



AmratlalRaichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
MohanlalRaichand Mehta College of Commerce
Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, AiroliNavi Mumbai

Date: 07/11/2022

NOTICE

All departmental members are hereby informed that the department meeting is arranged on Nov 07, 2021 at 8:00 a.m. in the Computer Science Laboratory.

Agenda

- 1. Conduction of Bridge Course of SYCS students
- 2. Subject Distribution
- 3. Work Distribution

Asst. Prof. Janhavi Kshirsagar

Co-ordinator CS-IT Dept

Dr. B.R. Deshpande

Vice Principal

Dr. (Mrs.) Leena Sarkar

PRINCIPAL
Principalvikas mandats
M.R. MEHTA COLLEGE OF COMMERCE
D.M. COLLEGE OF SCIENCE
A.R. MEHTA COLLEGE OF ARTS
Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENCE
Plot No.9, SEC. 19, AIROLI,
NAVI MUMBAI-400 708





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Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, AiroliNavi Mumbai

Date: 08/11/2022

Minutes of Meeting

November 07, 2022

The departmental meeting was held on November 07, 2022 at 8:00 a.m. in Computer Science Laboratory

Following matters were discussed and finalized as per agenda.

Conduction of Bridge Course for SYCS students

It was decided that Bridge Course should be conducted from 07th November 2022 to 16th November 2021. A total of 4 subjects are included in Bridge Course. And it was decided that it should be of 30 hours.

Subject Distribution

It was decided that Basics of Core Java and Android subject will be taken by Mrs. Janhavi Kshirsagar, Fundamentals of .NET and PL/SQL subject will be taken by Mrs. Sarita Sarang, Introduction to Software Engineering and Computer Networks subject will be taken by Dr. Sanjivani Nalkar and Basics of Algorithms and Linear Algebra subject will be taken by Ms. Shakuntala Kulkarni.

Adjournment

Meeting was adjourned at 8:30 a.m.







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Date: 07/11/2022

Following members were present:

Dr. (Mrs.) Leena Sarkar - Principal

Dr. B. R. Deshpande - Vice-Principal

Asst. Prof. Janhavi Kshirsagar

Asst. Prof.Sarita Sarang

Dr. Sanjivani Nalkar

Asst. Prof. Shakuntala Kulkarni

Signature

Auxani -





JNAN VIKAS MANDAL'S DEGREE COLLEGE

NAAC RE-ACCREDITED 'A' GRADE (CGPA 3.33) Plot No. 9,Sector-19, Airoli, Navi Mumbai

DEPARTMENT OF COMPUTER SCIENCE ORGANIZES ONLINE BRIDGE COURSE FOR SECOND YEAR COMPUTER SCIENCE

Mrs. Sarita Sarang Dr. Sanjivani Nalkar Ms. Shakuntala Kulkarni

Platform : Google Meet

Date: 07th November-17th November 2022 Duration : 30 Hours

Mrs. Janhavi Kshirsagar CS-IT Coordinator and Course Convener Dr.(Mrs.) Leena Sarkar Principal and Chairparson





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Plot no.9, Sector -19, Airoli, Navi Mumbai

Bridge Course for SYBsc(CS)

Duration: - 30 hours

OBJECTIVES: -

- 1) To bridge the gap between subjects studied at pre-university level and subjects they would be studying in graduation.
- 2) To provide adequate foundation in core subjects, limited to moderate level so that students do not face any difficulty when the classes commence.
- 3) To act as a buffer for the new entrance.
- 4) To demonstrate a breadth and depth of knowledge in the discipline of computer science and information technology.

OUTCOME: -

Students will be able to

- 1) Equipped with the knowledge and confidence needed to take on bigger challenges.
- 2) Impact basic knowledge in them about advanced subjects that will be taught to them in upcoming future.
- 3) Understand the essence of knowledge gained beyond curriculum.



