	LakireddyBalireddy College of Engineering College L.B.Reddy Nagar, Mylavaram , Krishna District, A.P FRESHMAN ENGINEERING DEPARTMENT			
	LESSON PLAN			
	Subject :	English - II- S240		
	Academic Year :	2015-16	Semester : II	Date: 28.12.2015
	Year :	I	Section : IT	To 07.05.2016

S240 – ENGLISH - II

Lecture : 4 Periods/week

Internal Marks : 25

Tutorial :

External Marks : 75

Credits : 3

External Examination: 3 Hrs

UNIT - I

Environment (Learning English)

The World of Figures and Physics – Satyendranath Bose (Master Minds)

Grammar: Correction of sentences

Analytical Writing: Report Writing

UNIT - II

Inspiration (Learning English)

The Institution Builders– Santi Swarup Bhatnagar (Masterminds)

Grammar: If-clause; Question tags

Vocabulary: Idioms and Phrases

Analytical Writing: Resume'; Statement of Purpose

UNIT - III

Human Interest (Learning English)

The institution builders – Meghanadh Saha (Master Minds)

Grammar: Direct & Indirect Speeches

Vocabulary: Phrasal Verbs

Analytical Writing: Memo Drafting

UNIT – IV

Media (Learning English)

The New Age – Homi Jehangir Bhabha (Master Minds)

Grammar: Concord

Vocabulary: Analogy

Analytical Writing: Information Transfer/ Data Interpretation (Tables, Pie charts, Bar graphs, Tree diagrams, Pictograms, etc.)

UNIT – V

The New Age – Vikram Sarabhai (Master Minds)

Grammar: Gerunds & Infinitives; Correction of Sentences

Vocabulary: Words often confused

Analytical writing – Comprehension, Expansions (of a given topic/ proverbs)

TEXT BOOKS

1. “Learning English”, Orient Longman Private Limited.JNTU edition,2008
2. EnakshiChatterjee, “Masterminds”, Orient Longman Private Limited ,Reprint-2002

REFERENCES

1. KoneruAruna, “Professional Communication”, Tata McGraw-Hill, New Delhi, 2007.
2. Rizvi, “Effective Technical Communication”, Tata McGraw-Hills, New Delhi, 2009.
3. Andrea J. Rutherford, “Basic Communication Skills for Technology”, Pearson Education., 1st edition, 2009
4. Kaplan and Baron's, “GRE and TOEFL’, Latest editions.2008

Course Educational Objectives

In this course, the students will learn

- To write letters and reports effectively in formal and professional situations.
- To speak and write effectively in English in real life situations.
- To read speedily and meaningfully.
- Both active and passive vocabulary.
- The decision-making, while thinking logically and analyzing situations carefully.

Course Outcomes

After the completion of this course, prospective engineers will have the ability to

- Use English language effectively in written and spoken English
- Express the right ideas in right context
- Manage the situation and negotiate business with good English communication
- Think and analyze the situations and make good presentations of their work and decisions
- prepare oneself to face interviews and also to participate in group discussions


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	END Exams
8	Problems using software	Numerical treatment	
9	Self study	Design / Exercises	

Detailed Lesson Plan

S.NO	TOPIC TO BE COVERED	Date		TLP	DM	AM
		Tentative	Actual			
UNIT-I						
1	Introduction	28-12-2015		2	1	1,2,3,5,7
2	Environment	29-12-2015		2	1,3	
3	Environment	30-12-2015		2	1,3	
4	Environment	02-01-2016		2	1,3	
5	Correction of sentences	04-01-2016		2	1,9	
6	Correction of sentences - Quiz	06-01-2016		3	1,9	
7	Satyendranath Bose	18-01-2016		2	1,9	
8	Satyendranath Bose	19-01-2016		2	1,9	
9	Satyendranath Bose	20-01-2016		3	1,9	
10	Report Writing	23-01-2016		2	1,9	
11	Report Writing	25-01-2016		2	1,9	
12	Report Writing	27-01-2016		2	1,9	
13	Report Writing - Assignment	30-01-2016		2	1	
UNIT-II						
14	Inspiration	01-02-2016		2	1,3	1,2,3,5,7
15	Inspiration	02-02-2016		2	1,3	
16	Inspiration - Tutorial	03-02-2016		3	1,3	
17	If-Clause	06-02-2016		2	1,9	
18	Question Tags	08-02-2016		2	1,9	
19	If-Clause, Question Tags - Quiz	09-02-2016		3	1,9	
20	Idioms and Phrases	10-02-2016		2	1,9	
21	Idioms and Phrases	15-02-2016		2	1,9	
22	Santi Swarup Bhatnagar	16-02-2016		2	1,3	
23	Santi Swarup Bhatnagar	17-02-2016		2	1,3	
24	Santi Swarup Bhatnagar - Tutorial	20-02-2016		3	1,3	
25	Resume, Statement of Purpose	18-02-2016		2	1,9	
26	Statement of Purpose	22-02-2016		2	1,9	
27	MID - I	23-02-2016 TO 27-02-2016				5
UNIT-III						
28	Human Interest	29-02-2016		2	1,3	1,2,3,5,7
29	Human Interest	01-03-2016		2	1,3	
30	Human Interest	02-03-2016		2	1,3	
31	Human Interest - Tutorial	05-03-2016		3	1,3	
32	Direct and Indirect Speeches	08-03-2016		2	1,9	
33	Direct and Indirect Speeches	09-03-2016		2	1,9	
34	Phrasal Verbs	14-03-2016		2	1,9	
35	Phrasal Verbs Direct and Indirect Speeches - Quiz	15-03-2016		3	1,9	
36	Memo Drafting	16-03-2016		2	1,9	
37	Memo Drafting	19-03-2016		2	1,9	
38	Meghanadh Saha	21-03-2016		2	1,3	
39	Meghanadh Saha	22-03-2016		2	1,3	
40	Memo Drafting ; Meghanadh Saha - Assignment	26-03-2016		3	1,9	
UNIT-IV						
41	Information Transfer	28-03-2016		2	1,9	
42	Media	29-03-2016		2	1,3	
43	Media - Tutorial	30-03-2016		2	1,3	
44	Concord	02-04-2016		2	1,9	
45	Homi Jahagir Bhaba	04-04-2016		2	1,3	

