MCS. Bridgecom sem. V

#### JNAN VIKAS MANDAL'S



Mohanlat Raichand Mehta College of Commerce
Diwali Maa Degree College of Science
Amrital Raichand Mehta Degree College of Arts
Padmashree (Dr.) R.T. Doshi Degree College of Computer Science
Plot No.9, Sector -19, Airoli, Navi Mumbai
NAAC Re-Accredited CGPA-3.33 'A'-Grade

Date: 11/06/2022

#### NOTICE

All departmental members are hereby informed that the department meeting is arranged on June 11, 2021 at 10:30 a.m.

#### Agenda

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

Asst. Prof. Janhavi Kshirsagar

Coordinator CS-IT DEPT

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Dr.(Mrs)Leena Sarkar

Principal INCIPAL

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A.R. MEHTA COLLEGE OF ARTS

DV. R.T. DOSHI COLLEGE OF G. MEPUTER SCIENCE

PION NO.9, SEC. 19, AIROLI,

NAVI MUMBAI-400 708

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#### Minutes of Meeting

The departmental meeting was held on June 11, 2022, at 10:30 a.m.

Following matters were discussed and finalized as per agenda.

## Conduction of Bridge Course for TYCS students

It was decided that the Bridge Course should be conducted from 13/06/2022 to 18/06/2022 Total 4 subjects are included in the Bridge Course. And it was decided that it should be for 30 hours.

## Subject Distribution

It was decided that Java subject will be taken by Mrs. Janhavi Kshirsagar, .Net and Web subject will be taken by Mrs. Sarita Sarang, SE and ST subject will be taken by Dr. Sanjivani Nalkar and DCN and Linux subject will be taken by Ms. Shakuntala Kulkarni and Android subject is taken by Mrs. Sarita Sarang and Dr. Sanjivani Nalkar. All the teachers were asked to design a syllabus for 7 hours each and share the syllabus by 13<sup>th</sup> June 2022.

## Exam conduction of bridge course

After completion of lectures of bridge course on FridayJune 18<sup>th</sup> , 2022 exam will be conducted for students.

Asst.Prof. Sarita Sarang will conduct exams for TYCS students.

It will be conducted on google form and the exam will be conducted at 2 pm.

And finally the marksheet will be shared to the certificate committee for distribution of certificates.

Following members were present:

Dr.(Mrs.) Leena Sarkar

Asst. Prof. Janhavi Kshirsagar

Asst. Prof Sarita Sarang

Asst. Prof Sanjivani Nalkar

Asst. Prof Shakuntala Kulkarni

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#### Course Syllabus

**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 the upcoming future.
- 3) Understand the essence of knowledge gained beyond the curriculum.

Module	Contents	No of hours
I	Module: Java Programming	6 hours
	Introduction to Java, History, Features of Java, Java	
	programming format, Java Tokens, Java Statements, Java	
52.5	Data Types.	2 4 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1
# 17 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Basic programs based on these topics	Production in the second
	Introduction, Class, Object, Static Keywords, Constructors,	in the state of th
	this Keyword, Inheritance, super Keyword, Polymorphism	
1 0		GRA

	Basic programs based on these topics	2 2 2 E
0 a	Interfaces, Introduction to predefined packages (java.lang,	1
4	java.util, java.io, java.sql, java.swing), User Defined	× × ×
a s a x	Packages, Access specifiers, Exception Handling.	
- c = 1	Basic programs based on these topics	4
	Swing: Need for swing components, Introduction to Swing	
	components: Jlabel, JTextField and JPasswordField,	
0	JTextAres, JButton, JCheckBox, JRadioButton,	
	JComboBox and JList	
6 g - 6	JDBC: Introduction, JDBC Architecture,	
	Servlets: Introduction, Web application Architecture, Http	
8 0 E R	Protocol & Http Methods, Web Server & Web Container	ř
	JSP: Introduction	
*	Casa study/A ssignment and that	-4.1
ar V	Case study/Assignment and test	1 hour
П	Module: Software Engineering and Software Testing	6 hours
3	Software Engineering:	
	The Nature of Software, Software Engineering, The	
	Software Process, Generic Process Model, The Waterfall	
N N N N	Model, Incremental Process Models, Evolutionary Process	e e
2 2 2	Models, Concurrent Models, Component-Based	
9	Development, The Unified Process Phases, Agile	ı
	Development- Agility, Agile Process, Extreme	
2	Programming,	
× 2	SRS, Characteristics of SRS, Object-oriented design using	4 " ×
	the UML - Class diagram, Object diagram	
8 "	Software Testing	a second
- P	Verification and Validation, Introduction to Testing,	* * * * * * * * * * * * * * * * * * *
	Testing Principles, Testing Objectives, Test Oracles,	
AS .	Levels of Testing, White-Box Testing/Structural Testing,	į.
7	Functional/Black-Box Testing	
to =	Test Plan, Test-Case Design	
12	TA D	EGP

