



JNAN VIKAS MANDAL'S

Mohanlal Raichand Mehta College of Commerce

Diwali Maa College of Science

Amritlal Raichand Mehta College of Arts

Dr. R.T. Doshi College of Computer Science

NAAC Re-Accredited Grade 'A+' (CGPA : 3.31) (3rd Cycle)

Date: 15/12/2024

NOTICE

All departmental members are hereby informed that the department Meeting is arranged on December 15th, 2024 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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Date: 15/12/2024

NOTICE (Students)

This is to inform all the students that the Bridge Course is schedule from 1st January 2024 to 8th January 2024 as per timetable.

Agenda

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

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Minutes of Meeting

The departmental meeting was held on December 15th, 2024, 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 01/01/2024 to 08/01/2024 Total 5 subjects are included in the Bridge Course. And it was decided that it should be for 30 hours.

❖ Subject Distribution

It was decided that Introduction to Cloud Computing subject will be taken by Mrs. Janhavi Kshirsagar, Basics of IR subject will be taken by Mrs. Sarita Sarang, Basic of Ethical Hacking subject will be taken by Dr. Sanjivani Nalkar and Introduction to Security subject will be taken by Ms. Shakuntala Kulkarni and Fundamentals of Data Science subject is taken by Mrs. Vinaya Mangnale. All the teachers were asked to design a syllabus for 5 hours each and share the syllabus by 6th December 2022.

❖ Exam conduction of bridge course

After completion of lectures of bridge course on Monday January 8th, 2024 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 5 pm.

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



Following members were present:

Signature

Asst. Prof. Janhavi Kshirsagar – CS/IT Co-ordinator

Asst. Prof Sarita Sarang

Dr. Sanjivani Nalkar

Asst. Prof Shakuntala Kulkarni

Asst.Prof Vinaya Mangnale

Handwritten signatures in blue ink, corresponding to the names listed on the left. The signatures are: a stylized 'JK' for Janhavi Kshirsagar, 'SS' for Sarita Sarang, 'SN' for Sanjivani Nalkar, 'SK' for Shakuntala Kulkarni, and 'VM' for Vinaya Mangnale.





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Course Syllabus **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 at 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
I	Module : Basics of Information Retrieval Introduction to Information Retrieval, Data Retrieval vs Information Retrieval, Problems with Information Retrieval, Applications of IR- Integrated Solution, Distributed IR, Semantic Matching, Interface and Browsing, Routing and Filtering, Effective Retrieval, Multimedia, Information Extraction	4 Lectures
	Case Study / Assignment and Test	2 Lectures
2	Module : Basics of Ethical Hacking Crisis in hacking, Computer Crime cases, Why security is required, Why do hackers attack, Types of hackers, Modes of hackers attacks, Types of attacks like Spoofing, Email Spoofing, Web Spoofing, Session Hijacking, Denial of Service (DOS) etc	4 Lectures
	Case Study / Assignment and Test	2 Lectures
3	Module: Introduction to Security	4 Lectures



	Security, aspects of security, need of security, basics of security, 5 elements of security, Computer security, security threats, Viruses, Malware, Spyware	
	Case Study / Assignment and Test	2 Lectures
4	<p>Fundamentals of Data Science:</p> <p>Journey from Data to Data Science: DBMS, DW, Data Mining, Business Intelligence, DATA science Basics.</p> <p>How to sound like a Data Scientist ?</p> <p>What is DS?</p> <p>Why DS?</p> <p>Types of</p> <p>DATA :</p> <p>DATA Cleaning , Data Transformation</p>	4 Lectures
	Case Study / Assignment and Test	2 Lectures
5	<p>Introduction to Cloud Computing :</p> <p>Introduction to Cloud Computing, Characteristics and benefits of Cloud</p> <p>Computing, Advantages and Disadvantages of Cloud Computing.</p>	4 Lectures



	<p>Different Cloud Platforms and Their Processing, AWS, Microsoft Azure, Google app Engine, Hadoop, IBM Cloud etc.</p> <p>Reference Model, Types of Clouds, IAAS, PAAS, SAAS, Virtualization</p> <p>Different real time examples.</p>	
	Case Study / Assignment and Test	2 Lectures



Exam Paper :

Bridge Course Examination T.Y.B.Sc(C.S)January 2024

Marks : 25

sarita.sarang@jnanvikasmandal.com Switch account



* Indicates required question

Email *

Your email

Name of the Students : *

Your answer

Roll No. *

Your answer

Performing a shoulder surfing in order to check other's password is _____ ethical practice. *

- a good
- not so good
- very good social engineering practice
- a bad

_____ has now evolved to be one of the most popular automated tools for unethical hacking. *

- Automated apps
- Database software
- Malware
- Worms



Leaking your company data to the outside network without prior permission of senior authority * is a crime.