46	Homi Jahagir Bhaba	05-04-2016		2	1,3	1,2,3,5,7
47	Analogy	06-04-2016		2	1,9	
UNIT-V						
48	Vikram Sarabhai	11-04-2016		2	1,3	1,2,3,5,7
49	Vikram Sarabhai - Tutorial	12-04-2016		3	1,3	
50	Gerunds and Infinitives	13-04-2016		2	1,9	
51	Correction of sentences	16-04-2016		2	1,9	
52	Words often confused	18-04-2016		2	1,9	
53	Words often confused	19-04-2016			1,9	
54	Words often confused; Correction of sentences; Gerunds and Infinitives - Quiz	20-04-2016		3	1,9	
55	Expansions	23-04-2016		2	1,9	
56	Expansions	25-04-2016		2	1,9	
57	Comprehension	26-04-2016		2	1,9	
58	Comprehension; Expansions - Assignment	27-04-2016		3	1,9	
	MID-II	30-04-2016 To 07-05-2016				5

	Instructor	Course Coordinator	Module Coordinator	HOD
Name	Ch.Nagarjuna	Dr. B. Samrajya Lakshmi	Dr. B. Samrajya Lakshmi	Dr. A. Rami Reddy
Sign with Date				

	Lakireddy Bali Reddy College of Engineering College L.B.Reddy Nagar, Mylavaram , Krishna District, A.P DEPARTMENT OF INFORMATION TECHNOLOGY				
	LESSON PLAN				
	Subject :	APPLIED MATHEMATICS II- S 133			
	Academic Year :	2015-16	Semester :	II	Date: 28/12/15 To 30/04/16
	Year :	I	Section :	--	

Detailed Lesson Plan

S.NO	TOPIC TO BE COVERED	Date		TLP	DM	AM
		Tentative	Actual			
UNIT-I: LAPLACE TRANSFORMS AND INVERSE LAPLACE TRANSFORMS						
1	Course Objective, introduction, their applications	28/12/15		2	1	1,2,3,5,7
2	Laplace Transforms of Standard Functions	29/12/15		2,3	1	
3	Laplace Transforms of Standard Functions	30/12/15		2,3	1	
4	Problems	31/12/15		2,3	1	
5	First Shifting theorem, Change of Scale Property	2/1/16		2,3	1	
6	Multiplication and division by t	2/1/16		2,3	1	
7	Derivatives and integrals	4/1/16		2,3	1	
8	Problems	5/1/16		2,3	1	
9	Dirac’s Delta functions	6/1/16		2,3		
10	Unit Step function, Periodic function	7/1/16		2,3	1	
11	Inverse Laplace Transforms	8/1/16		2,3	1	
12	Multiplication and division by s	18/1/16		2,3	1	
13	TUTORIAL-1	19/1/16		3	1,9	
14	Derivatives and integrals	20/1/16		2,3	1	
15	Inverse L T using Partial Fractions	21/1/16		2,3	1	
16	Inverse L T using Partial Fractions	22/1/16		2,3	1	
17	TUTORIAL-2	23/1/16		3	1,9	
18	Convolution theorem	23/1/16		2,3	1	
19	Solving of O.D.E using L.T.	25/1/16		2,3	1	
20	Solving of O.D.E using L.T.	27/1/16		2,3	1	
21	Problems	28/1/16		2,3	1	
22	Assignment-I	29/1/16		3		
23	Quiz I	30/1/16		3		
UNIT II: FOURIER SERIES						
24	Introduction to Fourier series	30/1/16		2,3	1	
25	TUTORIAL-3	1/2/16		3	1,9	
26	Determination of Fourier coefficients	2/2/16		2,3	1	
27	Fourier Series Problems	3/2/16		2,3	1	
28	Fourier Series Problems	4/2/16		2,3	1	
29	TUTORIAL-4	5/2/16		3	1,9	
30	Even and Odd Functions	6/2/16		2,3	1	
31	Fourier Cosine and Sine Series	6/2/16		2,3	1	
32	Fourier Cosine and Sine Series	8/2/16		2,3	1	
33	TUTORIAL-5	9/2/16		3	1,9	
34	Fourier Series in an arbitrary interval	10/2/16		2,3	1	
35	Fourier Series in an arbitrary interval	11/2/16		2,3	1	
36	TUTORIAL-6	12/2/16		3	1,9	
37	Half-range Sine and Cosine series	13/2/16		2,3	1	
38	Half-range Sine and Cosine series	13/2/16		2,3	1	
39	Half-range series in an arbitrary interval	15/2/16		2,3	1	