Module	Contents	Number of hours
I	Module: Python and Free Open Source Software:	6 hours
	Introduction to Python, Data types, Python Tokens,	I The second
	operators, keyword, types of Statements. Programs	
	based on above topics.	
	List, Built in methods of List. Difference between	
	mutable and immutable. Tuples, Built in methods of	,
	tuples. Dictionaries. Built in methods of Dictionaries.	
	Programs based on above topics	*
	Built in Functions, User-defined Functions.	= g n
	introduction to object-oriented programming	
	Programs based on above topics	<u></u>
	Exception Handling	() ()
gg =	Free Open Source Software:	ž.
	Introduction: Open Source, Free Software, Free	ji H
	Software vs. Open Source software, Public Domain	
	Software, FOSS does not mean no cost. History:	Permiser of hours
	BSD, The Free Software Foundation and the GNU	and the second
	Project.	
	Open Source History, Initiatives, Principle and	
	methodologies. Examples: Wikipedia, Android,	
	Linux, Wordpress, GitHub	D
	Linux, wordpress, Gidius	2
	Case study/Assignment and test	1 hour
	Case study/Assignment and test	1 11041
		(1
II	Module: Database Management System and	6 hours
	MySQL	
	Introduction to DBMS – Database, DBMS –	=
	Definition, Overview of DBMS, Advantages of	(A)
	DBMS, Levels of abstraction, Data independence,	=
	DBMS Architecture,	
	Entity Relationship Model - Entities, attributes, entity	4.
	sets, relations, relationship sets. SQL(Structured	
	Query Language),SQL statements	\$ ⁸
		4 1
	Case study/Assignment and test	1 hour
III	Module: Operating System and Linux	6 hours
	Linux	= =
	History of Linux, philosophy, community,	1 0
	terminology, Distributions,	· · ·
	Linux Kernel vs. distribution. Linux Architecture,	- war
	File systems basic, The boot process, init scripts, run	1
	levels, shutdown process, File system, File system	
	architecture, file types, File attributes, working	
	with files, Understanding Linux Security, Users of	
	with theb, Charlettaning Email Sevening, Steris of	

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	passwords, Packaging methods: rpm/deb, Graphical Vs Command line.	
9 '	Operating Systems:	
=	Introduction and Operating-Systems Structures:	
	Definition of Operating system, Operating System's	
	role, Operating-System Operations, Functions of	
		20 21 2
	Operating System, Computing Environments,	
	Operating-System Services, User and Operating-	
	System Interface, System Calls, Types of System	8 1 X
	Calls, Operating-System Structure,	, and the second
2 7 7 8 6	Deadlocks, Deadlock Prevention, Deadlock	
*	Avoidance, Deadlock Detection	
8 /	,	1 .
	Case study/Assignment and test	1 hour
	Case study/11ssignment and test	1 Hou
IV	Madula Computar Organization & Design and	6 hours
TA	Module: Computer Organization & Design and	o nours
, 2	Digital Electronics	
, 6	Computer Organization & Design:	
	Computer Organization and Architecture, Computer	a a
A 11 2	types, Basic Terminologies, Computing Systems,	¥
	Functional Unit of Computer, Basic Operational	8
	Concepts, Registers, Interrupt, Bus structure,	
	Performance, Memory Location and Addresses,	
	Address Space, Big Endian, Memory Operations	8.77
	Digital Electronics:	=
	Logic Circuits, Basic Logic Gates, NOT Gate, AND	2
E	Gate, NOR Gate, NAND Gate, NOR Gate, EX-OR	ş.
	Gate, EX-NOR Gate, Applications of Logic Gates,	1
	Multiplexer, Demultiplexer, Number System-Binary,	2 2
	Octal, Decimal, hexadecimal, Conversion, Electronic	
	translators	#
2 2	Case study/Assignment and test	1 hour
0	***	1 110 011
V	Module: C programming and Data Structure	6 hours
*		0 110013
2	Introduction to C, Data types, C Tokens, operators,	e
	Types of Operator keyword, types of Statements.	
	Programs based on above topics. Introduction to	
2 8 2	Control Structure, simple if, i-else, nested if, Loops,	= w
W H	Types of loops, Switch-Case, Jump Statements -	
= "	break, Continue, goto Statements.	
	Programs based on above topics.	= ""
1 = 5 - 5	Introduction to Array, Syntax Types of Array,	H.
8	Memory allocation of array elements, One	
		ī
	dimensional array, Two dimensional array,	İ
	Built in Functions, User-defined Functions.	



