

## Session wise – Course Plan

**Department of Information Science and Engineering**

 SEMESTER : VIII  
 BRANCH : ISE  
 SUBJECT : Software Architecture  
 SUBJECT CODE: 10IS81  
 NO OF HRS/WK: 5

 NAME OF THE FACULTY : Prasad M S  
 DATE OF COMMENCEMENT: 19/01/2017  
 DATE OF CLOSING : 20/05/2017  
 CLASS STRENGTH : 98  
 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
1	1/1	16-2-2017	<b>UNIT 1: Introduction:</b> Revision of concepts of software engineering. Introduction about Software architecture, Flow of the subject.	Power Point Presentation	
2	2/1	16-2-2017	Where do architectures come from? Software processes and the architecture business cycle.	„	
3	3/1	23-2-2017	What makes a “good” architecture? What software architecture is and what it is not; Other points of view.	„	
4	4/1	23-2-2017	Architectural patterns, reference models and reference architectures; Importance of software architecture.	„	
5	5/1	2-3-2017	Architectural structures and views, Classification of views.	„	
6	6/1	3-3-2017	Revision of Unit 1	„	
7	1/2	3-3-2017	<b>UNIT 2: Architectural Styles and Case Studies :</b> Architectural styles: Definition and classification.	„	
8	2/2	4-3-2017	Data abstraction and object-oriented organization; Event-based, implicit invocation; Layered systems.	„	Assignment- I
9	3/2	4-3-2017	Repositories; Interpreters; Process control.	„	

10	4/2	9-3-2017	Other familiar architectures; Heterogeneous architectures.	„	
11	5/2	10-3-2017	Case Studies: Keyword in Context.	„	
12	6/2	10-3-2017	Case Studies: Instrumentation software, Mobile robotics.	„	
13	7/2	11-3-2017	Case Studies: Cruise control, Three vignettes in mixed style.	„	
14	8/2	11-3-2017	Revision of Unit 2	„	
15	1/3	16-3-2017	<b>UNIT 3: Quality</b> : Functionality and architecture; Architecture and quality attributes.	‘	
16	2/3	17-3-2017	System quality attributes; Quality attribute scenarios in practice; Other system quality attributes	„	Assignment - II
17	3/3	17-3-2017	Business qualities; Architecture qualities. Achieving Quality: Introducing tactics.	„	
18	4/3	23-3-2017	Availability tactics; Modifiability tactics; Usability tactics	„	
19	5/3	23-3-2017	Performance tactics; Security tactics; Testability tactics.	„	
20	6/3	24-3-2017	Relationship of tactics to architectural patterns; Architectural patterns and styles.	„	
21	7/3	25-3-2017	Revision of Unit 3.	„	
22	1/4	25-3-2017	<b>Unit 4: Architectural Patterns – 1</b> : Introduction;	„	
23	2/4	30-3-2017	From mud to structure.	‘	
24	3/4	30-3-2017	Pipes and Filters	„	Assignment – III
25	4/4	31-3-2017	Blackboard	„	
26	5/4	1-4-2017	VTU Question Answers discussion	„	
27	6/4	1-4-2017	Revision of Unit 4	„	
28	1/5	6-4-2017	<b>UNIT 5: Architectural Patterns – 2</b> : Distributed Systems:	„	
29	2/5	6-4-2017	Broker	„	
30	3/5	7-4-2017	Interactive Systems	„	
31	4/5	8-4-2017	Model View Controller	„	

