#132, AECS Layout, IT Park Road, Kundalahalli, Bangalore – 560 037
T:+9180 28524466 / 77

CMR INSTITUTE
OF TECHNOLOGY

Session wise – Course Plan

Department of Computer Science and Engineering

SEMESTER : VIII A and B
BRANCH : CSE
SUBJECT : Information Network Security
SUBJECT CODE :10CS835
NO OF HRS/WK : 5

NAME OF THE FACULTY : Kiran Babu T S
DATE OF COMMENCEMEN:16/2/2017
DATE OF CLOSING : 21/05/2017
CLASS STRENGTH : A 67 B 66
TOTAL HRS : 64

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
1	**1/1**	16/02/2017	Perquisites for Network Security Computer Networks Layer	Chalk & Talk		
2	**2/1**	17/02/2017	Perquisites Security	,,		
3	**3/1**	17/02/2017	UNIT 1: **Unit 1: Introduction to Information Security** Introduction; Information Security Policy, Standards and Practices.	,,		
4	**4/1**	18/02/2017	Information Security Policy, Standards and Practices.	,,	Assignment- I	
5	**5/1**	18/02/2017	The Information Security Blue Print. Contingency Plan and a model for Contingency Plan	,,		
6	**6/1**	23/02/2017	Revision	,,		
7	**1/2**	02/03/2017	**UNIT 2:Security Technology-1 Introduction: Physical Design**	‘’		
8	**2/2**	09/03/2017	Firewall	,,		
9	**3/2**	10/03/2017	Firewall (contd)	,,		
10	**4/2**	10/03/2017	Examples of Firewall	,,		
11	**5/2**	11/03/2017	Protecting Remote Connection	,,	Assignment -II	
12	**6/2**	11/03/2017	Revision	,,		
13	**1/4**	16/03/2017	**UNIT 4: Cryptography;** Introduction; A short History of Cryptography	,,		
14	**2/4**	17/03/2017	Principles of Cryptography;	,,		
15	**3/4**	17/03/2017	Cryptography Tools; Attacks on Cryptosystems.	‘’		

16	**4/4**	18/03/2017	Cryptography Tools; Attacks on Cryptosystems. (contd)	,,		
17	**5/4**	18/03/2017	Cryptography Tools; Attacks on Cryptosystems.	,,		
18	**6/4**	23/03/2017	Cryptography Tools; Attacks on Cryptosystems. (contd)	,,	Assignment –III	
19	**7/4**	24/03/2017	Revision	,,		
20	**8/4**	24/03/2017	Revision	,,		
21	**1/5**	31/03/2017	**UNIT 5:Introduction to Network Security,** Authenciation Application	,,		
22	**2/5**	31/03/2017	Attacks, services, and Mechanisms; Security Attacks;	,,		
23	**3/5**	01/04/2017	Security Services;	‘’		
24	**4/5**	01/04/2017	A model for Internetwork Security;	,,		
25	**5/5**	06/04/2017	Internet Standards and RFCs, Directory Authentication Service.	,,	Assignment –IV	
26	**6/5**	07/04/2017	Kerberos,	,,		
27	**7/5**	07/04/2017	X.509,	,,		
28	**8/5**	08/04/2017	Revision.	,,		
29	**9/5**	08/04/2017	Revision.	,,		
30	**1/7**	13/04/2017	**Unit 7: IP Security :** IP Security Overview;	,,		
31	**2/7**	20/04/2017	IP Security Architecture ,.	,,		
32	**3/7**	21/04/2017	Authentication Header;	‘’		
33	**4/7**	21/04/2017	Encapsulating Security Payload;	,,	Assignment -V	
34	**5/7**	22/04/2017	Combining Security Associations; Key Management	,,		
35	**6/7**	22/04/2017	Revision	,,		
36	**1/8**	27/04/2017	**Unit 8: Web Security:** Web security requirements;	,,		
37	**2/8**	28/04/2017	Secure Socket layer (SSL) and Transport layer Security (TLS);	,,		
38	**3/8**	28/04/2017	Secure Socket layer (SSL) and Transport layer Security (TLS);	,,		
39	**4/8**	28/04/2017	Secure Electronic Transaction (SET)	‘’	Assignment -VI	
40	**5/8**	28/04/2017	Secure Electronic Transaction (SET)	,,		

