delivery Methods (DM)	Assessment Methods (AM)
1	Solving Real world problem	Chalk & Talk	Assignments

2	Explaining application before theory	ICT tools	Quiz
3	Solving problems	Group discussions	Tutorials
4	Designing of experiments	Industrial visit	Surprise Tests
5	Problems on environmental, economics, health & safety	Field work	Mid Exams
6	Problems on professional & ethics	Case studies	Model Exam
7	Seminar	Mini Projects	QAs
8	Problems using software	Numerical treatment	
9	Self study	Design / Exercises	

Detailed Lesson Plan

S.NO	TOPIC TO BE COVERED	Date Tentative	Actual	TLP	DM	AM
UNIT –I: Introduction to Graphical User Interface					
1	**Introduction :** Importance of user Interface	03-12-2014		2	1	
2	Overview of user Interface	04-12-2014		2	1	
3	Importance of good design	05-12-2014		2	1	
4	Benefits of good design.	05-12-2014		2	1	
5	A brief history of Screen design	08-12-2014		2	1	
6	**The graphical user interface** – popularity of graphics	09-12-2014		2	1	1,3,5,7
7	the concept of direct manipulation	09-12-2014		2	1	
8	graphical system Characteristics	10-12-2014		2	1,3	
9	graphical system Characteristics	11-12-2014		2	1,3	
10	Web user – Interface popularity	11-12-2014		2	1,3	
11	Web user – Interface popularity	12-12-2014		2	1	
12	Characteristics- Principles of user interface.	12-12-2014		2	1	
13	Characteristics- Principles of user interface.	15-12-2014		2	1	
14	**Tutorial-1**	15-12-2014				

	UNIT –II: Design Process					
15	**Design process** – Human interaction with computers	16-12-2014		2	1	
16	importance of human characteristics	17-12-2014		2	1	
17	human consideration	19-12-2014		2	1	1,3,5,7
18	Human interaction speeds	19-12-2014		2	1	
19	Human interaction speeds	22-12-2014		2	1	
20	Understanding business junctions.	22-12-2014		2	1,3	
21	Understanding business junctions.	23-12-2014		2	1	
22	Revision	23-12-2014				
23	**Tutorial - II**	24-12-2014				
26						

	UNIT –III: Screen Designing					
27	**Screen Designing :** Design goals	29-12-2014		2	2	
28	Screen planning and purpose	29-12-2014		2	2	
29	Screen planning and purpose	30-12-2014		2	2	
30	organizing screen elements	30-12-2014		2	2	
31	organizing screen elements	31-12-2014		2	2	
32	ordering of screen data and content	02-01-2015		2	2	
33	ordering of screen data and content	02-01-2015		2	2	
34	screen navigation and flow	05-01-2015		2	2	1,3,5,7
35	Visually pleasing composition	05-01-2015		2	2	
36	amount of information	06-01-2015		2	2	
37	Distinctiveness	06-01-2015		2	2	
38	focus and emphasis	07-01-2015		2	2	
39	Conveying Depth of levels or a Three dimensional appearance	08-01-2015		2	2	
40	presentation information simply and meaningfully	09-01-2015		2	2	
41	information retrieval on web	19-01-2015		2	2	

42	Reading, Browsing, and Searching on the Web	19-01-2015		2	2	
43	Intranet, extranet design guidelines	20-01-2015		2	2	
44	statistical graphics	20-01-2015		2	2	
45	Technological consideration in interface design	21-01-2015		2	2	
46	Graphical systems, web systems	22-01-2015		2	2	
47	Revision	23-01-2015				
48	**Tutorial - 3**	23-01-2015				
	UNIT –IV: Windows					
49	**Windows** – New and Navigation schemes	09-02-2015		2	1,2	
50	Structure of Menus, Functions of Menus	13-02-2015		2	1,2	
51	Functions of Menus	16-02-2015		2	2	
52	Content of Menus, Formatting Menus	18-02-2015		2	2	
53	Phrasing the Menu, Selecting Menu Choices	19-02-2015		2	2	
54	Navigating Menus, Kinds of Graphical Menus	23-02-2015		2	2	
55	selection of window	24-02-2015		2	1,2	1,3,5,7
56	Components of Window	25-02-2015		2	2	
57	Window Presentation Styles, Types of Windows	26-02-2015		2	2	
58	Selection of devices based controls	27-02-2015		2	2	
59	Selection of devices based controls	02-03-2015		2	2	
60	Selection of screen based controls.	03-03-2015		2	1,2	
61	Selection of screen based controls.	04-03-2015		2	1,2	
62	**Tutorial - 4**	06-03-2015				
	UNIT –V:Components & Interaction Devices					
63	**Components** – text and messages	10-03-2015		2	1,2	
64	**Text for web pages**	18-03-2015		2	1,2	
65	Icons and increases	19-03-2015		2	1,2	1,3,5,7
66	Kinds of Icons, characteristics of Icons	20-03-2015		2	1,2	
67	Multimedia	23-03-2015		2	1,2	