40	TUTORIAL-7	16/2/16		3	1,9	1,2,3,5,7
41	Half-range series in an arbitrary interval	17/2/16		2,3	1	
42	Revision	18/2/16		2,3	1	
43	Revision	19/2/16		2,3	1	
44	Assignment-II	20/2/16		3		
45	Quiz II	20/2/16		3		
46	I MID EXAM	22/2/16				
47	I MID EXAM	23/2/16				
48	I MID EXAM	24/2/16				
49	I MID EXAM	25/2/16				
50	I MID EXAM	26/2/16				
51	I MID EXAM	27/2/16				
52	I MID EXAM	27/2/16				
UNIT III: FOURIER TRANSFORMS						
53	Fourier Integral theorem	29/2/19		2,3	1	1,2,3,5,7
54	Fourier Integral theorem	1/3/16		2,3	1	
55	Fourier sine and cosine integrals	2/3/16		2,3	1	
56	Fourier Transform	3/3/16		3	1	1,2,3,5,7
57	TUTORIAL-8	4/3/16		3	1,9	
58	Fourier Transform	5/3/16		2,3	1	
59	Sine and cosine transforms	5/3/16		2,3	1	
60	Sine and cosine transforms	8/3/16		2,3	1	
61	Properties	9/3/16		2,3	1	
62	Inverse Transform	10/3/16		2,3	1	
63	Inverse Transform	11/3/16		2,3	1	
64	TUTORIAL-9	14/3/16		3	1,9	
65	Finite Fourier Transforms	15/3/16		2,3	1	
66	Finite Fourier Transforms	16/3/16		2,3	1	
67	Problems	17/3/16		3	1	
68	Assignment-III	18/3/16		3		
69	Quiz III	19/3/16		3		
UNIT IV: Z -TRANSFORMS						
70	Introduction to Z-Transform	19/3/16		2,3	1	1,2,3,5,7
71	Properties	21/3/16		2,3	1	
72	Damping Rule	22/3/16		2,3	1	
73	Shifting Rule	24/3/16		2,3	1	
74	Initial and Final Value Theorems	26/3/16		2,3	1	
75	TUTORIAL-10	26/3/16		3	1,9	
76	Problems	28/3/16		2,3	1	
77	Inverse Z-Transform	29/3/16		2,3	1	
78	Inverse Z-Transform	30/3/16		2,3	1	
79	Convolution theorem	31/3/16		2,3	1	
80	Convolution theorem	1/4/16		2,3	1	
81	Sol. of difference equation by Z-Transform	2/4/16		2,3	1	
82	TUTORIAL-11	2/4/16		3	1,9	
83	Sol. of difference equation by Z-Transform	4/4/16		2,3	1	
84	Problems	5/4/16		2,3	1	
85	Assignment-IV	6/4/16		3		
86	Quiz IV	7/4/16		3		

87	TUTORIAL-12	11/4/16		3	1,9	1,2,3,5,7
UNIT-V: MULTIPLE INTEGRALS						
88	Multiple Integrals	12/4/16		2,3	1	1,2,3,5,7
89	Double integrals-Cartesian	13/4/16		2,3	1	
90	TUTORIAL 13	16/4/16		3	1,9	
91	Double integrals-Polar	16/4/16		2,3	1	
92	Triple integrals-Cartesian	18/4/16		2,3	1	
93	Triple integrals-Polar	19/4/16		2,3	1	
94	Triple integrals-Spherical	20/4/16		2,3	1	
95	TUTORIAL 14	21/4/16		3	1,9	
96	Change of order of Integration	22/4/16		2,3	1	
97	Change of order of Integration	23/4/16		2,3	1	
98	TUTORIAL 15	23/4/16		3	1,9	
99	Change of order of Integration	25/4/16		2,3	1	
100	Applications to Areas	26/4/16		2,3	1	
101	Applications to Areas	27/4/16		2,3	1	
102	Applications to Volumes	28/4/16		2,3	1	
103	Applications to Volumes	29/4/16		2,3	1	
104	Assignment UNIT V	30/4/16		3		
105	Quiz UNIT V	30/4/16		3		
106	II MID EXAM	2/5/16				
107	II MID EXAM	3/5/16				
108	II MID EXAM	4/5/16				
109	II MID EXAM	5/5/16				
110	II MID EXAM	6/5/16				
111	II MID EXAM	7/5/16				
112	II MID EXAM	7/5/16				

K. Jhansi Rani
Signature of faculty

Signature of Course Coordinator

Signature of HOD

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

L.B.Reddy Nagar, Mylavaram – 521 230. Andhra Pradesh, INDIA

Department of Science & Humanities

((COMMON TO CSE, IT, MECH, CIVIL, AERO))

Engineering Physics, Lesson Plan

Faculty Name		: P Vijaya Sirisha		Date : 28-12-2015	
Branch		: I B.Tech IT		Semester : II	
Subject & Code		: Engineering Physics&S238		A.Y. : 2015-16	
S.NO	Tentative Date	Topics to be covered	Actual Date	Number of classes	Delivery Method
1	28-12-15	General introduction		1	DM 1
2	30-12-15	General introduction		1	DM 1
3	31-12-15	General introduction		1	DM 1
4	02-01-16	UNIT I INTERFERENCE:		1	DM 1
		Introduction			
5	04-01-16	Superposition of waves		1	DM 1
6	06-01-16	Coherent sources		1	DM 1
7	07-01-16	Interference from thin films		1	DM 2
8	08-01-16	Wedge shaped film		1	
9	18-01-16	Newton's rings,		1	M 1
10	20-01-16	Tutorial		1	DM 1
11	21-01-16	POLARISATION: Introduction plane of vibration and plane of polarisation.		1	DM 1
12	22-01-16	polarization by reflection, Brewster's law		1	DM 1
13	23-01-16	,Geometry of Calcite crystal, Double refraction		1	DM 1
14	25-01-16	Nicol prism		1	DM 1
15	27-01-16	Quarter wave and half wave plates.		1	DM 2
16	28-01-16	Tutorial		1	
17	29-01-16	DIFFRACTION: Introduction – Diffraction and wave theory of light		1	DM 1
18	30-01-16	Comparison between Fresnel and fraunhofer diffractions,		1	DM 1
19	01-02-16	differences between interference and diffraction, fraunhofer Single slit diffraction		1	DM 1
20	03-02-16	intensity in single slit diffraction, calculating the intensity		1	DM 1
21	04-02-16	Double slit diffraction , Double slit interference and diffraction combined		1	DM 1
22	05-02-16	Diffraction grating- Grating spectrum		1	DM 2
23	06-02-16	Tutorial		1	DM 4
24	08-02-16	Assignment		1	DM 1
25	10-02-16	UNIT-II: PRINCIPLES OF QUANTUM MECHANICS:		1	DM 1
		Introduction to quantum mechanics			
26	11-02-16	de-Broglie hypothesis- Matter waves		1	DM 1
27	12-02-16	DavisSon and Germer experiment		1	DM 1
28	13-02-16	G.P Thomson experiment		1	DM 1
28	15-02-16	Schrödinger time independent wave equation Heisenberg's Uncertainty principle		1	DM 1
29	17-02-16	Physical significance of wave function Heisenberg's Uncertainty principle		1	DM 1
30	18-02-16	particle in a box		1	DM 1
31	19-02-16	Tutorial		1	DM 2