41	**6/8**	28/04/2017	Revision	,,		
42	**1/6**	04/05/2017	**Unit 6: Electronic Mail Security;** Introduction	,,		
43	**2/6**	04/05/2017	Pretty Good Privacy (PGP);	,,		
44	**3/6**	04/05/2017	Pretty Good Privacy (PGP);	,,	Assignment -VII	
45	**4/6**	04/05/2017	S/MIME	,,		
46	**5/6**	05/05/2017	S/MIME	,,		
47	**6/6**	05/05/2017	Revision	,,		
48	**2/3**	05/05/2017	**Unit 3:** Security Technology – 2 Introduction;	,,		
49	**3/3**	05/05/2017	Intrusion Detection Systems (IDS);	,,		
50	**4/3**	11/05/2017	Honey Pots,	,,		
51	**5/3**	11/05/2017	Honey Nets, and Padded cell systems;	,,	Assignment -VIII	
52	**6/3**	11/05/2017	Scanning and Analysis Tools	,,		
53		13/05/2017	Revision	,,		
54		13/05/2017	Revision of Reflection	,,		
55		13/05/2017	VTU Question Answers discussion	,,		
56		18/05/2017	VTU Question Answers discussion	Chalk & Talk		
57		18/05/2017	VTU Question Answers discussion	,,		
58		18/05/2017	VTU Question Answers discussion	,,		
59		19/05/2017	Revision of Unit 1	,,		
60		19/05/2017	Revision of Unit 2	,,		
61		19/05/2017	Revision of Unit 4	,,		
62		20/05/2017	Revision of Unit 5	,,		
63		20/05/2017	Revision of Unit 7 & 8	,,		
64		20/05/2017	Discussion on Solved Question Papers			

**Syllabus for Internal Assessment Tests (IAT)*

Sessional #	Syllabus
T1	Class # 01 - 26
T2	Class # 27 – 50

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Michael E. Whitman and Herbert J. Mattord: Principles of Information Security,	2nd Edition, Cengage Learning, 2005..	978-1111138219
Text Book	TB2	William Stallings: Network Security Essentials Applications and Standards	Person, 2000.	978-0133370430
Text Book	TB3	Deven N. Shah: Information Security Principles and Practice	Wiley India, 2009.	978-8126519873
References	RB1	Behrouz A. Forouzan: Cryptography and Network Security	Tata McGraw-Hill, 2007.	978-0073327532

Signature of faculty Signature of HOD Signature of Principal

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CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

Department of Computer Science and Engineering

SEM ESTER : VIII –A and B
BRANCH : CSE
SUBJECT : SOFTWARE A RCHITECTURE
SUBJECT CODE :10IS81
NO OF HRS/WK : 5

NAM E OF THE FA CULTY: SNEHA L KA RWA
DATE OF COMM ENCEM ENT : 19/01/ 2017
DATE OF CLOSING : 21/ 05/ 2017
CLASS STRENGTH : A 67 B 69
TOTA L HRS : 64

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
1	**1/1**	16/2/2017	**UNIT 1: Introduction:** Revision of concepts of software engineering. Introduction about	Chalk & Talk		

