DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Instructor : **Ganga Jyothi**

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Permanent Address : **Staff room location: 5**

Kunnathpadath House

PJRA 14 ,P.J Antony Road……..

Palarivattom P.O

Kochi -682025

Course name : **RT 804 Artificial Intelligence**

Objective of the course : **Artificial Intelligence attempts not just to understand the human behaviour but also trying to build intelligent entities.This subject covers about problem solving method ,,game playing,knowledgebase concepts and prolog**

LECTURE SCHEDULE

Unit No.	Topics to be covered	No. of hours	Schedule	
			From	To
1	Introduction about AI	1	30-12-08	30-12-08
	AI definition and application	1	31-12-08	31-12-08
	Problem and problem spaces	2	02-01-09	02-01-09
	Example Problems , Problem Solving by Searching	1	05-01-09	05-01-09
	Searching Strategies -Breadth First Search, Uniform Cost Search	1	06-01-09	06-01-09
	Depth First Search, Depth Limited Search + Tutorial (Problem Characteristics)	2	09-01-09	09-01-09
	Bidirectional search,Constraint satisfaction Search	1	12-01-09	12-01-09
2	Informed Search ,A* algorithm	2	13-01-09	14-01-09
	Heuristic functions,Inventing heuristic function,heuristic for CSP	2	16-01-09	16-01-09
	Iterative deepening	1	20-01-09	20-01-09
	Hill climbing	1	21-01-09	21-01-09
	Simulated Annealing	2	23-01-09	23-01-09

3	Game playing and knowledge structure	1	28-01-09	28-01-09
	Games as search problems- Imperfect decisions,evaluation function	2	30-1-09	30-1-09
	Alpha -Beta pruning+ Tutorial (State of art games)	2	06-02-09	06-02-09
	Introduction to frames and semantic nets	2	09-02-09	10-02-09
4	Knowledge and reasoning	1	11-02-09	11-02-09
	Review of representation and reasoning with logic	1	13-02-09	13-02-09
	Inference in First order logic	2	16-02-09	17-02-09
	Inference rules involving quantifiers + Tutorial	2	18-02-09	20-02-09
	Modus ponens ,unification	2	24-02-09	25-02-09
	Forward and backward chaining	1	25-02-09	25-02-09
	Resolution	1	27-02-09	27-02-09
5	Introduction to Prolog	1	06-03-09	06-03-09
	Representing facts	1	10-03-09	10-03-09
	Recursive Search	2	11-03-09	13-02-09
	Abstract data types	1	16-03-09	16-03-09
	Alternative search Strategies	2	17-03-09	18-03-09
	Meta Predicates	2	20-03-09	23-03-09
	Matching and evaluation	1	24-03-09	24-03-09
	Meta Interpreters	1	25-03-09	25-03-09
	Semantic nets and frames	2	27-03-09	30-03-09

CLASS NOTES PREPARATION PLAN

Unit No.	Topic	Text Book	Page No.
1	AI definition and application areas,	Russel	29-33, 55-5
	Example problems	Russel	92-96
	Problem and problem spaces, Problem Characteristics	Rich E	40-48
	Searching Strategies -Breadth First Search, Uniform Cost Search		87-90

		Russel	
	Depth First Search, Depth Limited Search ,Bidirectional search,Constraint satisfaction Search	Russel	90-109
2	Informed Search ,A* algorithm, Heuristic functions,Inventing heuristic function,heuristic for CSP, Hill climbing,Simulated Annealing	Russel	122-143
	Iterative deepening	“”	100
3	Games as search problems- Imperfect decisions,evaluation function, Alpha -Beta pruning,	“”	189-203
	State of art games	“”	208-211
4	Knowledge and reasoning	Russel	220-222
	Review of representation and reasoning with logic		222-245
	Inference in First order logic. Inference rules involving quantifiers		268-306
	Modeus ponens,Unification		200-306
	Forward and Backward chaining		308-323
	Resolution		322-336
5	Introduction to Prolog, Representing facts, Recursive Search, Abstract data types,Alternative search Strategies , Meta Predicates, Matching and evaluation, Meta Interpreters, Semantic nets and frames	George F Luger	603-656

Name of the text Books:

T1: Modules (1,2,3,4)

Artificial Intelligence (Second edition)---Stuart Russel and Peter Norvig

Artificial Intelligence ----Elaine Rich

T2: Module 5

Artificial Intelligence ----George Luger

Course Instructor : Sujith Kumar P.S

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e-mail ID : …….

