

 NIIST BHOPAL		NRI INSTITUTE OF INFORMATION SCIENCE & TECHNOLOGY DEPARTMENT NAME: <u>COMPUTER SCIENCE AND ENGINEERING</u>		FORM NO	NIIST/A/10
BRANCH	CSE	<u>LIST OF EXPERIMENTS</u>		REV. NO	0
SEMESTER	IV			REV. DT	30/06/2011
SUBJECT NAME: ADA			SUBJECT CODE: CS 402		

1	Write a program for Iterative and Recursive Binary Search.
2	Write a program for Merge Sort.
3	Write a program for Quick Sort.
4	Write a program for Strassen's Matrix Multiplication.
5	Write a program for optimal merge patterns
6	Write a program for Huffman coding
7	Write a program for minimum spanning trees using Kruskal's algorithm.
8	Write a program for minimum spanning trees using Prim's algorithm.
9	Write a program for single sources shortest path algorithm.
10	Write a program for Floye-Warshal algorithm.
11	Write a program for traveling salesman problem
12	Write a program for Hamiltonian cycle problem.



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SEMESTER	IV			REV. DT	30/06/2011
SUBJECT NAME: SOFTWARE ENGG			SUBJECT CODE: CS 403		

1	Study of “software development life cycle”(SDLC)
2	Study of “Rapid Application Development”(RAD)
3	Study of “Spiral” model
4	Prepare a data flow diagram (DFD) for result management system
5	Prepare a data flow diagram (DFD) for library management system
6	Study of software analysis model
7	Study of software design model. Study and use the Rational Roseproducts
8	Study of various software testing techniques
9	Study of “COCOMO” model.
10	Implementation of simple project



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SEMESTER	IV			REV. DT	30/06/2011
SUBJECT NAME: COA		SUBJECT CODE: CS 404			

1	Study of Multiplexer and Demultiplexer
2	Study of Half Adder and Subtractor
3	Study of Full Adder and Subtractor
4	WAP to add two 8 bit numbers and store the result at memory location 2000
5	WAP to multiply two 8 bit numbers stored at memory location 2000 and 2001 and stores the result at memory location 2000 and 2001.
6	WAP to add two 16-bit numbers. Store the result at memory address starting from 2000.
7	WAP which tests if any bit is '0' in a data byte specified at an address 2000. If it is so, 00 would be stored at address 2001 and if not so then FF should be stored at the same address.
8	Assume that 3 bytes of data are stored at consecutive memory addresses of the data memory starting at 2000. Write a program which loads register C with (2000), i.e. with data contained at memory address 2000, D with (2001), E with (2002) and A with (2001).
9	Sixteen bytes of data are specified at consecutive data-memory locations starting at 2000. Write a program which increments the value of all sixteen bytes by 01.
10	WAP to add 10 bytes stored at memory location starting from 3000. Store the result at memory location 300A



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BRANCH	CSE	<u>LIST OF EXPERIMENTS</u>		REV. DT	30/06/2011
SEMESTER	IV				
SUBJECT NAME: OPERATING SYSTEM			SUBJECT CODE: CS 405		

1	Write a program to implement FCFS CPU scheduling algorithm
2	Write a program to implement SJF CPU scheduling algorithm
3	Write a program to implement Priority CPU Scheduling algorithm
4	Write a program to implement Round Robin CPU scheduling algorithm.
5	Write a program to compare various CPU Scheduling Algorithms over different Scheduling Criteria
6	Write a program to implement classical inter process communication problem(producer consumer).
7	Write a program to implement classical inter process communication problem(Reader / Writers).
8	Write a program to implement classical inter process communication problem(Dining Philosophers).
9	Write a program to implement & Compare various page replacement algorithm.
10	Write a program to implement & Compare various Disk & Drum scheduling Algorithms
11	Write a program to implement Banker's algorithm
12	Write a program to implement Remote Procedure Call(RPC)
13	Write a Devices Drivers for any Device or pheripera



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BRANCH	CSE	<u>LIST OF EXPERIMENTS</u>		REV. NO	0
SEMESTER	IV			REV. DT	30/06/2011
SUBJECT NAME: Programming Practices (b) (Dot Net Technologies) SUBJECT CODE: CS 406					

1	Working with call backs and delegates in C#
2	Code access security with C#.
3	Creating a COM+ component with C#.
4	Creating a Windows Service with C#
5	Interacting with a Windows Service with C#
6	Using Reflection in C#
7	Sending Mail and SMTP Mail and C#
8	Perform String Manipulation with the String Builder and String Classes and C#:
9	Using the System .Net Web Client to Retrieve or Upload Data with C#
10	Reading and Writing XML Documents with the XML Text-Reader/-Writer Class and C#
11	Working with Page using ASP .Net.
12	Working with Forms using ASP .Net
13	Data Sources access through ADO.Net,
14	Working with Data readers , Transactions
15	Creating Web Application