		*
	Programs based on above topics	8
5	Introduction to Data structure. Need of Data	
93	Structure. Types of Data Structures. Operations can	- W = W
25 gs	be performed on Data Structure.	- All 1
F. 1	Searching and Sorting: Searching-Linear Search,	
	Binary Search, Sorting-Bubble, Selection and	
	Insertion Sort,	1
	Linked Structures: Introduction, Singly Linked List-	
	Traversing, Searching, Prepending and Removing	2
	Nodes,	
	Stacks: Stack, Operations on Stack	
	Queues: Queue, operations on Queue.	
	Non-Linear Data Structure: Trees and Graphs	
	Case study/Assignment and test	1 hour

Time Table:

	SYCS B	ridge Co	urse Sem	-IV Time	Nov2022	2	
Date	07-11-2022	09-11-2022	10-11-2022	11-11-2022	12-11-2022	14-12-2022	15-11-2022
7:50-8:40	SE	Java	SE	lava	LA	CN	PL/SQL
8:40-9:30	.Net	Algorithm	Algorithm	Algorithm	Android	PL/SQL	LA
9:30-9:50				BREAK		A 1	
9:30-9:50	Algorithm	SE	Net	SE	PL/SQL	LA	Android
9:50-10:40	Java	.Net	Java	.Net	CN	Android	CN

Basics of core Java and Android-Mrs. Janhavi Kshirsagar
Fundamentals of .Net and PL/SQL-Mrs. Sarita Sarang
Introduction to Software Engineering and Computer Science- Dr. Sanjivani Nalkar
Basics of Algorithm and Linear Algebra- Ms. Shakuntala Kulkarni



Exam Paper:

2022	nination (<u>S.</u>		***
2022 Date 17-08-2021			Manusia
Ena «			
zman. Validemali			
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SACR MILES WAS SERVED AND AND AND AND AND AND AND AND AND AN			
	-		
Answer key (5 points)		O	B Required > 3
Name of the Student:*			
Short enswer text			
***************************************	94949337749453457494		
A source program is usually in*			
Assembly language			
(1) Maghine level language			



A source program is usually in*	2 points
Assembly language	
Machine level language	
High-level language	
Natural language	
The ALU makes use of to store the intermediate results. *	2 points
Accumulators	
Registers	
Heap	
◯ Stack	
The NOR gate output will be high if the two inputs are*	2 points
O 00	
O 01	
O 10	
O 11	
Which input values will cause an AND logic gate to produce a HIGH output? At least one input is HIGH At least one input is LOW All inputs are HIGH All inputs are LOW	* 2 point
If the decimal number is a fraction then its binary equivalent is obtained by the number continuously by 2.	ed * 2 point
Olviding Olviding	
○ Multiplying	
Adding	
Subtracting	



Which one is not the keyboard of C language? *	2 points
○ static	
O void	
O int	1
O data	
C Program is converted into machine Language with the help of *	2 points
Compiler	
Operating System	
○ Editor	
Interpreter	
	_
Process of inserting an element in stack is called*	2 points
○ Create	
○ Evaluation	
O Push	
Pop	
In linked list each node contains a minimum of two fields. One field i data field to store the data second field is?	S * 2 points
O Pointer to node	
O Pointer to character	
O Pointer to integer	
○ Node	
Format specifier for double data type is *	2 points
○ %f	
○ %if	
○ %d	r:
○ %a	•
Which of these in not a core data type? *	2 points
Class	
○ Lists	
O Dictionary	
O Tuples	DEGREE

	To add packages or module in the program statement is used.	* 2 points
	○ Use	
	O Add	
	O import	
	○ AddModule	
1000		
	By default division operator(/) returns the result in format. *	2 points
	integer	
	(int	w.
	Boolean	
	C Floating point	
20000		
***************************************	The users must agree to the terms and agreements when they use open-source software.	* 2 points
Andrew Andrews	System	
NAVA A RELO AND RESERVE	○ License	
THE PERSON OF TH	Community	
THE PARTY OF THE P	Programmer	
	FOSS stands for *	2 points
	Free Open System Service	
Accession development	Free Open Source Software	
VANCOURANT ANNUARY	Free Open Service Software	
- Section of the sect	Free Synchronized Software	
The second second	What command is used to remove files? *	2 points
Average County of the County o	O dm	
***************************************	O m	
Water Control of the	delete	
Second term	O erase	

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loca	IX operating system . It is possible to run commands that are not ated in a directory listed in the PATH if you know the full path and mmand name.	* 2 points
0	can run on PC's and larger system	* / *
0	is multitasking	
0	is multiuser	i La en a a d
0	all of these	
Wh	ich of the following is not an operating system? *	2 points
0	UNIX	
0	MS-DOS .	
0	CP/M	
$\overline{\bigcirc}$	PASCAL	
Whi	ch directory contains the system kernel? *	2 points
0	/etc	
\bigcirc		
\bigcirc	/boot	
\bigcirc	/proc	*
	ch utility provides contact and name server information about the cified domain?	* 2 points
\circ	nameserver	
0	whois	
\bigcirc	finger	
\circ	host	
ln ar	n E-R diagram an entity set is represent by a *	2 points
0	rectangle	
0	diamond box	
>	ellipse. circle.	*