			Software architecture, Flow of the subject.			
2	**2/1**	17/02/2017	Where do architectures come from? Software processes and the architecture business cycle.	,,		
3	**3/1**	17/02/2017	What makes a “good” architecture? What software architecture is and what it is not; Other points of view.	,,	Assignment- I	
4	**4/1**	18/02/2017	Architectural patterns, reference models and reference architectures; Importance of software architecture.	,,		
5	**5/1**	18/02/2017	Architectural structures and views.	,,		
6	**1/2**	23/02/2017	**UNIT 2: Architectural Styles and Case Studies:** Architectural styles: Definition and classification. Structure of styles. Pipes and filters.	,,		
7	**2/2**	2/03/2017	Data abstraction and object-oriented organization; Event-based, implicit invocation; Layered systems.	,,		
8	**3/2**	09/03/2017	Repositories; Interpreters; Process control.	,,		
9	**4/2**	10/03/2017	Other familiar architectures; Heterogeneous architectures.	,,		
10	**5/2**	10/03/2017	Case Studies: Keyword in Context.			
11	**6/2**	11/03/2017	CaseStudies: Instrumentation	Chalk &	Assignm	

			software	Talk, PPT	ent -II	
12	**7/2**	11/03/2017	Case Studies: Mobile robotics.	,,		
13	**8/2**	16/03/2017	Case Studies: Cruise control, Three vignettes in mixed style.	,,		
14	**9/2**	17/03/2017	Revision of Unit 1 and 2	,,		
15	**1/3**	17/03/2017	**UNIT 3: Quality:** Functionality and architecture; Architecture and quality attributes.	,,		
16	**2/3**	18/03/2017	System quality attributes; Quality attribute scenarios in practice; Other system quality attributes	,,		
17	**3/3**	18/03/2017	Availability Scenario, Modifiability Scenario	,,		
18	**4/3**	23/03/2017	Usability Scenario, Performance Scenario	,,		
19	**5/3**	24/03/2017	Security Scenario, Testability Scenario	,,	Assignm ent –III	
20	**6/3**	24/03/2017	Business qualities; Architecture qualities. Achieving Quality: Introducing tactics.	,,		
21	**7/3**	31/03/2017	Availability tactics; Modifiability tactics; Usability tactics	,,		
22	**8/3**	31/03/2017	Performance tactics; Security tactics; Testability tactics.	,,		
23	**9/3**	01/04/2017	Relationship of tactics to architectural patterns; Architectural patterns and styles.	,,		
24	**10/3**	01/04/2017	Revision of Unit 3.	,,		
25	**1/8**	06/04/2017	**UNIT 8: Designing and documenting Software Architecture:** Architecture in the life cycle; Designing the architecture.	,,	Assignm ent –IV	
26	**2/8**	07/04/2017	Forming the team structure; Creating a skeletal system.	,,		
27	**3/8**	07/04/2017	Uses of architectural documentation; Views; Choosing the relevant views;	,,		
28	**4/8**	08/04/2017	Documenting a view; Documentation across views.	,,		
29	**5/8**	08/04/2017	Revision of unit 8	,,		
30	**6/8**	13/04/2017	Solving Model Question Paper	,,		
31	**7/8**	20/04/2017	Case Study	,,		

32	**1/4**	21/04/2017	**Unit 4: Architectural Patterns – 1 :** Introduction;	„"		
33	**2/4**	21/04/2017	From mud to structure.	„		
34	**3/4**	22/04/2017	Pipes and Filters	Chalk & Talk, PPT	Assignment -V	
35	**4/4**	22/04/2017	Blackboard	„		
36	**5/4**	27/04/2017	Revision of Unit 4	„		
37	**1/7**	28/04/2017	**UNIT 7: Some Design Patterns :** Structural decomposition:	„		
38	**2/7**	28/04/2017	Whole – Part, Organization of work	„		
39	**3/7**	04/05/2017	Master – Slave	„"	Assignment -VI	
40	**4/7**	05/05/2017	Access Control	„		
41	**5/7**	05/05/2017	Proxy.	„		
42	**6/7**	11/05/2017	Revision of Unit 7	„		
43	**1/5**	12/05/2017	**UNIT 5: Architectural Patte rns – 2 :** Distributed Systems:	„		
44	**2/5**	12/05/2017	Broker	„	Assignment -VII	
45	**3/5**	13/05/2017	Model View Controller	„		
46	**4/5**	13/05/2017	Presentation-Abstraction-Control.	„		
47	**5/5**	18/05/2017	VTU Question Answers discussion	„"		
48	**6/5**	19/05/2017	Revision of unit 5	„		
49	**7/5**	19/05/2017	Discussion on VTU Question Paper	„		
50	**1/6**	20/05/2017	**UNIT 6: Architectural Patte rns – 3 :** Adaptable Systems:	„		
51	**2/6**	20/05/2017	Microkernel	„	Assignment -VIII	
52	**3/6**	01/06/2017	Reflection	„		
53	**4/6**	02/06/2017	Revision of Model View Controller	„		
54	**5/6**	02/06/2017	Revision of Reflection	„		