- True
- False

_____ is the technique used in business organizations and firms to protect IT assets. *

- Ethical hacking
- Unethical hacking
- Fixing bugs
- Internal data-breach

An ethical hacker must ensure that proprietary information of the firm does not get leaked. *

- True
- False

_____ is the outcome of extraction and processing activities carried out on data. *

- Knowledge
- Information
- Data
- Raw Data



ETL process consists of Extract, _____ and Load *

- Translate
- Track
- Transmit
- Transform

It is necessary to recognize and accurately spell out the problem in _____ phase in the Cycle *
of a business intelligence analysis

- Analysis
- Insight
- Decision
- Evaluation

Which of the following is the process of identifying and removing (or correcting) inaccurate *
records from a dataset?

- Data Cleaning
- Data Normalization
- Data Analysis
- Data Transformation

_____ is a process of removing noise from the data. *

- Smoothing
- Aggregating
- Scripting
- Polling



Cloud Computing is a paradigm of _____ to provide the customers on-demand, utility- based computing service. *

- Distributed computing
- Undistributed Computing
- Centralized Computing
- Central Computing

The architecture used to build the most of the cloud architecture is _____ *

- skeleton
- grid
- linear
- template

Which of the architectural layer is used as front end in cloud Computing.? *

- Cloud
- Operating System
- Soft
- Client

Which of the following can be identified as cloud? *

- Web Applications
- Intranet
- Hadoop
- Standalone Application

Which of the following is Cloud Platform by Amazon? *

- Azure
- AWS
- Cloudera
- Hyper-V



In which of the following, a person is constantly followed/chased by another person or group of several peoples? *

- Phishing
- Bulling
- Stalking
- Identity theft

Which of the following usually observe each activity on the internet of the victim, gather all information in the background, and send it to someone else? *

- Malware
- Spyware
- Adware
- All of the above

It can be a software program or a hardware device that filters all data packets coming through the internet, a network, etc. it is known as the _____: *

- Antivirus
- Firewall
- Cookies
- Malware

In system hacking, which of the following is the most crucial activity? *

- Information gathering
- Covering tracks
- Cracking passwords
- None of the above

Which of the following can be considered as the elements of cyber security? *

- Application Security
- Operational Security
- Network Security
- All of the above



Information retrieval is querying of _____ textual data. *

- Structured
- Unstructured
- Formatted
- Unformatted

Data by itself is not useful unless *

- It is massive
- It is processed to obtain information
- It is collected from diverse sources
- It is properly stated

Goal of IR is to find documents _____ to an information need from a large document set. *

- Applicable
- Relevant
- Knowledgeable
- Match

IR Stands for _____.*

- Information Retrieval
- Information Retired
- Inform Retrieval
- Information Ready

Information is composed of _____ *

- Text (including numeric and date data)
- Images,
- Audio & Video
- All of the above



Marksheet:

Roll No.	Name of the Students :	Score
1839	Arpit Tiwari	22 / 25
1802	amishaachari@gmail.com	8 / 25
1814	Pranay shankar jadhav	20 / 25
1816	YASH RAMESH KADAM	15 / 25
1805	Rishabh Dubey	21 / 25
1837	Khushboo singh	22 / 25
1822	Ganesh Vishwanath Mhetre	22 / 25
1804	Pranil Dhamal	20 / 25
1811	Vinit Gupta	23 / 25
1821	Ketna Mhatre	16 / 25
1819	SUJAL Lodha	22 / 25
1838	Amit Thakur	21 / 25
1840	Anurag Verma	18 / 25
1829	Jaswant Patel	15 / 25
1834	Walid Shaikh	23 / 25
1827	Shivani Pandey	22 / 25
1806	RAVISHANKAR GAUTAM	16 / 25
1832	Ankit Rai	20 / 25
1813	Aniruddh suhas hatkar	21 / 25
1824	Sakshi Naik	15 / 25
1815	Suraj Ugrasen Jaiswar	21 / 25
1830	Ankit prajapati	20 / 25
1810	Sahil Harishchandra Gupta	19 / 25
1828	Dharmesh Patel	7 / 25
1807	Smita Gavit	22 / 25
1808	Sapna	21 / 25
1835	Atharva Santosh Shinde	18 / 25
1809	Rahul kailash Gupta	4 / 25
1833	ANAMIKA	19 / 25
1823	Aryan Mahendra Mokashi	20 / 25
1841	Aryan Wagmare	16 / 25
1826	Ravi pal	15 / 25