32	20-02-16	Assignment	1	DM 4
33	29-02-16	UNIT III LASERS: Introduction – characteristics of Lasers	1	
34	02-03-16	Principle of laser (Absorption, Spontaneous and stimulated emission of radiation)	1	
35	03-03-16	Einstein coefficients	1	
36	04-03-16	Population inversion,three and four level schemes	1	
37	05-03-16	Pumping schemes, block diagram of laser	1	
38	09-03-16	Ruby laser	1	
39	10-03-16	He-Ne gas laser	1	
40	11-03-16	Applications of laser	1	
41	12-03-16	Tutorial	1	
42	14-03-16	FIBER OPTICS Introduction- principle of optical fibre	1	
43	16-03-16	Acceptance angle –acceptance cone-numerical aperture	1	DM 1
44	17-03-16	Types of optical fibres	1	DM 1
45	18-03-16	optical fibres based on refractive index profile.	1	DM 1
46	19-03-16	Applications of optical fibers	1	DM 1
47	20-03-16	Tutorial	1	DM 1
48	21-03-16	Assignment	1	DM 1
49	23-03-16	UNIT-IV -: MAGNETIC MATERIALS: Magnetic parameters- origin of magnetic moment.	1	DM 1
50	24-03-16	Classification of magnetic materials- Dia,para ,ferro magnetic materials	1	DM 2
52	28-03-16	Anti ferromagnetic, ferrimagnetic materials-	1	DM 1
53	30-03-16	Tutorial	1	DM 1
54	31-03-16	domain theory of ferro magnetism	1	DM 1
55	01-04-16	Hysteresis curve-soft and hard magnetic materials,.	1	DM 1
56	02-04-16	applications of magnetic materials	1	DM 1
57	04-04-16	Tutorial	1	DM 2
58	06-04-16	Assignment	1	DM 4
59	07-04-16	UNIT V -: SUPERCONDUCTIVITY: Phenomenon,Critical Parameters	1	DM 1
60	09-04-16	Meissner Effect	1	DM 1
61	11-04-16	Type I, Type II Super conductors	1	DM 1
62	13-04-16	BCS theory of Super Conductivity	1	DM 1
63	16-04-16	Flux quantization	1	DM 2
64	18-04-16	Landon equations,penetration depth	1	DM 1
64	20-04-16	Josephson effects	1	DM 1
65	21-04-16	Applications of Super Conductors.	1	DM 1
66	22-04-16	Tutorial	1	DM 2
67	23-04-16	Assignment	1	DM 4
68	25-04-16	Revision	1	DM 1
69	27-04-16	Revision	1	DM 1
70	28-04-16	Revision	1	DM 1
71	29-04-16	Revision	1	DM 1
72	30-04-16	Revision	1	DM 1

Beyond the syllabus	
Total no of classes available as per academic callender	84
Number of classes required to complete the syllabus	74

Faculty Signature

H O D Signature

COURSE HANDOUT

PROGRAM	: B.Tech., II-Sem., IT
ACADEMIC YEAR	: 2015-16
COURSE NAME & CODE	: Electronic Devices and Circuits - S 224
L-T-P STRUCTURE	: 4-1-0
COURSE CREDITS	: 3
COURSE INSTRUCTOR	: M. Ramya Harika, Asst Professor
COURSE COORDINATOR	: K. Sasi Bhushan, Associate Professor

COURSE OBJECTIVE: This course provides the knowledge on basic electronic devices Diodes, Transistors and FETs operation. The course also gives the idea about designing of stability techniques required for transistors and rectifiers using diodes.

COURSE ARTICULATION MATRIX(Correlation between COs&POs,PSOs):

CO	Statement At the end of the course, student will be able to	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
1	Comprehend the behavior of energy bands in semi conductors.															
2	Analyze the operation and characteristics of various diodes.															
3	Precise the operation of BJT & FET															
4	Design the biasing techniques for BJT & FET															
5	Design of rectifiers & regulators with the Knowledge of diodes.															

Note: Enter Correlation Levels **1** or **2** or **3**. If there is no correlation, put '-'
1- Slight(Low), **2** - Moderate(Medium), **3** - Substantial (High).

BOS APPROVED TEXT BOOKS:

- 1 Jacob Millman, Christos C Halkias, "Electronic Devices and Circuits", Tata McGraw Hill,Publishers, New Delhi.

BOS APPROVED REFERENCE BOOKS:

- 1 R.L. Boylestad and Louis Nashelsky, Electronic Devices and Circuits, Pearson/Prentice Hall Publishers.
- 2 Thomas L.Floyd, Electronic Devices, Pearson Education Publishers.

COURSE DELIVERY PLAN (LESSON PLAN):

UNIT-I: Semiconductor Physics

S.No.	Topics to be covered	No. of	Tentative	Actual	Teaching	HOD
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		Classes Required	Date of Completion	Date of Completion	Learning Methods	Sign Weekly
1.	Introduction to Subject and course outcomes	1			TLM1	
2.	Introduction to UNIT-I and charged particles	1			TLM1	
3.	Energy band theory of crystals	1			TLM1	
4.	Energy band theory of Insulators, Conductors, Semiconductors	1			TLM1	
5.	Mobility and Conductivity	1			TLM1	
6.	Energy distribution of electrons in metals	1			TLM1	
7.	Electrons and Holes in an Intrinsic Semiconductors	1			TLM1	
8.	Conductivity of a semiconductor	1			TLM1	
9.	Carrier concentration in an intrinsic Semiconductors	1			TLM1	
10.	Donor and Acceptor Impurities	1			TLM1	
11.	Mass Action Law	1			TLM1	
12.	Charge densities in semiconductor	1			TLM1	
13.	Diffusion	1			TLM1	
14.	Carrier Lifetime	1			TLM1	
15.	Continuity Equation	1			TLM1	
16.	Hall Effect	1			TLM1	
17.	TUTORIAL-1	1			TLM3,4	
18.	TUTORIAL-2	1			TLM3,4	
19.	Assignment/Quiz	1			TLM6	
No. of classes required to complete UNIT-I		19	No. of classes taken:			