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	Case study/Assignment and test	1 hour
III	Module: .NET and Web Programming	6 hours
	Overview of .NET Framework, Objectives, Main	
	components of .NET Framework and their overview, Types	*
	of Applications .NET Framework Architecture-	
	CLR, Features, Managed Execution Process, CTS, CLS	, m
	Assemblies(Assembly overview, Benefits, Contents,	
	Types), Basics of C#.NET, Data Types and Variables,	
	Statements, Methods: Functions and Subroutines	*
	Introduction of HTML, HTML Tags - Formatting text by	
	using tags, using lists and backgrounds, Creating	ı
	hyperlinks and anchors,tables	M W
	1	
	Case study/Assignment and test	1 hour
IV	Module: Android	6 hours
	Introduction to Android: History, Basics of Android UI,	=
	Android Versions, Open Handset Alliance, Native Android	0
	Applications, Comparison with other Operating	*
	System. Android Software Stack: Linux Kernel, Libraries,	
	Android Runtime, Application Framework, Application	
	Layer.	=
	Android Architecture Android SDK features, Android	
	Debug Bridge, Gradle.	
	Android App Software Components: Activity, Service,	
	Content Provider, Broadcast Receiver, Intent.Android	
	Permissions and Limitations	
	Activities and Lifecycle, Fragments and Intents -	
	Working with Activities-creating activity, starting	n n
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		- 18
	activity, managing life cycle of activity, applying themes and styles, displaying dialog in activity; Using Intents-exploring intent objects, filters passing data using objects in intents; Fragments, Intent Object to Invoke Built- in Application, Basic Views: TextView, Button, ImageButton, EditText, CheckBox, ToggleButton, RadioButton,	1
	Case study/Assignment and test	1 hour
V	Module: Data Communication and Network  Network Basics, Nodes, Links, Layers, Layered Tasks, OSI  Model, Layers of OSI Model, TCP/IP Network Model, Packet encapsulation, Packet Forwarding, Routing, Data Communication, Components of Data Communication System, Data flow, Networks, Network criteria, Physical structures, Topology: Star, Bus, Mesh, Hybrid, Ring, LAN, MAN, WAN, Internet, Protocols LAN Topologies: Bus, Star, Ring, Switched, daisy chains, hierarchies.  WAN Topologies: Peer-to-Peer WAN, Ring WANs, Star WAN, Full-Mesh WAN, Partial Mesh, Two-tiered, Three tiered, Hybrids	6 hours
	Case study/Assignment and test	1 hour



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## Time Table



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***************************************	TICSD	nage Cou	irse riine	table 202	L-L3	T
Time	13-Jun	14-Jun	15_Jun	16-Jun	17-Jun	18-Jun
8:00 am-9:00 am	.Net	DCN	Android	ST	Linux	Java
9:00 am-10:00am	DCN	NET	Linux	Web	Java	Android
10:10 am-11:10 am	SE	Java	Web	Java	ST	ST
11:10 am-12:10	Java	SE	Java	Android	Android	Linux
12:20 pm -1:20 pm	Android	Android	SE	DCN	.NET	Web
						-
JAVA : Mrs. Janhavi	SE and ST:	Dr.Sanjivani				
Net & Web : Mrs. Sarita	Android : Mrs.	Sarita Sarang				
DCN and Linux: Ms. Sha	kuntala Kulkarn	i				
				_		*
Mrs. Janhavi Kshirsagar				Dr.	(Mrs.) Leena Sa	ı ırakar
CS/IT Co-ordinator				Principal		
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# Exam Paper:

Bridge Course Examination	
( <u>T.Y.B.Sc</u> (C.S)) June - 2022	
sarita.sarang@jnanvikasmandal.com Switch account	<b>Ø</b>
* Required	
Email *	
Your email	
Roll No : *	
ROIL NO	
Your answer	
Name of the Student: *	
Your answer	
Communication between a computer and a keyboard involvestransmission.	* 2 points
( ) Automatic	
O Half-duplex	
C Full-duplex	
Simplex	
Three or more devices share a link in connection. *	2 points
○ Unipoint	
Multipoint	
O Point to point	
Simplex	
The number of layers in ISO OSI reference model is*	2 points
O 5	
0 7	
O 10	



O Code



The process to gather the software requirements from client, analyze and document them is known as	* 2 points
Feasibility Study	
Requirement Gathering	
Requirement Engineering	
System Requirements Specification	
Who invented World Wide Web (WWW)? *	2 points
O Blaise Pascal	
Charles Babbage	
O Herman Hollerith	
Tim Berners-Lee	
.NET framework supports unique feature of*	2 points
Garbage collection	
O Development Process	
Language Interoperability	
( Assemblies	



What is CLR? *	2 points
Common Language Runtime	
Compiler language runtime	
Compiler library runtime	
Common library runtime	
Code that targets the Common Language Runtime is known as *	2 points
○ Unmanaged	
O Distributed	
○ Managed	***************************************
O Native	
Which tag is used to display Preformatted texts? *	2 points
<pre> <pre> </pre></pre>	***************************************
<pre> <pre>prefor&gt; </pre></pre>	
<pre> <pre>pre text&gt; </pre></pre>	
<pre> <pre>pre format&gt; <!-- pre format--></pre></pre>	



Constructors are used to the object. *	2 points
O Develop	
O Initialize	
O Delete	
O Process	
When does Exceptions in Java arises in code sequence?*	2 points
O Run Time	
Compilation Time	
Can Occur Any Time	
Before compilation time	
3) Which of these keywords is used to define packages in Java? *	2 points
○ pkg	
○ Pkg	
) package	
Dockman	



DELETE statement of an SQL is executed by *	2 points
execute()	
<pre>executeQuery()</pre>	
executeDelete()	
executeUpdate()	
is responsible for managing execution of servlet *	2 points
○ ServletContext	
○ Web Container	
O JAM	
○ Server	
Submit	Clear form



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# **List of Participants**

ll No :	Name of the Student:	
1717	<del></del>	
27		
1729	Vasanth	
1719	Bhakti nakhwa	
1710	atharv khandge	
1701	Rupinder Singh bal	
1704	Nilesh	
1728	Vijay Gaud	
1706	Mansi Das	
1714	Mugale Megha Anand	
1726	Suraj yadav	
590 20	Soham surve	
1709	Suvarna Suresh Kapase	
1615	Nipur Pathak	
1722	SHRUTI SUNIL SHIRKE	
1705	Yuvraj chavan	
1723	Gaurav Santkumar Singh	
1721	Harshal shinde	
1702	Vaishnavi bhosale	
1711	Sujit khot	
1704	Manoj Laxman Birajdar	
1707	Dhanawade Sanket	
1712	Nirmiti Narendra Mestri	
1724	Vedant	
1719	Ganesh sethi	
1716	Vignesh Puri	
	1717 27 1729 1719 1710 1701 1704 1728 1706 1714 1726  1709 1615 1722 1705 1723 1721 1702 1711 1704 1707 1712 1712 1719	

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# Feedback Form:



Jnan Vikas Mandal's Degree College NAAC Reaccredited 'A' Grade (CGPA-3.33) Plot No. 9, Sector 19, Airoli, Navi Mumbai, Maharashtra—400 708

BRIDGE COURSE FEEDBACK I	FORM
Form description	, i
Email *	
Valid email	
This form is collecting emails. Change settings	
NAME OF THE STUDENT *	
Short answer text	
ROLL NUMBER *	
Short answer text	
	and the state of t
CLASS*	
○ sycs	
O TYCS	
	s
Were the objectives of the course clear to you? *	
○ Very Clear	
( 10) Side	
Moderately Clear	DEGREE
Not at all Clear	
	AIROU MINBALE

The lectures were clear & easy to ur	derstand.*	
Strongly Agree	a a	
○ Agree		
O Neutral		
O Disagree		
O Strongly Disagree		1
v .		8 2 2 2
The course was organized in a man  Strongly Agree	ner that helped you understand the under	lying concepts. *
O Agree		
O Neutral		
O Disagree	WHIA DEGREE	
Strongly Disagree	AIROLI NAVI MUMBAI	

