



**JNAN VIKAS MANDAL'S**  
Mohanal 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: 11/06/2022

**NOTICE**

All departmental members are hereby informed that the department meeting is arranged for conduction of TYIT bridge course on June 12, 2022 at 10:30 a.m. in the IT lab.

**Agenda**

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

Asst. Prof. Archana Sanap  
Incharge- IT DEPT

Asst. Prof. Janhavi Kshirsagar  
Coordinator CS-IT DEPT

Dr. B. R. Deshpande  
Vice Principal

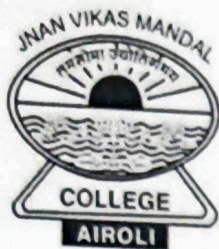


Dr. (Mrs) Leena Sarkar

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.9, SEC.- 19, AIROLI,  
NAVI MUMBAI





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### Minutes of Meeting

The online departmental meeting was held on June 12, 2022, at 10:30 a.m. in the IT lab.

Following matters were discussed and finalized as per the agenda.

❖ **Conduction of Bridge course for TYTT students**

It was decided that the Bridge Course should be conducted from 14<sup>th</sup> June 2021 to 23<sup>rd</sup> June 2021. A total of 5 subjects are included in the Bridge Course. And it was decided that it should be 40 hours.

❖ **Subject Distribution**

It was decided that Advanced DBMS subject will be taken by Mrs. Archana Sanap, Java Programming subject will be taken by Dr. Sunitha Joshi, Web/.NET subject will be taken by Ashish Chavan, Computer Network and Embedded System subjects will be taken by Mrs. Sharayu Kadam. All the teachers were asked to design the syllabus for 8 hours each.

❖ **Work Distribution**

**Subjects are distributed among following teachers**

Sr No.	Teacher Name	Subject Name
1	Mrs. Archana Sanap	Advance DBMS
2	Dr. Sunitha Joshi	Java Programming
3	Mr. Ashish Chavan	Web/.NET
4	Mrs. Sharayu Kadam	Computer Network
5	Mrs. Sharayu Kadam	Embedded system





**Adjournment**

Meeting was adjourned at 11:30 a.m.

**Following members were present:**

- Dr.(Mrs.) Leena Sarkar (Principal)
- Dr. B. R. Deshpande (Vice- Principal)
- Asst. Prof. Janhvi Kshirsagar (CS-IT Coordinator)
- Asst. Prof. Archana Sanap (IT- Incharge)
- Asst. Prof. Sharayu Kadam.
- Asst. Prof. Sunitha Joshi.
- Asst. Prof. Mustufa Nullwala.
- Asst. Prof. Ashish Chavan.

**Signature**

*Leena*  
*[Signature]*  
*JK*  
*Archana*  
*Sharayu*





Syllabus Bridge Course for TYBsc(IT)

Duration: - 40 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 curriculum.

Module	Contents	Number of hours
I	<p><b>Module: Embedded Systems</b></p> <p><b>Introduction:</b> Embedded Systems and general-purpose computer systems, history, classifications.</p> <p><b>Core of Embedded Systems:</b> Microprocessors and microcontrollers, RISC and CISC controllers, Big-endian and Little-endian processors.</p> <p><b>Characteristics and quality attributes of embedded systems:</b> Characteristics, Operational and nonoperational quality attributes.</p> <p><b>Embedded Hardware:</b> Memory map, i/o map, interrupt map, processor family, external peripherals, memory – RAM, ROM, types of RAM and ROM, memory testing, CRC, Flash memory.</p>	7 hours





	Case study/Assignment and test	1 hour
II	<p><b>Module: Computer Network</b></p> <p><b>Introduction to data communications and networking:</b> Fundamental concepts, Data communications, Protocol, standards, standard organizations</p> <p><b>Network Models:</b> The OSI reference model, TCP/IP model</p> <p><b>Media and Transmission modes</b></p> <p><b>Network topologies:</b> Mesh, star, tree, ring, bus, hybrid.</p> <p><b>Introduction to Physical layer:</b> Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance.</p>	7 hours
	Case study/Assignment and test	1 hour
III	<p><b>Module: Web/.NET</b></p> <p><b>Evolution of Web Development:</b></p> <ul style="list-style-type: none"> <li>● The Evolution of Web Development</li> <li>● Introduction to Web Programming</li> <li>● Basic HTML</li> <li>● CSS</li> <li>● Website development overview</li> </ul> <p><b>Introduction to ASP.NET:</b></p> <ul style="list-style-type: none"> <li>● ASP.NET</li> <li>● Server-Side and Client-Side Programming</li> <li>● .Net framework</li> </ul> <p><b>Introduction to C# Language:</b></p> <ul style="list-style-type: none"> <li>● Programming Features Of C#</li> <li>● Constants, Variables, Keywords</li> <li>● C# Datatypes</li> <li>● Operators</li> <li>● Type Casting</li> </ul> <p><b>Introduction to Visual Studio:</b></p> <ul style="list-style-type: none"> <li>● Introduction to IDE</li> <li>● .Net Editions</li> </ul>	7 hours