Permanent Address : Asst Professor in cse dept **Staff room location:** **Staff room No: ……**

Course name : Computer graphics Lab (R807)……

Objective of the course : It deals with familiarization of different computer graphics applications

LAB SCHEDULE

No.	Experiments	No. of hours	Schedule	
			From	To
1	DDA Line drawing algorithm.	2	3/1/2009	15/1/2009
2	Bresenham's Line drawing algorithm	2	17/1/2009	21/1/2009
3	Bresenham's Circle drawing algorithm	2	23/1/2009	27/1/2009
4	2D Transformations- Translation, Scaling,Reflection,Rotation and shearing.	2	29/1/2009	5/2/2009
5	Mid-Point Circle algorithm	2	10/2/2009	12/2/2009
6	Mid-Point ellipse algorithm.	2	17/2/2009	19/2/2009
7	Line clipping Using Cohensutherland algorithm	2	24/2/2009	26/2/2009
8	Bouncing Ball	2	5/3/2009	10/3/2009

Course Instructor : LISHA KURIAN

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Staff room location: Lab3&4

Course name : RT803 PRINCIPLES OF PROGRAMMING LANGUAGES

Objective of the course : To understand the role of programming languages ,its syntax and semantics, declaration, implementation,storage management and exception handling.

LECTURE SCHEDULE

Unit No.	Topics to be covered	No. of hours	Schedule	
			From	To
1	Introduction	1	20/1/09	20/1/09
1	Role of programming languages	1	21/1/09	21/1/09
1	Effects of environments on languages	1	22/1/09	22/1/09
1	Language design issue	1	23/1/09	23/1/09
1	Virtual computers and binding times	1	28/1/09	28/1/09
1	Language paradigm	2	29/1/09	30/1/09
2	Specification &implementation of elementary data types	1	5/2/09	5/2/09
2	Declarations, type checking and type conversion	1	6/2/09	6/2/09
2	Assignment and Initialisation	1	10/2/09	10/2/09
2	Structured data types	1	11/2/09	11/2/09
2	Specification & Implementation of data structure types	1	12/2/09	12/2/09
2	Declarations and type checking for data structures.	1	13/2/09	13/2/09
3	Abstract data types	1	17/2/09	17/2/09
3	Encapsulation by subprogram	1	18/2/09	18/2/09
3	Type definition	1	19/2/09	19/2/09
3	Storage management	1	20/2/09	20/2/09
3	Sequence Control ,Implicit and Explicit sequence	2	24/2/09	25/2/09

	control			
3	sequencing with arithmetic expressions	1	26/2/09	26/2/09
3	sequence control between statements	1	27/2/09	27/2/09
4	Subprogram sequence control	2	5/3/09	6/3/09
4	attributes of data control	1	10/3/09	10/3/09
4	Shared data in subprograms	2	11/3/09	12/3/09
4	Abstract data types revisited	1	13/3/09	13/3/09
4	Inheritance, Polymorphism - *Assignment 1*	1	17/3/09	17/3/09
5	Advances in Language design	1	18/3/09	18/3/09
5	Variations of subprogram control	1	19/3/09	19/3/09
5	Parallel programming	2	20/3/09	24/3/09
5	Introduction to exception handling - Exception handling in JAVA *-Assignment 2*	1	25/3/09	25/3/09
5	Hardware developments	1	26/3/09	26/3/09
5	software architecture.	1	27/3/09	27/3/09

CLASS NOTES PREPARATION PLAN

Unit No.	Topic	Text Book	Page No.
1	Introduction	T1	2
1	Role of programming languages	T1	9
1	Effects of environments on languages	T1	23
1	Language design issue	T1	33
1	Virtual computers and binding times	T1	45
1	Language paradigm	T1	55
2	Specification &implementation of elementary data types	T1	107
2	Declarations, type checking and type conversion	T1	119
2	Assignment and Initialisation	T1	127
2	Structured data types	T1	142
2	Specification & Implementation of data structure types	T1	143
2	Declarations and type checking for data structures.	T1	149
3	Abstract data types	T1	196
3	Encapsulation by subprogram	T1	200
3	Type definition	T1	209
3	Storage management	T1	216
3	Sequence Control , Implicit and Explicit sequence control	T1	238
3	sequencing with arithmetic expressions	T1	239
3	sequence control between statements	T1	264
4	Subprogram sequence control	T1	286
4	attributes of data control	T1	294
4	Shared data in subprograms	T1	311
4	Abstract data types revisited	T1	351
4	Inheritance, Polymorphism - *Assignment 1*	T1	358
5	Advances in Language design	T1	375
5	Variations of subprogram control	T1	377
5	Parallel programming	T1	385
5	Introduction to exception handling - Exception handling in JAVA *-Assignment 2*	T1,T2	377(T1) 122(T2)
5	Hardware developments	T1	433
5	software architecture.	T1	438