68	Colorsuses.	24-03-2015		2	1,2	
69	problems with choosing colors	25-03-2015		2	1,2	
70	**Interaction Devices**	26-03-2015		2	1,2	
71	Keyboard and function keys	27-03-2015		2	1,2	
72	pointing devices	30-03-2015		2	1,2	
73	speech recognition	31-03-2015		2	1,2	
74	digitization and generation	01-04-2015		2	1,2	
75	image and video displays	02-04-2015		2	1,2	
76	Drivers.	03-04-2015		2	1,2	
77	Revision	04-04-2015		2	1,2	
78	**Tutorial – 5**	05-04-2015		2	1,2	

Resources Used:

TEXT BOOK

4. The essential guide to user interface design, Wilbert O Galitz, Wiley DreamaTech.

REFERENCES

5. Designing the user interface. 3rd Edition Ben Shneidermann, Pearson Education Asia.
6. Human – Computer Interaction. ALAN DIX, JANET FINCAY, GRE GORYD, ABOWD, RUSSELL BEALG, PEARSON.

Assessment Summary:

Assessment Task	Weight age (Marks)	Course Outcomes				
		CO1	CO2	CO3	CO4	CO5
Assignments	--					
Quizzes	--					
Tutorials	--					
Surprise Tests	--					
Mid Exams	20					
Model Exams	--					
End Exam	75					
Attendance	05					
Total	100					

Mapping Course Outcomes with Programme Outcomes

Course Code	Unit	Course Outcomes					Programme Outcomes										
		1	2	3	4	5	a	b	c	d	e	f	g	h	i	j	k
T214	I	×						×	×		×				×		×
	II		×					×	×		×				×		×
	III			×				×	×		×				×		×
	IV				×			×	×		×				×		×
	V					×		×	×		×				×		×

	Instructor	Course Coordinator	Module Coordinator	HOD
Name	B.G.OBULA REDDY			
Sign with Date				

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(Autonomous)
L.B. Reddy Nagar, Mylavaram – 521 230
INDUSTRIAL MANAGEMENT, Lesson Plan

Faculty Name   : U.RAMBABU   Date: 03/12/2014

Branch   : IV B. Tech. – C.S.E - A   Semester: VIII

Subject   : industrial management   A.Y.:2014-2015

S.No	No. of Lecture. Hrs	Date	Planned Topics	Topics Covered	Rema
UNIT-I : INTRODUCTION TO MANAGEMENT					
1	01	03-12-2014	Management Introduction		
2	01	04-12-2014	Definition, Nature		
3	01	05-12-2014	Importance of management		
4	01	05-12-2014	Functions		
5	01	08-12-2014	Taylor's scientific management theory		
6	01	09-12-2014	Fayal's principles of management		
7	01	09-12-2014	Tutorials		
8	01	10-12-2014	Contribution of Elton mayo		
9	01	11-12-2014	MASLOW theory		
10	01	11-12-2014	Herzberg, douglas, MC Gregor, basic concepts of Orgn.		
11	01	12-12-2014	Tutorials		
12	01	12-12-2014	Basic concept of organization :Authority Responsibility		
13	01	15-12-2014	Delegation of Authority and span of control		
14	01	15-12-2014	Departmentation and Decentralization		
15	01	16-12-2014	Tutorials		
16	01	16-12-2014	Orgn.structure Line and staff organization		

17	01	17-12-2014	Line and staff organization		
18	01	19-12-2014	Functional organization		
19	01	19-12-2014	Committee Matrix organization		
20	01	22-12-2014	Tutorials		

UNIT-II OPERATIONS MANAGEMENT

21	01	22-12-2014	Operations Management introduction		
22	01	23-12-2014	Plant location Factors influencing location		
23	01	23-12-2014	Principles and types of plant layouts		
24	01	24-12-2014	Methods of production : job batch and mass production		
25	01	29-12-2014	Work study		
26	01	29-12-2014	Basic procedure involved in method study		
27	01	30-12-2014	Work measurement		
28	01	30-12-2014	Tutorial		

UNIT-III QUALITY AND MATERIALS MANAGEMENT

29	01	31-12-2014	quality and materials management		
30	01	02-01-2015	Statistical quality control Meaning		
31	01	02-01-2015	Variables and attributes		
32	01	05-01-2015	X chart R Chart		
33	01	05-01-2015	problems		
34	01	06-01-2015	C Chart PC hart		
35	01	06-01-2015	Problems		
36	01	07-01-2015	Acceptance sampling Sampling plans		
37	01	08-01-2015	Deming's contribution to quality		
38	01	09-01-2015	Materials management : objectives		
39	01	19-01-2015	Need for inventory control		
40	01	19-01-2015	Tutorials		
41	01	20-01-2015	Purchase procedure		
42	01	20-01-2015	Store records		
43	01	21-01-2015	EOQ & problems		

