

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 NAAC Re-Accredited CGPA-3.33 'A'-Grade

Date: 13/06/2023

NOTICE

All departmental members are hereby informed that the department meeting is arranged on June 13, 2023 at 11:30 a.m.

Agenda

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

Asst. Prof. Janhavi Kshirsagar

Co-ordinator CS-IT DEPT

Dr.B.R.Deshpande

AIRULI

Vice-Principal

Dr.(Mrs)Leena Sarkar

Principal PRINCIPAL JNAN VIKAS MANDAL'S 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.3, SEC. 19, AIROLL NAV. MURRILLAGO 708



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 NAAC Re-Accredited CGPA-3.33 'A'-Grade

Minutes of Meeting

The departmental meeting was held on June 13, 2023, at 11:30 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 21/06/2023 to 30/06/2023 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 Python and Java subject will be taken by Mrs. Janhavi Kshirsagar, Network security and Node.js subject will be taken by Mrs. Sarita Sarang, SE and ST subject will be taken by Dr. Sanjivani Nalkar and Cyber Security and Cyber forensics subject will be taken by Ms. Shakuntala Kulkarni .All the teachers were asked to design a syllabus for 7 hours each and share the syllabus by 21th June 2023.

Exam conduction of bridge course

After completion of lectures of bridge course on June 30,2023 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





Course Syllabus:



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Bridge Course for TYBsc(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 gaining beyond curriculum.



Module	Contents	Number of hours
1	Module: Module: Introduction to Python Programming and Basic Concepts of Java	6 Hours
	Module: Basics of Python Programming Introduction to Python, Data types, PythonTokens, 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. Exception Handling Arrays: Creating Arrays, Indexing and Slicing of Arrays, Basic Array Operations, Arrays Processing, Strings: Creating Strings, Functions of Strings, Working with Strings Programs based on above topics	
	Basic Concepts of Java:	
	Basic programs based on these topics Introduction, Class, Object, Static Keywords, Constructors, this Key Word, Inheritance, super Key Word, Polymorphism Basic programs based on these topics Interfaces, Introduction to predefined packages (java.lang, java.util, java.io, java.sql, java.swing), User Defined Packages, Access specifiers, Exception Handling. Basic programs based on these topics	
=	Assignment	1 Hour



Π	Module: Node JS and Network Security	6 Hours
	Node JS:	
	Node.js (N): Introduction to Node.js. Installing Node.js. The	
	package.json File. The Node.js Event Loop. The I/O Cycle.	
	The Anatomy of a Node is Module. Creating Node Modules.	
	Exploring the Node.js HTTP Module.	
	Network Security:	
	Later de Aire Committee de Theodor Committee de Later de	
	Introduction: Security Trends, The OSI Security	
	Architecture, types of Security Attacks, Security Services, Security Mechanisms, Cyber Security, Types of Cyber	
	Security Weenamshis, Cyber Becurity, Types of Cyber	
	Security	
		1969 186
	Assignment	1 Hour



III Module: Software Testing and Software Engineering Module: Software Engineering and Software Testing Software Engineering:

6 Hours

The Nature of Software, Software Engineering, Software Process, Generic Process Model, The Waterfall Model, Incremental Process Models, Evolutionary Process Models, Component-Based Models. Concurrent The Unified Development, **Process** Phases, Development-Agility, Agile Process. Extreme Programming,

SRS, Characteristics of SRS, Object-oriented design using the UML - Class diagram, Object diagram

Software Testing

Verification and Validation, Introduction to Testing, Testing Principles, Testing Objectives, Test Oracles, Levels of Testing, White-Box Testing/Structural Testing, Functional/Black-Box Testing Test Plan, Test-Case Design

Assignment

1 Hour

IV Module: Cyber Security

Security, aspects of security, need of security, basics of security, 5 elements of security, Computer security, Cyber Security Essentials and Incident Response Management, security threats, Viruses, Malware, Spyware, Steganography, cryptography, Cyber Ethics, Cyber Law and Cyber Policy

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Assignment		1 Hour
Bridge Course Examination		2 Hours



Time Table:



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TYCS Bridge Course Time table 2023-24