Data independence means * 2 points	
data is defined separately and not included in programs.	
programs are not dependent on the physical attributes of data.	
programs are not dependent on the logical attributes of data.	•
both (B) and (C).	
Key to represent relationship between tables is called * 2 points	
O Primary key	
Secondary key	
○ Foreign Key	
None of the Above	
What is a relationship called when it is maintained between two entities	es? * 2 points
Unary	
Binary	
○ Ternary	
Quaternary	i
The full form of DDL is *	
THE TURNOLITY OF DDL IS	2 points
O Dynamic Data Language	st
O Data Derivation Language	
O Data Definition Language	
O Detailed Data Language	e e
Submit	Clear form
	micai mil

Leena





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Padmashree(Dr.) R.T. Doshi Degree College of Computer Science Plot no.9, Sector -19, AiroliNavi Mumbai

Roll No :	Name of the Student:	Score	Result
1601	Amisha Anirudhan Achari	40	Pass
1602	Abhimanyu	50	Pass
1603	Pranil Dhamal	46	Pass
1605	GAUTAM RAVISHANKAR DURGASHANKAR	42	Pass
1608	Rahul	36	Pass
1609	Sahil Harishchandra Gupta	40	Pass
1610	Vinit gupta	44	Pass
1613	Pranay shankar jadhav	46	Pass
1615	KADAM YASH RAMESH	46	Pass
1616	Sapna Kapil Kewat	38	Pass
1618	Sujal lodha	14	Pass
1619	Vinita mandal	44	Pass
1620	Ketna Mhatre	44	Pass
1621	Mhetre Ganesh Vishwanath	34	Pass
1623	Deepak pal	32	Pass
1624	Ravi shivpher pal	34	Pass
1625	Shivani Pandey	42	Pass
1626	Yash Bramhadev Pandey	38	Pass
1629	Ankit prajapati	46	Pass



1630	Ankit Rai	40	Pass
1632	Walid Shaikh	50	Pass
1633	Aman	32	Pass .
1634	Pradeep Shukla	42	Pass
1635	Khushboo singh	38	Pass
1637	Arpit Premnarayan Tiwari	38	Pass
1637	Arpit Premnarayan Tiwari	36	Pass
1638	Anurag Verma	48	Pass
1640	Pawan yadav	30	Pass
1642	Khan Ajaj	24	Pass
1643	Atharva Santosh Shinde	38	Pass
1645	Bhagyshri Babu Bhandari	42	Pass
1646	Sakshi Naik	48	Pass
1647	Kumud Singh	46	Pass
1648	Anshu Virendra chaurasiya	26	Pass
1649	Aryan Mahendra Mokashi	44	Pass
1650	Smita Gavit	36	Pass
1651	Anushka Chavan	46	Pass
1652	Aniruddh Suhas Hatkar	50	Pass
1654	Kashish kamble	46	Pass
1655	Amit udaybhan thakur	42	Pass .
1656	Amit udaybhan thakur	42	Pass



Feedback Form:

SYCS Sem III Bridge Course Feedback Form Form description Email * Valid email This form is collecting emails. Change settings * Name of the Student Short answer text * Roll Number * Short answer text



Were the objectives of the course clear to you? *			
O Very Clear		A	
Moderately Clear			
O Not at all Clear			
The lectures were clear & easy to understand. *			
Strongly Agree			
Agree			
Neutral			
O Disagree		·	
Strongly Disagree			
The course was organized in a manner that helped you unders	stand the underlyi	ng concepts	*
Strongly Agree			
○ Agree			8 /
O Neutral			
○ Disagree			
Strongly Disagree		ı	
How useful to you was this course? *			
O Very Useful	ATA DEGRE		
Moderately useful	AIROLI O NAVI MIMBA	(0)	
O Not at all useful	30	3	

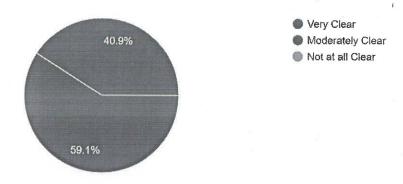
How much did you learn from this course? *			
A great deal			1121
○ A lot			
A moderate amount			1
○ A little			
Nothing			
Overall, how would you describe the quality of the	instruction in this course?) **	5 8 2 2
C Excellent			
O Very good			
○ Good			,
○ Fair			
O 2000			
OPoor			1 , 2
What skills or knowledge did you learn or improve?	*		
Long answer text			
And the second s		***************************************	