Syllabus for Internal Assessment Tests (IAT)*

Sessional #	Syllabus
T1	Class # 01 - 20
T2	Class # 21 – 43
T3	

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication information	
			Edition // Publisher	ISBN #
Text Book	TB1	Len Bass, Paul Clements, Rick Kazman : Software A rchitecture in Practice (Chapters 1, 2, 4, 5, 7, 9)	2nd Ed ition, Pearson Education, 2003.	978-81-7758-996-2
Text Book	TB2	Frank Buschmann, Regine Meunier, Hans Rohnert, Peter So mmerlad, M ichael Stal: Pattern-Oriented Software Architecture, A System of Patterns Vo lu me 1, John Wiley and Sons, 2007. (Chapters 2, 3.1 to 3.4)	Vo lu me 1, John Wiley and Sons, 2007.	978-81-265-1611-7
Text Book	TB3	Mary Shaw and David Garlan: Software Architecture- Perspectives on an Emerging Discip line, (Chapters 1.1, 2, 3)	PHI, 2007.	978-81-203-1470-2
Reference	RB1	E. Gamma, R. Helm, R. Johnson, J. Vlissides: Design Patterns - Elements of Reusable Object-Oriented Software	Pearson Education, 1995.	978-81-317-0007-5

Signature of faculty Signature of HOD Signature of Principal

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CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

Department of Computer Science and Engineering

SEMESTER : VIII -A & B
BRANCH : CSE
SUBJECT : System Modeling & Simulation
SUBJECT CODE : 10CS82
NO OF HRS/WK : 5

NAME OF THE FACULTY : Swathi.Y
DATE OF COMMENCEMENT : 16-2-2017
DATE OF CLOSING : 2-6-2017
CLASS STRENGTH : 136
TOTAL HRS : 65

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
1	**1/7**	16-2-2017	**PRE-REQUISITES** **UNIT – 1 INTRODUCTION :** When simulation is the appropriate tool and when it is not appropriate	Chalk & Talk		
2	**2/7**	17-2-2017	Advantages and disadvantages of Simulation, Areas of application	,,		
3	**3/7**	17-2-2017	Systems and system Environment , Components of a system-Discrete and continuous systems,	,,		
4	**4/7**	18-2-2017	Model of a system, Types of Models, Discrete-Event System Simulation	,,	Assignment- I	
5	**5/7**	18-2-2017	Steps in a Simulation Study, The basics of SpreadSheet-Simulation	Power Point		
6	**6/7**	23-2-2017	Simulation Example: Simulation of queuing systems in a spreadsheet	,,		
7	**7/7**	2-3-2017	Revision	Chalk & Talk		
8	**1/8**	2-3-2017	**UNIT-2 - General Principles, Simulation Software :** Concepts in Discrete-Event Simulation	,,		
9	**2/8**	9-3-2017	The Event-Scheduling / Time-Advance Algorithm, World Views	,,		
10	**3/8**	9-3-2017	Manual simulation Using Event Scheduling	,,	Assignment –II	