UNIT-II: Junction Diode and Special Diodes

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD Sign Weekly
20.	Qualitative theory of PN Junction	1			TLM1	
21.	Band Structure of an open circuited PN junction	1			TLM1	
22.	Current components in a PN Diode	1			TLM1	
23.	PN Junction diode operation in Forward bias and Reverse bias	1			TLM1	
24.	Qualitative theory of the PN diode currents- Diode current equation	1			TLM1	
25.	Law of the junction ,Forward currents, Reverse Saturation Current	1			TLM1	
26.	Volt Ampere Characteristics of Diode, Temperature dependence of Diode, Diode Resistance	1			TLM1	
27.	Diode Capacitance- Transition Capacitance	1			TLM1	
28.	Diffusion Capacitance	1			TLM1	
29.	Zener Diode	1			TLM1	
30.	Tunnel Diode	1			TLM1	
31.	Varactor Diode, Photo diode	1			TLM1	
32.	LED, Liquid Crystal Diode	1			TLM1	
33.	TUTORIAL-3	1			TLM3,4	
34.	TUTORIAL-4	1			TLM3,4	

35.	Assignment/Quiz	1			TLM6	
No. of classes required to complete UNIT-II		16	No. of classes taken:			

UNIT-V: Rectifiers, Filters and Regulators

UNIT-II Rectifiers, Filters and Regulators						
S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD Sign Weekly
36.	Half wave rectifier with charecteristics	1			TLM1	
37.	Full wave rectifier with center tap transformer and its charecteristics	1			TLM1	
38.	Full Wave Rectifier with Bridge circuit and its charecteristics	2			TLM1	
39.	Comparision of rectifiers, Harmonic components in a rectifier circuits.	1			TLM1	
40.	Inductor Filter, Capacitor Filter	1			TLM1	
41.	L-Section Filter, π -Section Filter	1			TLM1	
42.	Multiple LSection and Pi-Section Filters	2			TLM1	
43.	Voltage Regulation using Zener diode	1			TLM1	
44.	design of a Zener regulator	1			TLM1	
45.	TUTORIAL-5	1			TLM3,4	
46.	TUTORIAL-6	1			TLM3,4	
47.	Assignment/Quiz	1			TLM6	
No. of classes required to complete UNIT-III		14	No. of classes taken:			

UNIT-III: Bipolar Junction Transistors and Field Effect Transistors

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD Sign Weekly
48.	Introduction to Three terminal Devices	1			TLM1	
49.	PNP and NPN Transistors	1			TLM1	
50.	Transistor Current components- Emitter Efficiency, Transport Factor	1			TLM1	
51.	Large Signal Current Gain	1			TLM1	
52.	Common Base, Base width modulation	2			TLM1	
53.	Common Emitter	1			TLM1	
54.	Common Collector	1			TLM1	
55.	Ebers-Moll Model.	1			TLM1	
56.	Comparison between FET and BJT	1			TLM1	
57.	JFET Construction, Operation, Classification	1			TLM1	
58.	Drain and Transfer Characteristics of JFET	1			TLM1	
59.	MOSFET Characteristics- Enhancement	1			TLM1	
60.	Depletion Mode	1			TLM1	
61.	Photo Transistor	1			TLM1	
62.	Silicon Controlled Rectifier	1			TLM1	

63.	Unijunction Transistor, UJT relaxation oscillator	1			TLM1	
64.	TUTORIAL-7	1			TLM3,4	
65.	TUTORIAL-8	1			TLM3,4	
66.	Assignment/Quiz	1			TLM3,4	
No. of classes required to complete UNIT-IV		20	No. of classes taken:			

UNIT-V : BJT Biasing and FET Biasing

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD Sign Weekly
67.	Transistor Biasing and Stability- DC load line, Operating Point, AC load line	1			TLM1	
68.	Thermal Instability, Stability factors S_S, S_I, S_{II}	1			TLM1	
69.	Fixed Bias	1			TLM1	
70.	Collector to Base Bias	1			TLM1	
71.	Self Bias	1			TLM1	
72.	Thermal Concepts- Thermal Runaway, Thermal Resistance, Thermal Stability, Condition to avoid Thermal Runaway	1			TLM1	
73.	Bias Compensation Techniques- Diode Compensation for V_{BE} , Diode Compensation for I_{CO}	2			TLM1	
74.	Different FET biasing methods	2			TLM1	
75.	TUTORIAL-9	1			TLM3,4	
76.	TUTORIAL-10	1			TLM3,4	
77.	Assignment/Quiz	1			TLM3,4	
No. of classes required to complete UNIT-V		11	No. of classes taken:			

Contents beyond the Syllabus

S.No.	Topics to be covered	No. of Classes Required	Tentative Date of Completion	Actual Date of Completion	Teaching Learning Methods	HOD Sign Weekly
78.	Diode applications	1			TLM1	
79.	Transistor act as amplifier	1			TLM1	

Teaching Learning Methods

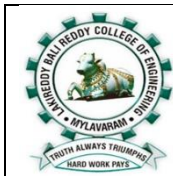
TLM1	Chalk and Talk	TLM4	Problem Solving	TLM7	Seminars or GD
TLM2	PPT	TLM5	Programming	TLM8	Lab Demo
TLM3	Tutorial	TLM6	Assignment or Quiz	TLM9	Case Study

EVALUATION PROCESS:

Evaluation Task	COs	Marks
Assignment/Quiz – 1	1	A1=5
Assignment/Quiz – 2	2	A2=5
I-Mid Examination	1,2	B1=20
Assignment/Quiz – 3	3	A3=5
Assignment/Quiz – 4	4	A4=5

Assignment/Quiz – 5	5	A5=5
II-Mid Examination	3,4,5	B2=20
Evaluation of Assignment/Quiz Marks: $A=(A1+A2+A3+A4+A5)/5$	1,2,3,4,5	A=5
Evaluation of Mid Marks: $B=75\% \text{ of Max}(B1,B2)+25\% \text{ of Min}(B1,B2)$	1,2,3,4,5	B=20
Cumulative Internal Examination : A+B	1,2,3,4,5	A+B=25
Semester End Examinations	1,2,3,4,5	C=75
Total Marks: A+B+C	1,2,3,4,5	100