32	5/5	8-4-2017	Presentation-Abstraction-Control.	‘	
33	6/5	13-4-2017	VTU Question Answers discussion	”	
34	7/5	13-4-2017	Revision of Unit 5	”	
35	1/8	20-4-2017	<b>UNIT 8: Designing and documenting Software Architecture:</b> Architecture in the life cycle; Designing the architecture.	”	
36	2/8	21-4-2017	Forming the team structure; Creating a skeletal system.	”	
37	3/8	21-4-2017	Uses of architectural documentation; Views;	”	
38	4/8	27-4-2017	Documenting a view;	”	Assignment - IV
39	5/8	27-4-2017	Documentation across views.	‘	
40	6/8	28-4-2017	Choosing the relevant views;	”	
41	1/7	4-5-2017	<b>UNIT 7: Some Design Patterns:</b> Structural decomposition:	”	
42	2/7	4-5-2017	Whole – Part, Organization of work	”	
43	3/7	5-5-2017	Master – Slave	”	
44	4/7	5-5-2017	Access Control	”	
45	5/7	6-5-2017	Proxy.	”	Assignment - V
46	6/7	11-5-2017	VTU Question Answers discussion	”	
47	7/7	11-5-2017	Revision of Unit 7	‘	
48	1/6	11-5-2017	<b>UNIT 6: Architectural Patterns – 3: Adaptable Systems:</b>	”	
49	2/6	11-5-2017	Microkernel	”	
50	3/6	12-5-2017	Reflection	”	
51	4/6	12-5-2017	Model View Controller	”	
52	5/6	12-5-2017	VTU Question Answers discussion	”	
53	6/6	13-5-2017	Revision of Unit 6	‘	

54		13-5-2017	Revision of Unit 1	„	
55		13-5-2017	Revision of Unit 2	„	
56		18-5-2017	Revision of Unit 3	„	
57		18-5-2017	Revision of Unit 4	„	
58		19-5-2017	Revision of Unit 5	„	
59		19-5-2017	Revision of Unit 6	„	
60		20-5-2017	Revision of Unit 7	„	
61		20-5-2017	Revision of Unit 8	„	

### Syllabus for Internal Assessment Tests (IAT) \*

Sessional #	Syllabus
T1	Class # 01 – 21
T2	Class # 22 – 40
T3	Class # 41 –53

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

### Literature:

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book	TB1	Len Bass, Paul Clements, Rick Kazman: Software Architecture in Practice (Chapters 1, 2, 4, 5, 7, 9)	2nd Edition, Pearson Education, 2003.	978-81-7758-996-2
Text Book	TB2	Frank Buschmann, Regine Meunier, Hans Rohnert, Peter Sommerlad, Michael Stal: Pattern-Oriented Software Architecture, A System of Patterns Volume 1, John Wiley and Sons, 2007. (Chapters 2, 3.1 to 3.4)	Volume 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 Discipline, (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

**Department of Information Science and Engineering**

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

NAME OF THE FACULTY : D.Sudha  
DATE OF COMMENCEMENT : 13-2-2017  
DATE OF CLOSING : 2-6-2017  
CLASS STRENGTH : 99  
TOTAL HRS : 55

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	<b>PRE-REQUISITES</b> <b>UNIT – 1 INTRODUCTION</b> : When simulation is the appropriate tool and when it is not appropriate	Chalk & Talk		
2	2/7	16-2-2017	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	17-2-2017	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	23-2-2017	Revision	Chalk & Talk		
8	1/8	2-3-2017	<b>UNIT-2 - General Principles, Simulation</b>	„		