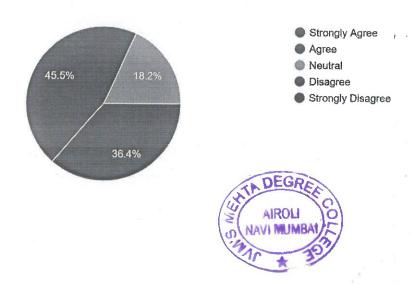
Feedback Analysis:

Bridge course Feedback Analysis SYCS Sem-III June 2022-23

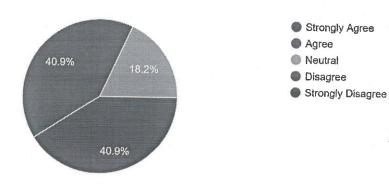
Were the objectives of the course clear to you? 22 responses



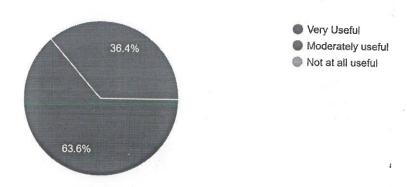
The lectures were clear & easy to understand. 22 responses



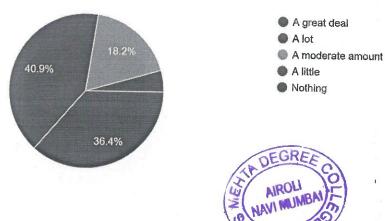
The course was organized in a manner that helped you understand the underlying concepts. 22 responses



How useful to you was this course? 22 responses

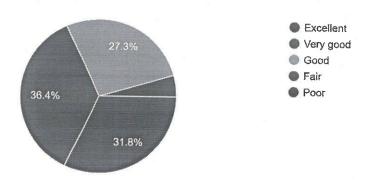


How much did you learn from this course? 22 responses



Leens

Overall, how would you describe the quality of the instruction in this course? 22 responses



Certificate:



Jnan Vikas Mandal's Degree College

Plot No.9, Sector-19, Airoli, Navi Mumbai, Maharashtra - 400708 NAAC RE-ACCREDITED 'A' GRADE (CGPA-3.33)

Certificate of Participation

This certificate is awarded to

<<NAME>>

of SYBSc(OS) who has successfully completed Bridge Course organized by Department of Computer Science of JVM's Degree College from O7th Nov 2022 to 17th Nov 2022.

JAKGULLABON

Assi Prof. Janhavi Kshirsagar Co-ordinator, CS-IT Sakar

Dr. (Mrs.) Leena Sarkar Principal

Keena





Mohanlal Raichand Mehta College of Commerce Diwali Maa Degree College of Science Amritlal Raichand Mehta Degree College of Arts Padmashree (Dr.) R.T. Doshi Degree College of Computer Science Plot no.9, Sector -19, Airoli, Navi Mumbai

Report on Bridge Course

The bridge course was conducted for Second Year computer science students from 07/11/2022 to 15/11/2022. The duration of the course was 30 hours. Total 10 subjects were included in the course. The course was conducted by Computer Science department faculty members.

Mrs. Janhavi Kshirsagar

Basics of Core Java and Android

Dr. (Mrs.) Sanjivani Nalkar

Introduction to Software Engineering and Computer

Networks

Mrs. Sarita Sarang

Fundamentals of .NET and PL/SOL

Ms. Shakuntala Kulkarni

Basics of Algorithms and Linear Algebra

The course benefitted 42 students.

The intention of this course was to bridge the gap between subjects studied at an earlier level and subjects to be learned in the next year of graduation. The course contents were designed to give enough knowledge of the subject as well as its application in the industry. The course also aimed at laying a strong foundation for the students.

A test was conducted for all the students using Google Form. All subject teachers shared 5 questions of their respective subjects.

Due to network issues some students had not submitted paper, so retest was conducted the following day. A student has to secure a minimum 40% in the test to qualify for the certificate.

Successful students were awarded certificates for the bridge course.

Asst. Prof. Janhavi Kshirsagar

Coordinator, CS-IT Department

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A.R. MEHTA COL Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENCE Plot No.9, SEC.- 19, AIROLI

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