Name of the text Books:

T1 : Programming Languages, Design & Implementation - Terrence W. Pratt, Marvin V. Zelkowitz, Pearson Education Asia / Prentice Hall of India

T2:Programming in JAVA2 - R . Rajaram

Course Instructor	**:**	**Nimmi M K**		
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e-mail ID	**:**	**nimmykishore@gmail.com**		
Permanent Address	**:**	**Lecturer,CS Dept**	**Staff room location:**	**Computer lab 1 &2**
Course name	**:**	**High Performance Computing**		
Objective of the course	**:**	**It deals with advanced computer architectures,theories of parallel computing,optimal resource allocation,fast algorithms,efficient programming languages and application requirements of cost effective computer systems to meet the demands in various filelds.**		

LECTURE SCHEDULE

Unit No.	Topics to be covered	No. of hours	Schedule	
			From	To
1	Introduction to parallel processing	1	29/12/2008	29/12/2008
1	Generation of Computer systems,Trends towards parallel processing	2	30/12/2008	30/12/2008
1	Paralellism in Uniprocessor systems-2 uniprocessor architectures,parallel processing mechanisms used in uniprocessor systems	3	31/12/2008	3/1/2008
1	Parallel Computer structures-pipeline computers,array processors,multiprocessor systems	2	5/1/2009	6/1/2009
1	Architectural classification schemes	2	7/1/2009	9/1/2009
1	Tutorial-Indian Contribution to parallel processing	1	12/1/2009	12/1/2009
2	Principles of pipelining & vector processing-linear pipeling,4 factors of pipelining	2	13/1/2009	13/1/2009
2	Classification of pipeline processors-general pipelines	2	14/1/2009	16/1/2009
2	Instruction & Arithmetic pipelines-architectures	2	17/1/2009	19/1/2009
2	Design of pipelined instruction unit	1	20/1/2009	20/1/2009
2	Principles of designing pipelined instruction unit	2	21/1/2009	23/1/2009
2	Instruction prefetch & branch handling	1	26/1/2009	26/1/2009
2	Dynamic pipelines,Architecture of Cray 1	3	27/1/2009	28/1/2009
3	Array Processors- 2 Configurations of array processors	1	30/1/2009	30/1/2009
3	Interconnection Networks-Static Vs Dynamic Networks	1	6/2/2009	6/2/2009

3	Mesh connected interconnection networks,Cube interconnected networks	2	9/2/2009	10/2/2009
3	Parallel algorithms for array processors-SIMD matrix multiplication	2	10/2/2009	11/2/2009
3	Parallel sorting on array processors	2	13/2/2009	16/2/2009
3	Associative array processing	1	17/2/2009	17/2/2009
3	Memory organization	2	17/2/2009	18/2/2009
4	Multiprocessor architectures & programming-Loosely coupled multiprocessor systems with an example	1	20/2/2009	20/2/2009
4	Tightly coupled multiprocessor systems with an example	2	24/2/2009	24/2/2009
4	Interconnection networks	2	25/2/2009	27/2/2009
4	Language features to exploit parallelism	3	6/3/2009	10/3/2009
4	Tutorial-Process synchronization mechanisms	1	11/3/2009	11/3/2009
5	Data flow computers	1	13/3/2009	13/3/2009
5	Data driven computing & languages	1	16/3/2009	16/3/2009
5	Data flow computer architectures-Static data flow computers	3	17/3/2009	18/3/2009
5	Dynamic data flow computer architectures	2	20/3/2009	23/3/2009
5	Dataflow design alternatives	2	24/3/2009	24/3/2009