Time	21-06-2023	22-06-2023	23-06-2023	26-06-2023	27-06-2023	28-06-2023	30-06-2023
8:40-9:30	NS	SE	CS	Python	ST	CF	Node JS
9:30-10:20	SE	NS	SE	DCN	Java	ST	CF
10:20-11:10	CS	Python	NS	SE	CF	Node IS	ST
11:10-12:00	Pvihon	CS	Python	NS	Node JS	Java	Java

Pythou & Java: Mrs. Janhavi Kshirsagar

SE & ST: Dr. Sanjiyani Nalkar

NS & Node JS: Mrs. Sarita Saraug

CS & CF: Ms. Shakuntala Kulkarni



Exam Paper:

1. 数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据数据	
Bridge Course Evamination (TVD)	20(0.0))
Bridge Course Examination (T.Y.B.	50(U.S)) June -
2023	
Date: 30/06/2023	
Email *	
Valid email	
This form is collecting emails. Change settings	
a contract of the contract of	
Roll No :*	
Short answer text	
Name of the Student : *	
Short answer text	
Communication between a computer and a keyboard involves	transmission.*
Automatic	
Half-duplex	
Full-duplex .	
Simplex	
Through more devices charaction in a connection *	
Three or more devices share a link in connection. *	
Unipoint Same Same Same Same Same Same Same Same	
Multipoint	
Point to point	
	DEGO
Simplex	ADEGREE
12/	AIRULI CO
(a)	NA PARTIES

The number of layers i	in ISO OSI reference model	is		
5				
0 7				
6				
10				
10				
In OSI model when de	ta ie cent from riquina A to	device B, the 5th layer to re	naive date s	nt B is
iii Ooi modei, when da	na is sent from device A to	device b, the off layer to re	ceive data c	ILD IS
Application layer				
	4			
Transport layer				
Link layer	7			
Control (C) Ci				
Session layer				
A is the physi	cal path over which a mess	age travels. *		
Path				
270				
Medium				
Protocol		HTA DEGREE		
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		S MAIRULI O	1	
Routé		(NAVI MIMRAL)		
			4	
		THOE WALL		
		# 39		
What are attributes o	f good software?*			
Software functions	ality			
 Software developr 	nent			
Software maintain	ability			
Sortier and Theretons				
Both A and G				
• 3				

SRS stands for*					
System requirements specification					
			14 may 2		
System respond software					
Software respond system					
Software requirements specification					
Which of the following is not a desirable characterist	stic of SRS docum	ent?*			
Concise					
Ambiguous					
(Verifiable					
vermable					
Testing can be applied to: *					
Requirements					
() Analysis					
O Design					
Code					
Code					
The process to gather the software requirements fro	m client analyze	and docum	ent them is	± ±	
known as :	, i o i o i o i o i o i o i o i o i o i				
Feasibility Study					
reasibility study					
Requirement Gathering					
Requirement Engineering		NY P	DEGRE	10	
9		(X (NA	AIRULI VI MIMBAL	(0)	
System Requirements Specification		19	100	5	

When does Exceptions in Java arises in code sequence? *			
Run Time			
(tutt time			
Compilation Time			
Can Occur Any Time			
0.6			
Before compilation time ,			
Which of these keywords is used to define packages in Java?*			
pkg			
Disc			
Pkg			
package			
package			
Package			
Which of the following is the correct extension of the Python file? *			
python			
pymon			
() .pl			
O .py			
(p			
Which keyword is used for function in Python language? *			
Third to your to function it justining augus			
Function '			
	KAULU	REA	
	Wil MO	14.1	
odef ,	AIRU		
	WAVE OUT	MBAIX	
C Fun	·n	12/	
O Fun	Car *	30	
	-		
Define Control of the			
DOINE .			

To add a new element to a list we use which Python	command?*			
list1.addEnd(5)				
list1.addLast(5)				
nstr.addLast(3)				
list1.append(5)				
list1.add(5)				
Which of the following extension is used to save the	Node is files?*			
Thin of the following extension to does to days in	711000.			
js				
node .				
() ,java				
.txt				
What is Node JS? *				
Node.js is a web server.				
Node.js is a JavaScript based framework/platform	built on Google Chro	me's JavaSc	ript V8 Engine.	
Node.js is a java based framework.				
C. Name of the allows				
None of the above.				
Which will not harm computer resources?*				
Firewall		DECK		
New Year	(3	TAULGR	ER	
Virus	(¥)	NAVI MININ	136	
○ Trojan horse	/c	Mr.	75	
		JL # 3	0/	
None of the above				