			<b>Software : Concepts in Discrete-Event Simulation</b>			
9	<b>2/8</b>	2-3-2017	The Event-Scheduling / Time-Advance Algorithm, World Views	”		
10	<b>3/8</b>	9-3-2017	Manual simulation Using Event Scheduling	”	Assignment –II	
11	<b>4/8</b>	10-3-2017	List processing ,Basic properties, Operations-Using Arrays	”		
12	<b>5/8</b>	10-3-2017	Dynamic Allocation ,Linked Lists	”		
13	<b>6/8</b>	11-3-2017	Simulation in Java	”		
14	<b>7/8</b>	11-3-2017	Simulation in GPSS	”		
15	<b>8/8</b>	16-3-2017	Revision	”		
16	<b>1/7</b>	17-3-2017	<b>UNIT 3- Statistical Models in Simulation :</b> Review of terminology and concepts	”		
17	<b>2/7</b>	17-3-2017	Useful statistical models	”		
18	<b>3/7</b>	18-3-2017	Discrete Distributions	”		
19	<b>4/7</b>	18-3-2017	Continuous Distributions	”	Assignment –III	
20	<b>5/7</b>	23-3-2017	Poisson Process, Empirical distributions	”		
21	<b>6/7</b>	24-3-2017	Poisson Process, Empirical distributions	”		
22	<b>7/7</b>	24-3-2017	Revision	”		
23	<b>1/8</b>	31-3-2017	<b>UNIT 5- Random-Number Generation, Random-Variate Generation</b> Properties of random numbers	”		
24	<b>2/8</b>	31-3-2017	Generation of pseudo-random numbers ,Techniques for generating random numbers	”		
25	<b>3/8</b>	1-4-2017	Tests for Random Numbers	”		
26	<b>4/8</b>	6-4-2017	Tests for Random Numbers	”	Assignment –IV	
27	<b>5/8</b>	6-4-2017	Random-Variate Generation ,Inverse transform technique	”		

28	<b>6/8</b>	7-4-2017	Acceptance-Rejection technique	”		
29	<b>7/8</b>	7-4-2017	Special properties	”		
30	<b>8/8</b>	8-4-2017	Revision	”		
31	<b>1/6</b>	13-4-2017	<b>UNIT 6 -Input Modeling :</b> Data Collection	”		
32	<b>2/6</b>	13-4-2017	Identifying the distribution with data, Parameter Estimation	”		
33	<b>3/6</b>	20-4-2017	Goodness of Fit Tests	”		
34	<b>4/6</b>	20-4-2017	Fitting a non-stationary Poisson process	”		
35	<b>5/6</b>	21-4-2017	Selecting input models without data	”	Assignment - V	
36	<b>6/6</b>	22-4-2017	Multi-variate and Time-Series input models	”		
37	<b>1/7</b>	22-4-2017	<b>UNIT 7 –Estimation Of Absolute performance[Output Analysis For A Single Model :</b> Types of simulations with Respect to Output analysis	”		
38	<b>2/7</b>	27-4-2017	Stochastic Nature of Output Data	”		
39	<b>3/7</b>	27-4-2017	Measures of Performance and their Estimation	”		
40	<b>4/7</b>	28-4-2017	Output Analysis for Terminating Simulations	”		
41	<b>5/7</b>	4-5-2017	Output Analysis for Terminating Simulations	”	Assignment –VI	
42	<b>6/7</b>	4-5-2017	Output analysis for steady-State Simulations. Problems	”		
43	<b>7/7</b>	5-5-2017	Output analysis for steady-State Simulations. Problems	”		
44	<b>1/5</b>	5-5-2017	<b>UNIT - 8 -Verification, Calibration, and Validation; Optimization of simulation Models :</b> Model Building	”		
45	<b>2/5</b>	11-5-2017	Verification, Validation, Verification of simulation models	”	Assignment –VII	

46	3/5	12-5-2017	Calibration, Validation of models	”		
47	4/5	12-5-2017	Optimization, Optimization via Simulation	”		
48	5/5	13-5-2017	Optimization, Optimization via Simulation	”		
49	1/7	13-5-2017	<b>UNIT 4 - Queuing Models :</b> Characteristics of queuing Systems	“		
50	2/7	13-5-2017	Queuing notation	”		
51	3/7	18-5-2017	Long-run measures of performance of queuing Systems	”	Assignment - VIII	
52	4/7	19-5-2017	Steady-state behavior of M/G/1 queue	”		
53	5/7	19-5-2017	Networks of queues	”		
54	6/7	20-5-2017	Rough-cut modeling: An illustration	”		
55	7/7	20-5-2017	Rough-cut modeling: An illustration	”		