Smt. M.Ramya Harika	Mr.K.Sasi Bhushan	Mr.Y.Amar Babu	Dr.M.Suman	Prof.B.Ramesh Reddy
Course Instructor	Course Coordinator	Module Coordinator	Research Coordinator	BOS Chairman&HOD



Lakireddy Balireddy College of Engineering College

L.B.Reddy Nagar, Mylavaram , Krishna District, A.P

DEPARTMENT OF INFORMATION TECHNOLOGY

LESSON PLAN

Subject : **DATA STRUCTURES(DS) - S178**

Academic Year : **2015-16**

Semester : **II**

Date: **08.12.2015**

To **09.04.2016**

S178 – DATA STRUCTURES

Lecture: 5 Periods/week

Internal Marks : 25

Tutorial: 1

External Marks : 75

Credits : 4

External Examination : 3 Hrs

UNIT - I

Algorithm Analysis:

Mathematical Background, Model, Analysis and Run Time Calculations,

Lists: Abstract Data Types, List using arrays and pointers, Singly Linked, Doubly Linked, Circular Linked Lists, Polynomial ADT.

UNIT – II:

Stacks: The Stack: Definition, operations, implementation using arrays, linked list and Stack

Applications: Infix to postfix expression conversion, Evaluation of Postfix expressions, balancing the symbols.

Queue: definition, operations, implementation using arrays, linked list & its Applications. Circular queue: definition & its operations, implementation, De queue: definition & its types, implementation.

UNIT - III

Searching: Linear and Binary Searching. Sorting: Insertion Sort, Selection sort, Shell Sort, Heap Sort, Merge Sort, Quick Sort, and Bucket Sort.

UNIT - IV

Trees: Terminology, Binary Trees: definition, types of binary trees, Representation, Implementation (linked list), Tree traversals: Recursive techniques, Expression Tress, Search Tree: Binary Search Tree-search, insert, Delete, Balanced Tree –Introduction to AVL tree and Rotations.

UNIT - V

Graphs: Fundamentals, Representation of graphs, Graph Traversals: BFS, DFS, Minimum cost spanning tree: Definition, Prim's Algorithm, Kruskal's algorithm.

Hashing: Hash Table, Hash Function, Collision resolution Techniques- separate Chaining, open addressing, rehashing, extendible hashing.

TEXT BOOKS :

- 1 Mark Allen Weiss, "Data Structures and Algorithm Analysis in C", Pearson Education, 2nd edition.
2. ReemaThareja ,Data Structures using c , Oxford Publications.
3. N.B.Venkateswarlu and E.V.Prasad ,C and Data Structures.

REFERENCES.

1. Langson, Augenstein&Tenenbaum, 'Data Structures using C and C++', 2nd ed, PHI.
2. RobertL.Kruse, Leung and Tando, 'Data Structures and Program Design in C', 2nd edition, PHI.
3. D Samantha ,Classic Data Structures.

Pre-requisite:

- Students should have a good knowledge in C Programming Language

Course Educational Objectives(CEOs):

To make students familiar with :

- Writing algorithms to implement operations involved in different data structures
- Implement stack and queue using arrays as well as linked list
- Apply stack and queue to write some complex algorithms
- Implement different types of trees and their application
- Implement various searching and sorting techniques
- Use Hash Tables to handle large amount of data

DATA STRUCTURES

Course Outcomes (COs):

By the completion of the course, the students are able to:

CO1: Analyze worst-case running times of algorithms using asymptotic analysis and implement various data structures like linked lists.

CO2: Understand and implement stacks and queues using arrays and linked lists.

CO3: Analyze and implement various searching and sorting algorithms.

CO4: Build various tree structures like Binary Trees, Binary Search Trees and AVL Trees.

CO5: Know the various graph traversal algorithms, implement suitable Hash Tables to handle large amount of data and design appropriate hash functions and collision-resolution algorithms.

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	

48	Unit-3: Searching techniques- Linear, Binary			2	1	1,3, 5,7
49	Linear, Binary			2	1	
50	Introduction to sorting : Insertion sort			2	1,9	
51	Selection sort			2	1	
52	Shell sort			2	1	
53	Merge sort			2	1,9	
54	Merge sort			2	1,9	
55	Quick sort			2	1,9	
56	Tutorial Class			2	1	
57	Quick sort			2	1,9	
58	Heap sort			2	1,2	
59	Heap sort			2	1,2	
60	Bucket sort			2	1,9	
61	Bucket sort			2	1,9	
62	Assignment			2	1,9	
63	Review of UNIT-3			2	1,9	
UNIT –IV						
64	Unit-4: Introduction to trees ,Tree terminology			2	1,9	
65	Representations,binary trees ADT			2	1,2	
66	operations			2	1,2	
67	binary tree traversals			2	1,2	
68	binary tree traversals			2	1,2	
69	Implementation of trees using Lists			2	1,2	
70	Implementation of trees using Lists			2	1,2	
71	Binary Search Tree introduction and ADT					
72	Properties and operations			2	1,2	
73	Tutorial Class			2	1,2	
74	Implementation of operations			2	1,2	
75	Implementation of operations			2	1,2	
76	Implementation of operations			2	1,2	
77	Implementation of operations			2	1,2	
78	Balanced Tree: Introduction to AVL Trees, balance factor			2	1,2	
79	Operations with rotations			2	1,2	
80	Operations with rotations			2	1,2	
81	Assignment/Quiz			2	1,2	
82	Review of UNIT-4			2	1,2	
UNIT –V:						
83	Unit 5: Graphs: Fundamentals			2	1,9	1,3, 5,7
84	Representation of graphs			2	1,9	
85	Graphs Traversals: BFS, DFS				1,9	
86	Graphs Traversals: BFS, DFS			2	1,9	
87	MCST definition, Prim’s Algorithm			2	1,9	
88	Kruskal’s Algoritm			2	1,9	
89	Tutorial			2	1	
90	Introduction to hashing & Hash Functions			2	1,9	
91	Collision resolution techniques			2	1,9	