11	**4/8**	10-3-2017	List processing ,Basic properties, Operations-Using Arrays	,,		
12	**5/8**	11-3-2017	Dynamic Allocation ,Linked Lists	,,		
13	**6/8**	11-3-2017	Simulation in Java	,,		
14	**7/8**	16-3-2017	Simulation in GPSS	,,		
15	**8/8**	16-3-2017	Revision	‘’		
16	**1/7**	17-3-2017	**UNIT 3- Statistical Models in Simulation :** Review of terminology and concepts	‘’		
17	**2/7**	18-3-2017	Useful statistical models	‘’		
18	**3/7**	18-3-2017	Discrete Distributions	,,		
19	**4/7**	23-3-2017	Continuous Distributions	,,	Assignment –III	
20	**5/7**	23-3-2017	Poisson Process, Empirical distributions	,,		
21	**6/7**	24-3-2017	Poisson Process, Empirical distributions	,,		
22	**7/7**	31-3-2017	Revision	,,		
23	**1/8**	31-3-2017	**UNIT 5- Random-Number Generation, Random-Variate Generation** Properties of random numbers	,,		
24	**2/8**	1-4-2017	Generation of pseudo-random numbers ,Techniques for generating random numbers	,,		
25	**3/8**	1-4-2017	Tests for Random Numbers	‘’		
26	**4/8**	6-4-2017	Tests for Random Numbers	,,	Assignment –IV	
27	**5/8**	7-4-2017	Random- Variate Generation ,Inverse transform technique	,,		
28	**6/8**	7-4-2017	Acceptance-Rejection technique	,,		
29	**7/8**	8-4-2017	Special properties	,,		
30	**8/8**	8-4-2017	Revision	,,		
31	**1/7**	13-4-2017	**UNIT 6 -Input Modeling :** Data Collection	,,		
32	**2/7**	20-4-2017	Identifying the distribution with data, Parameter Estimation	,,		
33	**3/7**	20-4-2017	Goodness of Fit Tests	,,		

34	**4/7**	21-4-2017	Fitting a non-stationary Poisson process	‘’		
35	**5/7**	21-4-2017	Selecting input models without data	,,	Assignment -V	
36	**6/7**	22-4-2017	Multi-variate and Time-Series input models	,,		
37	**7/7**	27-4-2017	Revision	,,		
38	**1/8**	27-4-2017	**UNIT 7 –Estimation Of Absolute performance[Output Analysis For A Single Model :** Types of simulations with Respect to Output analysis	,,		
39	**2/8**	28-4-2017	Stochastic Nature of Output Data	,,		
40	**3/8**	28-4-2017	Measures of Performance and their Estimation	,,		
41	**4/8**	4-5-2017	Output Analysis for Terminating Simulations	‘’	Assignment –VI	
42	**5/8**	5-5-2017	Output Analysis for Terminating Simulations	,,		
43	**6/8**	5-5-2017	Output analysis for steady-State Simulations. Problems	,,		
44	**7/8**	11-5-2017	Output analysis for steady-State Simulations. Problems	,,		
45	**8/8**	11-5-2017	Revision	,,		
46	**1/7**	12-5-2017	**UNIT - 8 -Verification, Calibration, and Validation; Optimization of simulation Models :** Model Building	,,		
47	**2/7**	13-5-2017	Verification, Validation, Verification of simulation models	,,		
48	**3/7**	13-5-2017	Calibration, Validation of models	,,	Assignment –VII	
49	**4/7**	18-5-2017	Calibration, Validation of models	‘’		
50	**5/7**	18-5-2017	Optimization, Optimization via Simulation	,,		
51	**6/7**	19-5-2017	Optimization, Optimization via Simulation	,,		
52	**7/7**	20-5-2017	Revision	,,		
53	**1/7**	20-5-2017	**UNIT 4 - Queuing Models :** Characteristics of queuing Systems	,,		
54	**2/7**	25-5-2017	Queuing notation	,,		

55	**3/7**	26-5-2017	Long-run measures of performance of queuing Systems	,,	Assignment -VIII	
56	**4/7**	27-5-2017	Long-run measures of performance of queuing Systems	,,		
57	**5/7**	1-6-2017	Revision	‘’		
58	**6/7**	1-6-2017	Revision	,,		
59	**7/7**	2-6-2017	Revision	,,		
60	**8/7**	2-6-2017	Revision	,,		