### Syllabus for Internal Assessment Tests (IAT) \*

Sessional #	Syllabus
T1	Class # 01 – 22
T2	Class # 23 – 43
T3	Class # 44 - 55

\*: 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

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## CMR INSTITUTE OF TECHNOLOGY

### Session wise – Course Plan

#### Department of Computer Science and Engineering

SEMESTER	: VIII	NAME OF THE FACULTY	: D.Gopika
BRANCH	: ISE	DATE OF COMMENCEMENT	: 13/02/2017
SUBJECT	: Information and network Security	DATE OF CLOSING	: 02/06/2017
SUBJECT CODE	: : 10CS835	CLASS STRENGTH	: 98
NO OF HRS/WK	: 05	TOTAL HRS	: 52

#### LESSON PLAN

Serial Plan	Chapter Title / Reference Literature	Topic	Teaching Aids	Assignments / Tests planned for the chapter
1	TB2	<b>Module I</b> Planning for Security Introduction; Information Security Policy, Standards, and Practices; The Information Security Blue Print; Contingency plan and a model for contingency plan	Chalk & Talk	Assignment-1
2	TB1 & TB2	<b>Module II</b> Security Technology-1 Introduction; Physical design; Firewalls; Protecting Remote Connections	Presentation	
3	TB1		Chalk talk	

		<b>Module III</b> Security Technology – 2 Introduction; Intrusion Detection Systems (IDS); Honey Pots, Honey Nets, and Padded cell systems; Scanning and Analysis Tools.		
4	TB2	<b>Module IV</b> <b>CRYPTOGRAPHY</b> Introduction; A short History of Cryptography; Principles of Cryptography; Cryptography Tools; Attacks on Cryptosystems.	”	Assignment-2
5	TB1	<b>Part-B</b> <b>MODULE V</b> Introduction to Network Security, Authentication Applications Attacks, services, and Mechanisms; Security Attacks; Security Services; A model for Internetwork Security; Internet Standards and RFCs Kerberos, X.509 Directory Authentication Service.	”	Assignment-3
6	TB1	<b>MODULE VI</b> <b>Electronic Mail Security</b> Pretty Good Privacy (PGP); S/MIME	”	Assignment-4
7	TB1	<b>MODULEVII</b> <b>IP Security</b> IP Security Overview; IP Security Architecture; Authentication Header; Encapsulating Security Payload; Combining Security Associations; Key Management.	”	
8	TB1	<b>MODULE VIII</b> <b>Web Security</b> Web security requirements; Secure Socket layer (SSL) and Transport layer Security (TLS); Secure Electronic Transaction (SET)	”	

### Syllabus for Internal Assessment Tests (IAT)\*

IAT #	Syllabus
IAT-1	1,2,4(half)
IAT-2	3,5,6
IAT-3	4,7,8

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

**Literature:**

Book Type	Code	Author & Title	Publication information	
			Edition // Publisher	ISBN #
Text Book	TB1	Michael E whitman and Herbert J.Mattord : Principles of Information Security,2ndEdition,Cengage Learning 2005	Cengage Learning	978-81-315-0952-4
Text Book	TB2	William Stallings:Network Security Essentials:Application and Standards,3rd Edition	Pearson Education 2007	-
Reference	RB1	Behrouz A Forouzan :Cryptography and its principles	-	-

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**CMR INSTITUTE  
OF TECHNOLOGY**

**Session wise – Course Plan**
**Department of Information Science**

SEMESTER	: VIII	NAME OF THE FACULTY	: Mrs. Divya Singh
BRANCH	: ISE	DATE OF COMMENCEMENT	: 19.01.17
SUBJECT	: ADHOC NETWORKS	DATE OF CLOSING	: 20.05.17
SUBJECT CODE	: 10IS841	CLASS STRENGTH	: 98