92	Separate chaining, Open addressing			2	1,9	
93	Assignment			2	1,9	
94	Rehashing, Extendible Hashing			2	1,9	
	Review of UNIT-5				1,9	
95				2		
96	TOPICS OUT OF COVERAGE			2	1,9	
97	TOPICS OUT OF COVERAGE			2	1,9	
II-MID EXAMS						

Assessment Summary:

Assessment Task	Weight age (Marks)	Course Outcomes				
		CO1	CO2	CO3	CO4	CO5
Assignments/ Quizzes/ Tutorials	05					
Surprise Tests	--					
Mid Exams	20					
Model Exams	--					
End Exam	75					
Attendance	--					
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
S178	I						2	1	1		2				3	2	1
	II						2	1	1		2				3	2	1
	III						2	1	1		2				3	2	1
	IV						2	1	1		2				3	2	1
	V						2	1	1		2				3	2	1

	Instructor	Course Coordinator	Module Coordinator	HOD
Name	LAVANYA K			Dr. D.Naga Raju
Sign with Date				



**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING,
(AUTONOMOUS)
L.B.Reddy Nagar, Mylavaram – 521 230. Andhra Pradesh, INDIA
Department of Science & Humanities
(COMMON TO CSE, IT, MECH, CIVIL, AERO)
Engineering Physics Lab-I, Lesson Plan**

Faculty Name : P .VIJAYA SIRISHA

Date : 28-12-15

Branch : I B. Tech – IT

Semester : II

Subject & Code : Engineering Physics Lab L-142

A.Y. : 2015-

16

S.No	No.of hrs	Date	Planned Topics	Topics Covered	Remarks
1	03	29-12-15	Introduction		
2	03	05-01-16	Demonstration		
3	03	19-01-16	Experiment 1		
4	03	02-02-16	Experiment 2		
5	03	09-02-16	Experiment 3		
6	03	16-02-16	Experiment 4		
7	03	23-02-16	MID I		
8	03	01-03-16	Experiment 5		
9	03	08-03-16	Demonstration		
10	03	15-03-16	Experiment 6		
11	03	22-03-16	Experiment 7		
12	03	29-03-16	Experiment 8		
13	03	05-04-16	Experiment 9		
14	03	12- 04-16	Revision		
15	03	19-04-16	Internal Exam		
16	03	26-04-16	Internal Exam		

Faculty Signature

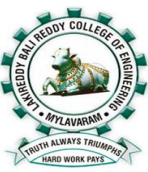
Signature of HOD

Schedule of Experiments**II SEM****INFORMATION TECHNOLOGY****A.Y:2015-16**

<div>S.No</div>	Date	Name of the Experiment
1	14-12-2015	Introduction To Engineering Drawing
2	21-12-2015	Experiment-1
3	28-12-2015	Experiment-2
4	04-01-2016	Experiment-3
5	11-01-2016	Experiment-4
6	18-01-2016	Experiment-5
7	25-01-2016	Experiment-6
8	08-02-2016	Experiment-7
9	15-02-2016	Experiment-8
10	22-02-2016	Experiment-9
11	01-03-2016	Experiment-10
12	08-03-2016	Experiment-11
13	15-03-2016	Remedial Lab/Rivision
14	22-03-2016	Remedial Lab/Rivision
15	04-04-2016	Internal Examination

Lab Incharge

Head of the Department

	Lakireddy Balireddy College of Engineering College L.B.Reddy Nagar, Mylavaram , Krishna District, A.P DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING			
	LESSON PLAN			
	Subject :	DATA STRUCTURES(DS) - L128		
	Academic Year :	2015-16	Semester :	II
	Year :	I	Section :	Date: 28.12.2015 To 30.04.2016

L128 – DATA STRUCTURES LAB

Lab.	: 3 Periods/week	Internal Marks	: 25
Tutorial	:	External Marks	: 50
Credits	: 2	External Examination	: 3 Hrs

Lab Programs:

S.No.	Name of the program
1	Write a C program to implement various operations on List using arrays.
2	Write a C program to implement various operations on Single linked List using pointers.
3	Write an interactive C program to create a linear linked list of customer names and their telephone numbers. The program should be menu-driven and include features for adding a new customer, deleting an existing customer and for displaying the list of all customers.
4	Write a C program to create a circular linked list so that the input order of data items is maintained. Add the following functions to carry out the following operations on circular single linked lists. a) Count the number of nodes. b) insert a node c) delete a node
5	Write a C program that will remove a specified node from a given doubly linked list and insert it at the end of the list on an existing list. Also write a function to display the contents of the list.
6	Write a C program to implement a stack using array & linked list in which Push, Pop and display can be performed.
7	Write a program to convert infix expression to post fix expressions using array implementation of stack
8	Write a program for evaluating post fix expressions using array implementation of stack
9	Write a C program to implement a queue using arrays and linked list in which insertions, deletions and display can be performed.
10	Write a C program to implement insertion sort & shell sort
11	Write a C program to implement Selection sort.
12	Write a C Program to implement Merge Sort
13	Sort a sequence of n integers using Quick sort technique and then search for a key in the sorted array using Binary search, linear search techniques.
14	Write a C program to Heap sort
15	Write a C program to construct a binary tree and do inorder, preorder and post order traversals, printing the sequence of nodes visited in each case.
16	Write a C program to implement BST operations- insert, search and delete
17	Write a C program to implement the following graph Traversals a) DFS b) BFS

Pre-requisites:

- Students should have a good knowledge in C Programming Language

Course Educational Objectives(CEOs):

The course content enables students to:

1. Write algorithms to implement various operations involved in different data structures.
2. Implement stacks, queues and apply them to write complex algorithms.
3. Implement different tree structures.

Course Outcomes(COs):

By the completion of the course, the students are able to:

CO1. Implement various data structures like linked list, stacks, queues and trees.