Which of the following	g is considered a	an element of cy	ber security?			
Network security						
4						
Operational securi	ty					
Application securi	ty					
All of the above						
1		*				
Identify the malware	which does not r	eplicate or clon	e through an infec	ction?		
Troipp						
Trojan						
Worm						
WOHIL						
Virus						
VIIUS						
None of these						
Note of these						
			J			
Software, such as vi	ruses, worms an	d Trojan norses	, that has a mailel	ous intent is	known as:	
spyware		-				
adware		×				
		7				
spann						
malware						
151011101						
				*		
Which software is m	nainty used to ne	p users detect v	viruses and avoid	thern?		
Adware						
Antivirus						
				A	VEO	
Malware				RIAL	CGREA	
Antiware				E (AI	RULI CO	
7 111117				a war	(IABAI)	
				S. WALL	MIMBAI) O	

Malware stands for? * ,					
warrare orange for:					
malicious software					
(A)					
multipurpose software					
multifunctioning software					
The state of the s					
None of these					
Which of the following is considered as the	uncolinited or	nmmaraial amai	12 *		
willen of the following is considered as the	unsoncheu co	Jiminer Clar Ciliai	1:		
Virus				144	
Malware · · · · · · · · · · · · · · · · · · ·					
0					
Spam					
All the above					
All the above					
		History and the			
			2.7		4
In which of the following, a person is con-	stantly followe	ed/chased by an	other perso	n or group	
of several peoples?					
Phishing					
Stalking	a 0 0	177 42 1970			
Staiking					
Bulling ,					
2 monthly					
O Identity theft					





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NAAC Re-Accredited CGPA-3.33 'A'-Grade

List of Participants

Roll No :	Name of the Student :	Score
1723	Ketna Mhatre	48 / 50
1732	Jaswant Patel	48 / 50
1701	Kumud Singh	.48 / 50
1745	Sujal lodha	48 / 50
	Vinita mandal	48 / 50
1710	Smita Gavit	,48 / 50
1740	Khushboo Singh	48 / 50
1705	Anushka Chavan	48 / 50
1725	Aryan Mahendra Mokashi	44 / 50
1707	Pranil dhamal	44 / 50
1724	Mhetre Ganesh Vishwanath	50 / 50
	Sapna Kapil Kewat	46 / 50
1714	Sahil Gupta	46 / 50
1714	Sahil Gupta	44 / 50
1746	Suraj Ugrasen Jaiswar	42 / 50
1741	Amit udaybhan thakur	46 / 50
1729	Shivani Pandey	48 / 50
1734	Ankit Rai	48 / 50
1709	RAVISHANKAR GAUTAM	48 / 50
1716	Aniruddh Suhas hatkar	48 / 50
1726	Sakshi Naik	50 / 50
1717	Pranay Shankar Jadhav	50 / 50
1717	Pranay Shankar Jadhav	50 / 50
1713	Rahul Gupta	44 / 50
1702	Amisha Achari	44 / 50
1715	Vinit Gupta	42 / 50



Feedback Form:



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

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BRIDGE COURSE FEEDBACK	FORM		
Form description			
Email *			
Valid email			
This form is collecting emails. Change settings			
This form is concerning entails. Sharings			
NAME OF THE STUDENT*			
WAME OF THE STODENT.			
Short answer text			
ROLL NUMBER*			
•			
Short answer text			
CLASS*			
CCAGS			
SYCS			
TYCS			
			TERR
			CAI.
		SUMAN	mul S
Were the objectives of the course clear to you?.*		18/100	A SALVEN
		1317	# 393
Very Clear		1000000	
Moderately Clear			
Not at all Clear			