CLASS NOTES PREPARATION PLAN

Unit No.	Topic	Text Book	Page No.
1	Introduction to parallel processing	T1	1-48
2	Principles of pipelining and vector processing	T1	145-187
2	Architecture of Cray 1	T1	264-280
3	Array Processors	T1	325-385
4	Multiprocessor Architectures and programming	T1	459-492
4	Language features to exploit parallelsim	T1	533-541
4	Interprocess Communication Mechanism	T1	557-572
5	Dataflow Computers	T1	732-763

Name of the text Books:

T1: Computer Architecture & Parallel Processing –Kai Hwang & Faye A Briggs ,

McGraw Hills

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Staff room location: **Staff room 5**

Course name : **User Interface Design** ……

Objective of the course : **Principles & techniques for designing effective user interface,and for building good user friendly system interfaces**

LECTURE SCHEDULE

Unit No.	Topics to be covered	No. of hours	Schedule	
			From	To
1	Introduction:importance of good design,definition,brief history	1	29-12-08	29-12-08
1	Graphical user interface	1	30-12-08	30-12-08
1	Web user interface	1	31-12-08	31-12-08
1	Principles of user interface design	1	1-1-09	1-1-09
2	DESIGN PROCESS:Human interaction with computers	1	3-1-09	3-1-09
2	Importance of human characteristics	1	5-1-09	5-1-09
2	Human consideration	1	6-1-09	6-1-09
2	Human interaction speeds	1	8-1-09	8-1-09
2	Understanding business functions	3	12-1-09	14-1-09
3	Screen Designing:Screen meaning & purpose Organizing screen elements, Ordering of screen data & content	1	15-1-09	15-1-09
3	Screen navigation & flow ,Visually pleasing composition	1	17-1-09	17-1-09
3	amount of information,distinctiveness	1	19-1-09	19-1-09
3	Focus and emphasis,conveying depth of levels or three dimensional appearance	1	20-1-09	20-1-09
3	Presenting information meaningfully and simply , Information retrieval on the web	2	21-1-09	22-1-09
3	Statistical Graphics-(tutorial)	3	27-1-09	29-1-09
3	Techonological considerations in interface design	1	31-1-09	31-1-09
4	WINDOWS & COMPONENTS:Menus & Navigation Schemes(tutorial)	3	5-2-09	9-2-09

4	Selection Of windows(tutorial)	3	10-2-09	12-2-09
4	Selection of device based controls& Screen based controls	4	16-2-09	19-2-09
4	Text & Messages	3	21-2-09	25-2-09
4	Icons & images	3	26-2-09	7-3-09
4	Multimedia Colors-Uses ,Problems,Choosing Colors(tutorial)	4	10-3-09	16-3-09
5	Specification Methods	2	17-3-09	18-3-09
5	Interface Building Tools(tutorial)	3	19-3-09	23-3-09
5	Interaction devices_Key board & Function Keys(tutorial)	3	24-3-09	26-3-09
5	Pointing Devices	3	30-3-09	1-4-09
5	Speech Recognition(tutorial)	2	6-4-09	7-4-09
5	Digitization & Generation	2	8-4-09	13-4-09
5	Image & Video displays,printers(tutorial)	3	15-4-09	16-4-09

CLASS NOTES PREPARATION PLAN

Unit No.	Topic	Text Book	Page No.
	Topics to be covered	**T1**	
	Introduction:importance of good design,definition,brief history	T1	4-13
1	Graphical user interface	T1	15-23
1	Web user interface	T1	23-27
1	Principles of user interface design	T1	40-41
1	DESIGN PROCESS:Human interaction with computers	T1	61-64
2	Importance of human characteristics	T1	65-72
2	Human consideration	T1	72-81
2	Human interaction speeds	T1	85
2	Understanding business functions	T1	87-107
2	Screen Designing:Screen meaning & purpose Organizing screen elements, Ordering of screen data & content	T1	109-113
3	Screen navigation & flow ,Visually pleasing composition	T1	117-119
3	amount of information,distinctiveness	T1	138-145
3	Focus and emphasis,conveying depth of levels or three dimensional appearance	T1	146-149
3	Presenting information meaningfully and simply , Information retrieval on the web	T1	151-192
3	Statistical Graphics	T1	205
3	Techonological considerations in interface design	T1	
3	WINDOWS & COMPONENTS:Menus & Navigation Schemes	T1	249-327
4	Selection Of windows	T1	337-348
4	Selection of device based controls& Screen based controls	T1	385-400
4	Text & Messages	T1	403
4	Icons & images	T1	589-617
4	Multimedia Colors-Uses ,Problems,Choosing Colors	T1	621-628
4	Specification Methods	T2	171-191
5	Interface Building Tools	T2	180