CO2. Implement various searching, sorting and graph traversal techniques.

Session No	Program to be executed	Date	Remarks
1	Structure programs	28.12.2015	Cycle-1
2	1. Write a C program to implement various operations on List using arrays. 2. Write a C program to implement various operations on Single linked List using pointers.	04.01.2016	
3	3. Write an interactive C program to create a linear linked list of customer names and their telephone numbers. The program should be menu-driven and include features for adding a new customer, deleting an existing customer and for displaying the list of all customers.	18.01.2016	
4	4. Write a C program to create a circular linked list so that the input order of data items is maintained. Add the following functions to carry out the following operations on circular single linked lists. a) Count the number of nodes. b) insert a node c) delete a node	25.01.2016	
5	5. Write a C program that will remove a specified node from a given doubly linked list and insert it at the end of the list on an existing list. Also write a function to display the contents of the list. 6. Write a C program to implement a stack using array & linked list in which Push, Pop and display can be performed.	01.02.2016	
6	7. Write a program to convert infix expression to post fix expressions using array implementation of stack 8. Write a program for evaluating post fix expressions using array implementation of stack	08.02.2016	
7	9. Write a C program to implement a queue using arrays and linked list in	15.02.2016	

	which insertions, deletions and display can be performed.		Cycle-2
8	10. Write a C program to implement insertion sort& shell sort	29.02.2016	
9	11. Write a C program to implement Selection sort. 12. Write a C Program to implement Merge Sort	14.03.2016	
10	13. Sort a sequence of n integers using Quick sort technique and then search for a key in the sorted array using Binary search, linear search techniques.	21.03.2016	
11	14. Write a C program to Heap sort	28.03.2016	
12	15. Write a C program to construct a binary tree and do inorder, preorder and post order traversals, printing the sequence of nodes visited in each case.	04.04.2016	
13	16. Write a C program to implement BST operations- insert, search and delete	11.04.2016	
14	17. Write a C program to implement the following graph Traversals a) DFS b) BFS	18.04.2016	
15	LAB INTERNAL	25.04.2016	

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	

Assessment Summary:

Assessment Task	Weight age (Marks)		
		CO1	CO2
Assignments	--		
Quizzes	--		
Tutorials	--		
Surprise Tests	--		

Internal Exams	10		
Day-to-Day Evaluation	10		
Lab Record	05		
End Exam	50		
Total	75		

Mapping Course Outcomes with Programme Outcomes:

Course Code	Unit	Course Outcomes		Programme Outcomes										
		1	2	a	B	c	d	e	f	g	h	i	j	k
L128	I	S		M	L									
	II	S			L									
	III		S	L	L									
	IV	S			L									
	V		S		L									

	Instructor	Course Coordinator	Module Coordinator	HOD
Name	K Raja Sekhar			Dr. D. Naga Raju
Sign with Date				

LAKIREDDY BALIREDDY COLLEGE OF ENGINEERING
L.B. Reddy Nagar, Mylavaram – 521 230
 Department of Information Technology
IT WORKSHOP LAB CYCLE AY: 2015-16
COURSE ASSESSMENT

Faculty Name : Mr. A.Gopi Suresh

Subject Name : IT WORKSHOP **Code** : L154

Year : I **Semester** : II

Degree : B.Tech **Program me** : IT

AY : 2014-2015

COURSE EDUCATIONAL OBJECTIVES:

This course introduces to learn fundamentals of computer and its parts , Assembly and disassembling of computer and its peripheral devices ,Installation of operating systems , Trouble shooting of hardware and software and Exposure to internet, MS office and Photoshop packages.

OUTCOMES:

At the end of the course students will be able to:

CO1: Develop skill in S/W and H/W trouble shooting, and solve the problems of assembling and OS installation.

CO2: Develop skill in using office suite.

CO3: Develop skill in using tools like RAPTOR, LaTeX and adobe Photoshop.

LAB SCHEDULE:

WEEK NUMBER	DATE (Tentative)	PROGRAM
1	22-02-2015	Cycle 1 - PC Hardware Task 1: Identify the peripherals of a computer, components in a CPU and its functions. Draw the block diagram of the CPU along with the configuration of each peripheral and submit to your instructor. Task 2: Every student should disassemble and assemble the PC back to working condition. Lab instructors should verify the work and follow it up with a Viva. Also students need to go through the video which shows the process of assembling a PC. A video would be given as part of the course content
2	01-03-2015	Cycle -2 Task 1: Every student should individually install MS windows on the personal computer. Lab instructor should verify the installation and follow it up with a Viva.
3	08-03-2015	Cycle -3 Task -1: Hardware Troubleshooting Task 2: Software Troubleshooting
4	15-03-2015	Cycle -4 Task 1: Orientation & Connectivity Boot Camp Task 2: Web Browsers, Surfing the Web Task 3: Search Engines Task 4: Cyber Hygiene
5	22-03-2015	Cycle -5 Task 1: Word Orientation.
6	29-03-2015	Task 2: Using word to create project certificate
7	05-04-2015	Cycle -6 Task 3: Creating project abstract using word.
8	19-04-2015	Task 4: Creating a Newsletter using word.
9	26-04-2015	Cycle -7 Task 1: Excel Orientation.
10	03-05-2015	Task 2: Calculating GPA
11	10-05-2015	Cycle -8

		Task1: power point Orientation
12	30-06-2015	Task 2: Topic covered during this task includes: Hyperlinks, Inserting -Images, Clip Art, Audio, Video, Objects, Tables and Charts
13	07-06-2015	Cycle -9 Task 1: photo shop Orientation
14	14-06-2015	Cycle-10 Task 1: Students will be working on www.blogspot.com to create own free blog with Blogger
15	21-06-2015	Cycle-11 Task 1: Tips and tricks. Keyboard shortcuts, taskbar,screen shot, Taking advantage of search, Task Manager, Power option, schedule tasks, user accounts, disk management, device manager, shared folders and folder options
16	28-06-2015	LAB INTERNAL EXAM

Signature of the Faculty

Head of the Department