Syllabus for Internal Assessment Tests (IAT)*

Sessional #	Syllabus
T1	Class # 01 – 19
T2	Class # 20 – 37
T3	Class # 38 - 60

*: See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Jerry Banks, John S. Carson II, Barry L. Nelson, David M. Nicol: Discrete-Event System Simulation. (Listed topics only from Chapters-1 to 12)	5th Edition, Pearson Education ©2013	978-8131796993
Reference	RB1	Averill M. Law: Simulation Modeling and Analysis	4th Edition, Tata McGraw-Hill, 2007.	9780070667334
Reference	RB2	Lawrence M. Leemis, Stephen K. Park: Discrete – Event Simulation:	A First Course, Pearson Education, 2006.	978-0131429178

Signature of faculty Signature of HOD Signature of Principal

SEMESTER : VIII A&B
BRANCH : CSE
SUBJECT : SOFTWARE TESTING
SUBJECT CODE : 10CS842
NO OF HRS/WK : 5

NAME OF THE FACULTY : Mrs V. Aishwarya
DATE OF COMMENCEMENT : 19.01.17
DATE OF CLOSING : 07.05.17
CLASS STRENGTH : 130
TOTAL HRS : 62

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter
1	**1/1**	19.1.17	Introduction of Software Testing SDLC, Importance of ST	Board, chalk, duster	
2	**2/1**	19.1.17	WBT,BBT,FT,IT,ST ,Overview of all units	,,	
3	**3/1**	20.1.17	**UNIT 01: Perspective on Testing, Examples :** Basic concept of Software Testing, Testing the life cycle.	,,	
4	**4/1**	20.1.17	Test cases with Template and examples	,,	
5	**5/1**	21.1.17	Insights from a Venn diagram, Identifying test cases	,,	
6	**6/1**	27.1.17	Error and fault taxonomies, Levels of testing	Board, chalk, duster	
7	**7/1**	27.1.17	The triangle problem	,,	
8	**8/1**	28.1.17	The NextDate function	,,	
9	**9/1**	28.1.17	The commission problem, The currency converter, The currency converter	,,	Assignment- I
10	**1/2**	2.2.17	**UNIT 02:Boundary Value Testing, Equivalence Class Testing, Decision Table- Based Testing:** Boundary value analysis, Robustness testing with Triangle problem example	,,	

11	**2/2**	2.2.17	Worst-case testing, Special value testing with NextDate function	,,	
12	**3/2**	3.2.17	Random testing, Equivalence classes,	,,	
13	**4/2**	3.2.17	Equivalence test cases for the triangle problem	,,	
14	**5/2**	4.2.17	Equivalence test cases for the NextDate problem and Guidelines and observations	,,	
15	**6/2**	9.2.17	Decision tables, Test cases for the triangle problem	,,	
16	**7/2**	9.2.17	Decision tables of NextDate	,,	Assignment -II
17	**8/2**	10.2.17	Decision table of Commission problem, Guidelines and observations.	,,	
18	**1/3**	10.2.17	**UNIT 3: Path Testing, Data Flow Testing** Path Testing, DD paths	,,	
19	**2/3**	11.2.17	Test coverage metrics	,,	
20	**3/3**	16.2.17	Test coverage analysis	,,	
21	**4/3**	16.2.17	guidelines and observations	,,	
22	**5/3**	17.2.17	Dataflow Testing, Use testing	,,	
23	**6/3**	23.2.17	Slice-based testing	,,	
24	**7/3**	23.2.17	Guidelines and observations	,,	
25	**1/4**	2.3.17	**UNIT 4 : Levels of Testing, Integration Testing** Levels of Testing	,,	
26	**2/4**	2.3.17	Integration Testing	,,	
27	**3/4**	3.3.17	The SATM system	,,	Assignment –III
28	**4/4**	3.3.17	The SATM system	,,	
29	**5/4**	4.3.17	Separating integration and system testing	,,	
30	**6/4**	9.3.17	A closer look at the SATM system	Board, chalk, duster	
31	**7/4**	9.3.17	Decomposition-based Integration	,,	
32	**8/4**	10.3.17	Call graph-based, Path-based integrations	,,	
33	**1/5**	10.3.17	**UNIT 5 : System Testing, Interaction Testing:** Threads	,,	
34	**2/5**	11.3.17	Basic concepts for requirements specification	,,	
35	**3/5**	16.3.17	Finding threads, Structural strategies	,,	
36	**4/5**	16.3.17	functional strategies for thread testing	,,	