Feedback Form :

T.Y.BSc(C.S) Bridge Course Feedback Form Term 2 2023-24

B I U ↻ ✕

Form description

Email *

Valid email

This form is collecting emails. [Change settings](#)

NAME OF THE STUDENT *

Short answer text

Were the objectives of the course clear to you? *

- Very Clear
- Moderately Clear
- Not at all Clear

The lectures were clear & easy to understand. *

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



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

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

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 lot
- A moderate amount
- A little
- Nothing

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

- Excellent
- Very good
- Good
- Fair
- Poor

What skills or knowledge did you learn or improve? *

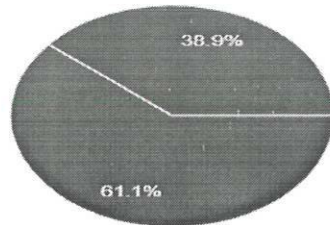
Long answer text



Feedback Analysis :

Were the objectives of the course clear to you?

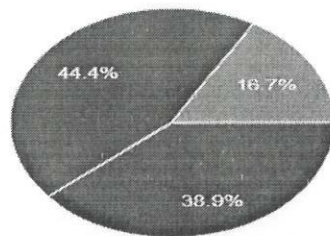
18 responses



- Very Clear
- Moderately Clear
- Not at all Clear

The lectures were clear & easy to understand.

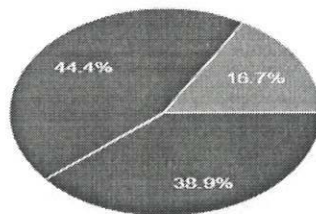
18 responses



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

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

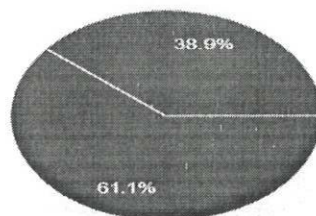
18 responses



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

How useful to you was this course?

18 responses

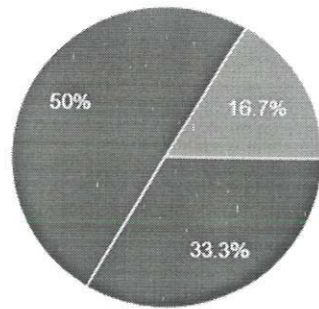


- Very Useful
- Moderately useful
- Not at all useful



How much did you learn from this course?

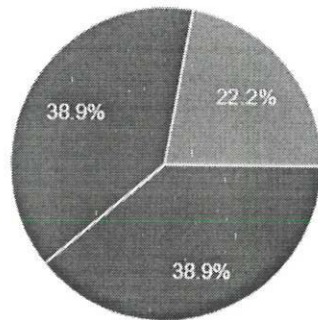
18 responses



- A great deal
- A lot
- A moderate amount
- A little
- Nothing

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

18 responses



- Excellent
- Very good
- Good
- Fair
- Poor



Flyer :



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**Department of Computer Science
Organize
Bridge Course For Term – II
Third Year Computer Science**

Date : 1st Jan 2024 to 8th Jan 2024

Duration : 30 Hours

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

Mrs. Janhavi Kshirsagar
CS-IT Coordinator and Course Convener

Dr. B.R. Deshpande
I/C Principal



Certificate :



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CERTIFICATE

This certificate is awarded to

<<NAME>>

of T.Y.B.Sc (C.S) who has successfully completed Bridge Course
organized by Department of Computer Science of JVM's Degree College
from 1st January 2024 to 8th January 2024

Asst. Prof. Janhavi Kshirsagar
CS-IT Coordinator

Dr.B.R Deshpande
I/C Principal





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Report on Bridge Course

The bridge course was conducted for Third Year computer science students from 01/01/2024 to 08/01/2024. The duration of the course was 30 hours. Total 5 subjects were included in the course. The course was conducted by Computer Science department faculty members.

Mrs. Janhavi Kshirsagar	Introduction to Cloud Computing
Dr. (Mrs.) Sanjivani Nalkar	Basic of Ethical Hacking
Mrs. Sarita Sarang	Basic of IR
Ms. Shakuntala Kulkarni	Introduction to Security
Mrs. Vinaya Mangnale	Fundamentals of Data Science.

The course benefitted 32 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 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



Dr. B.R. Deshpande

I/C Principal
I/c. PRINCIPAL
JNAN VIKAS MANDAL'S
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D.M. MEHTA COLLEGE OF SCIENCE
A.R. MEHTA COLLEGE OF ARTS
Dr. R.T. DOSHI COLLEGE OF COMPUTER SCIENCE
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NAVI MUMBAI-400 708.