How useful to you was this course? *	1 8 3 3
O Very Useful	
Moderately useful	
O Not at all useful	
How much did you learn from this course? *	
A great deal	To a significant
○ A lot	
A moderate amount	и
○ A little	8 -
○ Nothing	1,
Overall, how would you describe the quality of the instruction in this course? *	×
○ Excellent	
○ Very good	
○ Good	
( ) Fair	
O Poor	
What skills or knowledge did you learn or improve? *	
The same of this strong and long tentil of Billhicket	

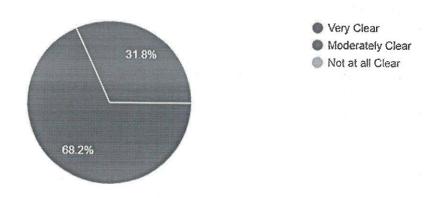


Long answer text

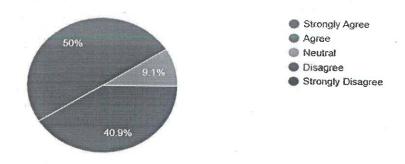
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A.R. MENTA COLLEGE OF MAYOR
DISTRIBUTED SCIENCE
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# Feedback Analysis:

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

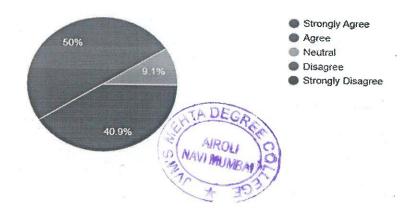


The lectures were clear & easy to understand. 22 responses



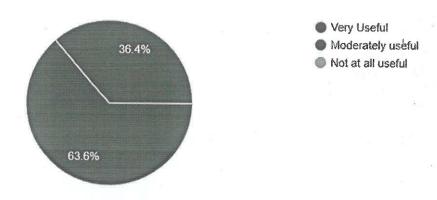
The course was organized in a manner that helped you understand the underlying concepts.

22 responses



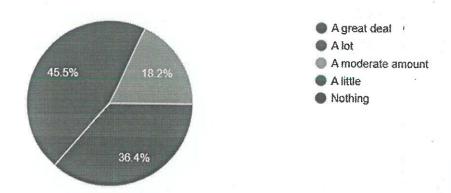
How useful to you was this course?

22 responses

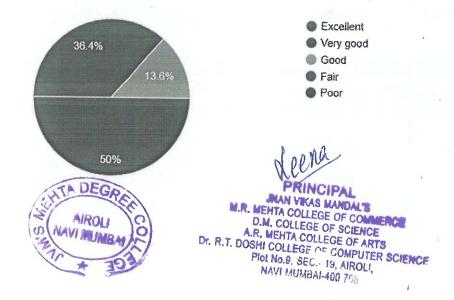


How much did you learn from this course?

22 responses



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





### 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 Bridge Course For Third Year Computer Science

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

Mrs. Janhavi Kshirsagar CS-IT Coordinator Date: 13th June to 18th June 2022 Duration: 30 hours

Dr. Mrs. Leena Sarkar Principal



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## Certificate:



# Jnan Vikas Mandal's Degree College

NAAC Re-Accredited 'A' Grade (CGPA 3.33)
Plot No. 9, Sector-19, Airoli, Navi Mumbai, Maharashtra 400 708

# Certificate

This certificate is awarded to

# <<NAME>>

of <<CLASS>> who has successfully completed Bridge Course organized by Department of Computer Science of JVM's Degree College from 13<sup>th</sup> June 2022 to 18<sup>th</sup> June 2022.

Asst. Rof. Janhavi Kshirsagar

Dr. (Mrs.) Leena Sarkar Principal



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## Report on Bridge Course

The bridge course was conducted for Third Year computer science students from 13/06/2022 to 18/06/2022. The duration of the course was 30 hours. Total 8 subjects were included in the course. The course was conducted by Computer Science department faculty members.

Mrs. Janhavi Kshirsagar

**JAVA** 

Dr. (Mrs.) Sanjivani Nalkar

SE, ST, Android

Mrs. Sarita Sarang

DOT NET, WEB, Android

Ms. Shakuntala Kulkarni

DCN, LINUX

The course benefitted 26 students.

The intention of this course was to bridge the gap between subjects studied at undergraduate level and their applications. 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 to become successful in their careers.

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 papers, 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 DEPT

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Dr.(Mrs)Leena Sarkar

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