Session No	Chapter no. (No of hrs planed for the chapter)	Date	Topics Planned for the Session	Teaching Aids	Assignment s/Tests Planned for the Chapter	Topics Covered as per Plan
			<b>UNIT 1: INTRODUCTION</b>			
1.	<b>1/6</b>	16-2-2017	Introduction, Applications	Power Point Presentation		
2.	<b>2/6</b>	16-2-2017	Issues in Ad hoc wireless Networks	”		
3.	<b>3/6</b>	23-2-2017	Issues in Ad hoc wireless Networks contd.	”		
4.	<b>4/6</b>	23-2-2017	Wireless Mesh & Sensor Network	”		
5.	<b>5/6</b>	2-3-2017	Wireless Mesh & Sensor Network contd.	”		
6.	<b>6/6</b>	3-3-2017	Ad hoc wireless Internet, Revision	”	Assignment 1 Issue date	

			<b>UNIT 2: MAC – 1</b>			
7.	<b>1/10</b>	3-3-2017	Introduction and Issues in designing goals for MAC protocol	”		
8.	<b>2/10</b>	4-3-2017	Classification of MAC Protocols	”		
9.	<b>3/10</b>	4-3-2017	Contention based protocols: MAC-Wireless, Floor acquisition protocol	”		
10.	<b>4/10</b>	9-3-2017	Busy Tone Multiple Access Protocol	”	Assignment 1 Submission date	
11.	<b>5/10</b>	10-3-2017	Contention based protocols with Reservation	“		
12.	<b>6/10</b>	10-3-2017	Distributed Packet Reservation Collision Avoidance Protocol	Board, chalk, duster		
13.	<b>7/10</b>	11-3-2017	Hop Reservation , Soft Reservation Protocol	”		
14.	<b>8/10</b>	11-3-2017	5phase, MACA/Piggy Back	”		
15.	<b>9/10</b>	16-3-2017	Real Time MAC Protocol	”	Assignment 2 Issue date	
16.	<b>10/10</b>	17-3-2017	Revision	PPT		
			<b>UNIT 3: MAC – 2</b>			
17.	<b>1/9</b>	17-3-2017	Contention based with Scheduling Mechanism- Distributed Priority Scheduling	”		
18.	<b>2/9</b>	23-3-2017	Distributed wireless ordering Protocol	”	Assignment 2 Submission date	
19.	<b>3/9</b>	23-3-2017	Distributed Laxity based Protocol	”		
20.	<b>4/9</b>	24-3-2017	MAC with directional antenna	”		
21.	<b>5/9</b>	25-3-2017	Multichannel MAC Protocol	”		
22.	<b>6/9</b>	25-3-2017	Multichannel CSMA Protocol	”		
23.	<b>7/9</b>	30-3-2017	Power Control MAC Protocol, Receiver Based Auto Rate protocol	”		
24.	<b>8/9</b>	30-3-2017	Revision	PPT	Assignment 3 Issue date	

25.	<b>9/9</b>	31-3-2017	Revision			
			<b>UNIT 6 TRANSPORT LAYER</b>			
26.	<b>1/9</b>	1-4-2017	Introduction, Issues in designing a transport layer protocol for Ad hoc wireless Networks	”		
27.	<b>2/9</b>	1-4-2017	Design goals of a transport layer protocol for Ad hoc wireless Networks	”		
28.	<b>3/9</b>	6-4-2017	Classification of transport layer solutions	”	Assignment 3 Submission date	
29.	<b>4/9</b>	6-4-2017	TCP over Ad hoc wireless Networks	”		
30.	<b>5/9</b>	7-4-2017	Feedback TCP,TCP-ELFN	”		
31.	<b>6/9</b>	8-4-2017	TCP BUS,ADHOC TCP	”		
32.	<b>7/9</b>	8-4-2017	Split TCP,	Board, chalk, duster	Assignment 4 Issue date	
33.	<b>8/9</b>	13-4-2017	Adhoc Transport protocol	”		
34.	<b>9/9</b>	13-4-2017	Revision	PPT		
			<b>UNIT 7 SECURITY</b>			
35.	<b>1/7</b>	20-4-2017	Network security requirements	”		
36.	<b>2/7</b>	21-4-2017	Issues & challenges in security provisioning	”	Assignment 4 Submission date	
37.	<b>3/7</b>	21-4-2017	Network security attacks	”		
38.	<b>4/7</b>	27-4-2017	Key management	”		
39.	<b>5/7</b>	27-4-2017	Secure routing in Ad hoc wireless Networks-SEAD	”		
40.	<b>6/7</b>	28-4-2017	Secure aware Routing	”		
41.	<b>7/7</b>	4-5-2017	Revision	PPT	Assignment 5 Issue date	
			<b>UNIT 4 ROUTING - I</b>			
42.	<b>1/9</b>	4-5-2017	Introduction, Issues in designing a routing protocol for Ad hoc wireless Networks	”		
43.	<b>2/9</b>	5-5-2017	Classification of routing protocols	”		
44.	<b>3/9</b>	5-5-2017	Table driven routing protocol - DSDV	”		
45.	<b>4/9</b>	6-5-2017	Table driven routing protocol - DSR	”		
46.	<b>5/9</b>	11-5-2017	Table driven routing protocol - WRP	”	Assignment 5 submission date	