Strongly Agree				
Agree				
Neutral				
Disagree				
Out of Signature				
Strongly Disagree				
The course was organized in a manner that helpe	ed you understa	nd the unde	rlying cor	cepts.*
	ed you understa	nd the unde	erlying cor	rcepts.*
The course was organized in a manner that helpe Strongly Agree	ed you understa	nd the unde	erlying cor	ncepts.*
Strongly Agree	ed you understa	nd the unde	erlying cor	ncepts.*
	ed you understa	nd the unde	erlying con	ncepts.*
Strongly Agree Agree	ed you understa	nd the unde	rlying cor	ncepts.*
Strongly Agree	ed you understa	nd the unde	rlying cor	ncepts.*
Strongly Agree Agree Neutral	ed you understa	nd the unde	erlying cor	ncepts.*
Strongly Agree Agree	ed you understa	nd the unde	erlying cor	ncepts.*
Strongly Agree Agree Neutral	ed you understa	nd the unde	rlying cor	ncepts.*

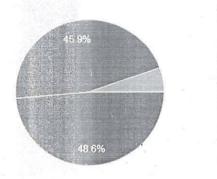


How useful to you was this course? *			
Very Useful			
Moderately useful			
Not at all useful			
How much did you learn from this course? *			
A great deal			
A łot			
A moderate amount			
A little			
Nothing			
Overall, how would you describe the quality of the inst	truction in this	course? *	
Very good .			
Good			
Fair			
Poor			
What skills or knowledge did you learn or improve? *			og ge
Long answer text		Will I	MRULI
		121NAV	I -m olibral/

Feedback Analysis:

Were the objectives of the course clear to you?

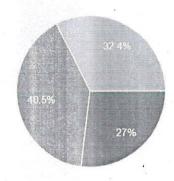
37 responses



- Very Clear
- Moderately Clear
- Not at all Clear

The lectures were clear & easy to understand.

37 responses

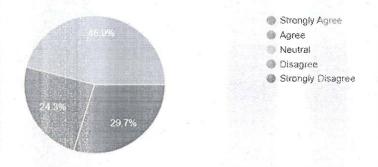


- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree



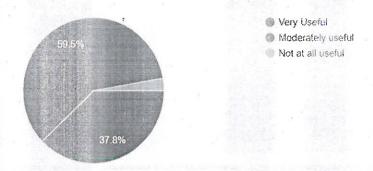
The course was organized in a manner that helped you understand the underlying concepts.

37 responses



How useful to you was this course?

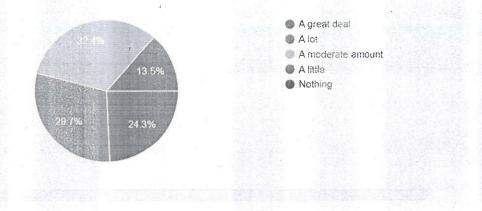
37 responses





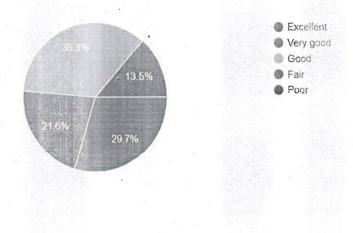
How much did you learn from this course?

37 responses



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

37 responses





Flyer:

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

Date: 21th June 2023 To 30th June 2023

Duration: 30 Hours

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

> Mrs. Janhavi Kshirsagar CS-IT Coordinator and Course Convener

Dr.B.R.Deshpande Vice Principal

Dr.(Mrs.) Leena Sarkar Principal and Chairperson



Certificate:



JNAN VIKAS MANDAL'S

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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
NAAC Re-Accredited CGPA-3.33 'A'-Grade

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 21st June 2023 to 30th June 2023.

Asst. Prof. Janhavi Kshirsagar

Dr.B.R.Deshpande

Dr. (Mrs.) Leena Sarkar

CS-IT Coordinator

Vice Principal

Principal

PRINCIPAL
JNAN VIKAS MANDAL'S
M.R. MEHTA COLLEGE OF COMMERCE
D.M. COLLEGE OF SCIENCE
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Report on Bridge Course

The bridge course was conducted for Third Year computer science students from 21/06/2023 to 30/06/2023. 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 and Python

Dr. (Mrs.) Sanjivani Nalkar

Software Engineering, Software Testing

Mrs. Sarita Sarang

Network Security Node.Js

Ms. Shakuntala Kulkarni

Cyber Security, Cyber Forensics

The course benefitted 26 students. Remaining students were absent due to Late admission and some medical reason. 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

Dr.B.R.Deshpande

Coordinator CS-IT DEPT

Vice Principal

Dr.(Mrs)Leena Sarkar

Principal VIKAS MANDAL'S 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,

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