5	Interaction devices_Key board & Function Keys	T2	321-327
5	Pointing Devices	T2	329-340
5	Speech Recognition	T2	341-355
5	Digitization & Generation	T2	210
5	Image & Video displays,printers	T2	214

Name of the text Books:

T1: THE ESSENTIAL GUIDE TO USER INTERFACE DESIGN 2nd Edn -WILBERT .O.GALITZ ,WILEY DREAM TECH

T2: DESIGNING THE USER INTERFACE 3rd Edn-BEN SSHNEIDERMAN, PEARSON EDUCATION ,ASIA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Instructor : **Sujith Kumar P.S**
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Contact No. : **9447712358** **Intercom No.** **Nil**
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Staff room location: **CAD Lab……**
……

Course name : **RT 806-7 (ELECTIVE-III)**
Biometrics……

Objective of the course : **Biometrics is the automated use of physiological or behavioral characteristics to determine or verify identify. Authentication is a fundamental componenet of human interaction with computers. Traditional means of authentication, primarily passwords and personal identification numbers(PINs)have until recently dominated computing, and are likely to remain essential for years to come. However stronger authentication technologies, capable of provideing higher degrees of certainty that a user is who he or she claims to be, are becoming commonplace.Biometrics are one such strong authentication technology**

LECTURE SCHEDULE

Unit No.	Topics to be covered	No. of hours	Schedule	
			From	To
	Module-1			
	Introduction-benefits of biometric security-verification and identification	1	01/01/09	01/01/09
	Basic working of biometric matching-accuracy	2	02/01/09	02/01/09
	False match rate-False non match rate-failure to enroll rate	1	06/01/09	06/01/09
	Derived metrics-layered biometric solutions	1	09/01/09	09/01/09
	Tutorial	1	15/01/09	15/01/09
	Module-2			
	Finger scan-features-components-operations	1	16/1/09	16/1/09
	Competing finger scan technologies-	1	21/1/09	21/1/09
	Strength and weakness	1	23/1/09	23/1/09
	Facial Scan-features- components-operations	1	27/1/09	27/1/09

	Competing facial scan technologies	1	28/1/09	28/1/09
	Strength and weakness	1	29/1/09	29/1/09
	Tutorial	1	30/1/09	30/1/09
	Module-3		05/02/09	05/02/09
	Iris scan -features-components-operations(steps)	1	07/02/09	07/02/09
	Competing Iris scan technologies-	1	10/01/09	10/01/09
	Strength and weakness	1	11/02/09	11/02/09
	Voice scan-features-components-operations(steps)	1	13/2/09	13/2/09
	Competing facial scan technologies	1	13/2/09	13/2/09
	Strength and weakness	1	17/2/09	17/2/09
	Tutorial-3	1	19/2/09	19/2/09
	Module-4		20/2/09	20/2/09
	Other physiological biometrics-handscan-retina scan	1	24/2/09	24/2/09
	AFIS(Automatic finger print identification system)	1	05/03/09	05/03/09
	Behavieral Biometrics	1	10/03/09	10/03/09
	Signature scan	1	11/03/09	11/03/09
	Key stroke scan	1	13/3/09	13/3/09
	Tutorial	1	17/3/09	17/3/09
	Module-5			
	Biometrics Applications-Biometric Solution Matrix	1	19/3/09	19/3/09
	Tutorial (Assignment)	1	20/3/09	20/3/09
	Bioprivacy	1	24/3/09	24/3/09
	Comparison of privacy factor in different biometrics	1	24/3/09	24/3/09
	Designing privacy sympathetic biometrics systems	1	25/3/09	25/3/09
	Biometrics standards-(BioAPI,BAPI)	1	26-03-09	26-03-09
	Biometrics Middleware	1	27-03-09	27-03-09
	Tutorial	1		
	Model exam			
	Univ exam			

CLASS NOTES PREPARATION PLAN

Unit No.	Topic	Text Book	Page No.
	Introduction-benefits of biometric security-verification and identification	T1	1-14
	Basic working of biometric matching-accuracy	T1	15-38
	False match rate-False non match rate-failure to enroll rate	T1	38-41
	Derived metrics-layered biometric solutions	T1	132
	Finger scan-features-components-operations	T1	45-53
	Competing finger scan technologies-	T1	54-61
	Strength and weakness	T1	63-65
	Facial Scan-features- components-operations	T1	65-67
	Competing facial scan technologies	T1	69-71
	Strength and weakness	T1	72-75
	Iris scan -features-components-operations(steps)	T1	77-80