37	**5/5**	17.3.17	SATM test threads	,,	
38	**6/5**	17.3.17	System testing guidelines	,,	
39	**7/5**	18.3.17	ASF Testing and Context of interaction	,,	
40	**8/5**	23.3.17	A taxonomy of interactions	,,	
41	**9/5**	23.3.17	Interaction, composition, and determinism, Client/Server Testing	,,	
42	**1/6**	24.3.17	**UNIT 6: Process Framework** Validation and verification	,,	
43	**2/6**	24.3.17	Degrees of freedom, Varieties of software	,,	
44	**3/6**	25.3.17	Basic principles Sensitivity, redundancy, Restriction, partition, visibility, Feedback	,,	
45	**3/6**	30.3.17	The quality process, Planning and monitoring	,,	
46	**4/6**	30.3.17	Quality goals, Dependability propertie r	,,	
47	**5/6**	31.3.17	Analysis, Testing	,,	
48	**6/6**	31.3.17	Improving the process, Organizational factors	,,	
49	**1/7**	1.4.17	**UNIT 7: Fault-Based Testing, Test Execution:** Overview	,,	
50	**2/7**	6.4.17	Assumptions in fault based testing	Board, chalk, duster	
51	**3/7**	6.4.17	Fault-based adequacy criteria	,,	
52	**4/7**	7.4.17	Variations on mutation analysis	,,	
53	**5/7**	7.4.17	Test Execution: Overview, from test case specifications to test cases	,,	
54	**6/7**	8.4.17	Scaffolding, Generic versus specific Scaffolding	,,	
55	**7/7**	20.4.17	Test oracles	,,	
56	**8/7**	20.4.17	Self-checks as oracles	,,	
57	**1/8**	21.4.17	**UNIT 8: Planning and Monitoring the Process, Documenting Analysis and Test:** Quality and process	,,	
58	**2/8**	21.4.17	Test and analysis strategies and plans, , Risk planning, Monitoring the process	,,	
59	**3/8**	22.4.17	Improving the process, The quality team, Documenting Analysis and test ,Organizing documents	,,	

60	**4/8**	27.4.17	Test strategy document, Analysis and test plan, Test design specifications documents, Test and analysis reports	,,	
61		27.4.17	Revision		
62		28.4.17	Revision		

Syllabus for Sessionals:

Sessional #	Syllabus
T1	**Class # 01 -17**
T2	**Class # 18 -39**
T3	**Class # 40 - 60**

Literature:

Book Type	Code	Author &Title	*Publication info*	
			Edition &Publisher	**ISBN #**
Text Book	TB1	Robert W Sebesta : "Programming The World Wide Web"	4th edition, Pearson Education,2008	978-81-317-6458-9
References	RB1	M. Deitel, P.J. Deitel, A. B. Goldberg : "Internet &World Wide Web How to program"	4th Edition, Pearson education/PHI 2004	ISBN-10: 0-13-215100-6
References	RB2	Chris Bates : " Web Programming Building Internet Applications "	2nd Edition, Wiley India, 2007	81-265-0272-X
References	RB3	Xue Bai et al : "The Web Warrior Guide to Web Programming"	Cengage Learning, 2003	0619064587

Signature of faculty Signature of HOD Signature of Principal