44	01	22-01-2015	ABC analysis		
45	01	23-01-2015	Stock levels & PROBLEMS		
46	01	23-01-2015	ABC analysis		
47	01	09-02-2015	Stock levels & PROBLEMS		
48	01	09-02-2015	Stock levels & PROBLEMS		
49	01	13-02-2015	Stock levels & PROBLEMS		
50	01	16-02-2015	EOQ		
51	01	18-02-2015	Tutorial		
52	01	19-02-2015	**Tutorial**		
UNIT –IV HUMAN RESOURCES MANAGEMENT					
53	01	23-02-2015	Concepts of HRM		
54	01	24-02-2015	Basic functions of HR manager		
55	01	25-02-2015	Basic functions of HR manager		
56	01	26-02-2015	Man power planning		
57	01	27-02-2015	Selection & Recruitment		
58	01	02-03-2015	Steps in selection procedure		
59	01	03-03-2015	Wage and salary admn		
60	01	04-03-2015	Promotion, Transfers Separation performance. Appraisal		
61	01	06-03-2015	Job evaluation		
62	01	09-03-2015	merit ranking Tutorials		
63	01	10-03-2015	Tutorials		
UNIT-V PROJECT MANAGEMENT					
64	01	12-03-2015	Early techniques in project management		
65	01	13-03-2015	Network analysis Programme evaluation and review technique (PERT)		
66	01	16-03-2015	Identifying critical path		
67	01	17-03-2015	Problems		
68	01	18-03-2015	Tutorial		
69	01	19-03-2015	Probability of completing project within time		

70	01	20-03-2015	Problems		
71	01	23-03-2015	Problems		
72	01	24-03-2015	Project crashing		
73	01	25-03-2015	Problems		
74	01	26-03-2015	Tutorial		
75	01	27-03-2015	Problems		
76	01	30-03-2015	Project Work		
77	01	31-03-2015	Project Work		
78	01	01-04-2015	Project Work		
79	01	02-04-2015	Project Work		

Signature   Signature of HoD

(U.RAMBABU)

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(Autonomous)
L.B. Reddy Nagar, Mylavaram – 521 230
INDUSTRIAL MANAGEMENT, Lesson Plan

Faculty Name   : T.CHANDRA SEKHAR   Date: 03/12/2014

Branch   : IV B. Tech. – C.S.E - B   Semester: VIII

Subject   : industrial management   A.Y.:2014-2015

S.No	No. of Lecture. Hrs	Date	Planned Topics	Topics Covered	Rema
			UNIT-I : INTRODUCTION TO MANAGEMENT		
1	01	03-12-2014	Management Introduction		
2	01	04-12-2014	Definition, Nature		
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4	01	05-12-2014	Functions		
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16	01	16-12-2014	Orgn.structure Line and staff organization		

17	01	17-12-2014	Line and staff organization		
18	01	19-12-2014	Functional organization		
19	01	19-12-2014	Committee Matrix organization		
20	01	22-12-2014	Tutorials		
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21	01	22-12-2014	Operations Management introduction		
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23	01	23-12-2014	Principles and types of plant layouts		
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25	01	29-12-2014	Work study		
26	01	29-12-2014	Basic procedure involved in method study		
27	01	30-12-2014	Work measurement		
28	01	30-12-2014	Tutorial		
UNIT-III QUALITY AND MATERIALS MANAGEMENT					
29	01	31-12-2014	quality and materials management		
30	01	02-01-2015	Statistical quality control Meaning		
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46	01	23-01-2015	ABC analysis		
47	01	09-02-2015	Stock levels & PROBLEMS		
48	01	09-02-2015	Stock levels & PROBLEMS		
49	01	13-02-2015	Stock levels & PROBLEMS		
50	01	16-02-2015	EOQ		
51	01	18-02-2015	Tutorial		
52	01	19-02-2015	**Tutorial**		
UNIT –IV HUMAN RESOURCES MANAGEMENT					
53	01	23-02-2015	Concepts of HRM		
54	01	24-02-2015	Basic functions of HR manager		
55	01	25-02-2015	Basic functions of HR manager		
56	01	26-02-2015	Man power planning		
57	01	27-02-2015	Selection & Recruitment		
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71	01	23-03-2015	Problems		
72	01	24-03-2015	Project crashing		
73	01	25-03-2015	Problems		
74	01	26-03-2015	Tutorial		
75	01	27-03-2015	Problems		
76	01	30-03-2015	Project Work		
77	01	31-03-2015	Project Work		
78	01	01-04-2015	Project Work		
79	01	02-04-2015	Project Work		

Signature   Signature of HoD

(T.CHANDRA SEKHAR)