	Competing Iris scan technologies-	T1	81-83
	Strength and weakness	T1	83-86
	Voice scan-features-components-operations(steps)	T1	87-93
	Competing facial scan technologies	T1	93-94
	Strength and weakness	T1	95-97
	Other physiological biometrics-hand scan-retina scan	T1	99-113
	AFIS(Automatic finger print identification system)	T1	114
	Behavioral Biometrics	T1	123
	Signature scan	T1	129
	Key stroke scan	T1	133
	Biometrics Applications-Biometric Solution Matrix	T1	141-155
	Bioprivacy	T1	180
	Comparison of privacy factor in different biometrics	T1	255
	Designing privacy sympathetic biometrics systems	T1	259
	Biometrics standards-(BioAPI,BAPI)	T1	277
	Biometrics Middleware	T1	57

Name of the text Books:

T1:Biometrics by Samir nanavathi

Course Instructor : **DHANYA M RAJAN**

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Course name : **RT801 SECURITY IN COMPUTING**

Objective of the course : **TO UNDERSTAND THE DIFFERENTS TYPES OF ATTACKS THAT HAPPENDS ON A COMPUTER SYSTEMS AND THE VARIOUS MEASURES OF SECURITY THAT CAN BE PROVIDED TO MAKE THE SYSTEM SECURE.**
TO UNDERSTAND THE DIFFERENT LEVES OF SECURITY AND THEIR STRENGTH.

LECTURE SCHEDULE

Unit No.	Topics to be covered	No. of hours	Schedule	
			From	To
1	Introduction: Security basics – Aspects of network security	2	29-12-08	30-12-09
1	Attacks – Different types – Hackers – Crackers	2	31-01-08	01-01-09
1	Common intrusion techniques	1	03-01-09	03-01-09
1	Trojan Horse,Virus, Worm	2	05-01-09	06-01-09
1	Security services and mechanisms.	1	07-01-09	07-01-09
2	OS Security – Protection Mechanisms – Authentication & Access control	2	08-01-09	12-01-09

2	Discretionary and Mandatory access control	1	13-01-09	13-01-09
2	Authentication mechanisms - Official levels of computer security (DoD)- Security breaches .	2	14-01-09	15-01-09
2	Concept of a hole - Types of a holes	1	17-01-09	17-01-09
2	Study of the security features for authentication, access control and remote execution in UNIX, WINDOWS 2000	3	19-01-09	21-01-09
3	Cryptography: Basic Encryption & Decryption	1	22-01-09	22-01-09
3	Transposition & substitution ciphers	1	24-01-09	24-01-09
3	Caesar substitution – Polyalphabetic substitutions – Crypt analysis –	2	27-01-09	28-01-09
3	Symmetric key algorithms – Fiestel Networks	2	29-01-09	31-01-09
3	Confusion – Diffusion – DES Algorithm	2	02-02-09	03-02-09
3	Strength of DES – Comparison & important features of modern symmetric key algorithms	1	04-02-09	04-02-09
3	Public key cryptosystems – The RSA Algorithm	2	06-02-09	09-02-09
3	Diffice Hellman key exchange – comparison of RSA & DES	1	10-02-09	10-02-09
3	Message Authentication & Hash functions –	1	11-02-09	11-02-09
3	Digital signature	1	14-02-09	14-02-09
4	Network & Application Security: Kerberos –.	2	16-02-09	16-02-09
4	X509 Authentication service – IP security Architecture	1	09-03-09	09-03-09
4	Secure socket layer – Electronic mail security	2	17-03-09	18-03-09
4	Pretty Good privacy – S/ MIME –	1	19-03-09	19-03-09
4	secure Electronic Transactions – Firewalls - Security	1	20-03-09	20-03-09
4	mechanisms in JAVA platform – Applet security – Security policy and Security Manager	1	23-03-09	23-03-09
5	Database Security: - Security issues	1	24-03-09	24-03-09
5	SQL security DAC based on granting & revoking privileges	2	25-03-09	26-03-09
5	MAC for multilevel security –	1	28-03-09	28-03-09
5	Statistical database security	1	30-03-09	30-03-09