47.	<b>6/9</b>	11-5-2017	On-demand routing protocol - AODV	”		
48.	<b>7/9</b>	11-5-2017	On-demand routing protocol-DORA	”		
49.	<b>8/9</b>	11-5-2017	On-demand routing protocol-ABR	”		
50.	<b>9/9</b>	12-5-2017	Revision	PPT		
			<b>UNIT 5 ROUTING II</b>			
51.	<b>1/7</b>	12-5-2017	Hybrid routing protocol-Core Extraction Routing	”	Assignment 6 Issue date	
52.	<b>2/7</b>	12-5-2017	Zone Routing protocol			
53.	<b>3/7</b>	13-5-2017	Routing protocols with effective flooding mechanisms-Preferred Link Based, Optimized Link state routing,	”		
54.	<b>4/7</b>	13-5-2017	Hierarchical state routing protocol	”		
55.	<b>5/7</b>	13-5-2017	Fisheye state Routing Protocol	”		
56.	<b>6/7</b>	18-5-2017	Power aware routing metrics	”		
57.	<b>7/7</b>	18-5-2017	Revision	PPT	Assignment 6 Submission date	
			<b>UNIT 8 QOS</b>			
58.	<b>1/8</b>	18-5-2017	Introduction	Board, chalk, duster		
59.	<b>2/8</b>	19-5-2017	Issues and challenges in providing QoS in Ad hoc wireless Networks	”		
60.	<b>3/8</b>	19-5-2017	Classification of QoS solutions	”		
61.	<b>4/8</b>	19-5-2017	MAC layer solutions	”		
62.	<b>5/8</b>	20-5-2017	MAC layer solutions contd.			
63.	<b>6/8</b>	20-5-2017	Network layer solutions.	”		

### Syllabus for Internal Assessment Tests (IAT) \*

IAT #	Syllabus
T1	Sessions: 1-24
T2	Sessions: 25-49
T3	Sessions: 51-63

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

**Literature:**

Book Type	Code	Author & Title	Publication information	
			Edition // Publisher	ISBN #
Text Book	TB1	C.Siva Ram Murthy & B.S Manoj: Ad hoc Wireless Networks,	2 <sup>nd</sup> Edition, Pearson Education, 2005.	9788131759095
Reference	RB1	Ozan K. Tonguz and Gianguigi Ferrari: : Ad hoc Wireless Networks	John Wiley, 2007.	9788126523047
Reference	RB2	Xiuzhen Cheng, Xiao Hung, Ding-Zhu Du: Ad hoc WirelessNetworking	Kluwer Academic Publishers, 2004.	978-1402077128
Reference	RB3	C.K. Toh: Adhoc Mobile Wireless Networks-Protocols andSystems	Pearson Education, 2002.	9788131715109

**CRC**

**HOD**

**PRINCIPAL**