	<ul style="list-style-type: none"> <li>● Use Interface</li> <li>● Toolbox</li> <li>● How to Create and Run Project</li> <li>● Features of VS</li> </ul>	
	Case study/Assignment and test	1 hour
IV	<p><b>Module: Advanced DBMS</b></p> <p><b>Advanced DBMS:</b> Comparison between different databases: Significance of Databases, Database System Applications, Advantages and Disadvantages of different Database Management systems, Comparison between DBMS, RDBMS</p> <p><b>Normalization:</b> Functional Dependency, Anomalies in a Database, The normalization process: Conversion to first normal form, Conversion to second normal form, Conversion to third normal form, The boyce-code normal form(BCNF), Fourth Normal form and fifth normal form, normalization and database design, Denormalization.</p>	7 hours
	Case study/Assignment and test	1 hour
V	<p><b>Module: Advanced Java</b></p> <p><b>Swing:</b> Need for swing components, Difference between AWT and swing, Components hierarchy, Panes, Swing components: JLabel, JTextField and JPasswordField, JTextAreas, JButton, JCheckBox, JRadioButton, JComboBox and JList</p> <p><b>JDBC:</b> Introduction, JDBC Architecture, Types of Drivers, Statement, ResultSet, Read Only ResultSet, Updatable ResultSet, Forward Only ResultSet, Scrollable ResultSet, PreparedStatement.</p>	7 hours
	Case study/Assignment and test	1 hour





# Timetable

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

**Class :T.Y.B.Sc. (I.T.)**                      **Bridge Course Time Table**                      **Academic year: 2022-2023**

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Date	13/06/2022	14/06/2022	15/06/2022	16/06/2022	17/06/2022	18/06/2022
9:00-10:00	ES (Sharayu)	Adv.DBMS (Archana)	JAVA (Sunitha)	Web/NET (Ashish)	CN (Sharayu)	JAVA (Sunitha)
10:00-11:00	JAVA (Sunitha)	CN (Sharayu)	ES (Sharayu)	CN (Sharayu)	JAVA (Sunitha)	Adv.DBMS (Archana)
11:20-12:20	Web/NET (Ashish)	Web/NET (Ashish)	Adv.DBMS (Archana)	Adv.DBMS (Archana)	Web/NET (Ashish)	ES (Sharayu)
12:20-1:20	Adv.DBMS (Archana)	JAVA (Sunitha)	CN (Sharayu)	ES (Sharayu)	ES (Sharayu)	Web/NET (Ashish)
1:20-2:20	CN (Sharayu)	ES (Sharayu)	Web/NET (Ashish)	JAVA (Sunitha)	Adv.DBMS (Archana)	CN (Sharayu)

ES: Mrs.Sharayu Kadam      CN: Mrs.Sharayu Kadam      Adv.DBMS: Mrs. Archana  
 Sanap      Web/NET: Mr.Ashish Chavan      Java: Mrs.Sunitha Joshi

*(Signature)*  
**In-charge of IT dept**

*(Signature)*  
**Coordinator of CS/IT dept**

**Principal**

## Exam Paper

**PRINCIPAL**  
**JNAN VIKAS MANDAL'S**  
**M.R. MEHTA COLLEGE OF COMMERCE**  
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 Plot No.9, SEC.- 19, AIROLI,  
 NAVI MUMBAI-400 705

Email * Your email
Mobile number * Your answer
Class * Your answer





Name \*

Your answer

Roll number \*

Your answer

Next

Clear form

Never submit passwords through Google Forms

Advanced DBMS

The method of file organization in which data records in a file are arranged in a specified order according to key field is known as the \_\_\_\_\_ \* 2 points

- Sequential access method
- Queuing method
- Predetermined method
- Direct access method

A collection of interrelated records is called a \_\_\_\_\_ \* 2 points

- Database
- Spreadsheet
- Management information system
- Text file

The database design prevents some data from being stored due to \_\_\_\_\_ \* 2 points

- Deletion anomalies
- Insertion anomalies
- Update anomalies
- Selection anomalies

If one attribute is determinant of second, which in turn is determinant of third, then the relation cannot be: \* 2 points

- Well-structured
- 1NF
- 2NF
- 3NF

A functional dependency is a relationship between or among \_\_\_\_\_ \* 2 points

- Entities
- Rows
- Attributes
- Tables





## Participant List

Sr No	Name
1	Ribika Autade
2	SHRIRAJ D CHAUGHULE
3	SHUBHANGI SHIVAJI DATE
4	DESHMUKH ADHIRAJ ADHIK
5	Bhavesk Prakash Gangurde
6	Rushikesh Anil Gawade
7	Prashant Vithal Godhe
8	Nikita kewat
9	Anil kumawat
10	Shreya Dayanand Lad
11	Ashish mamgai
12	Vaibhav mishra
13	Sakshi Sachin Panchal
14	Anveshan John Parichha
15	Shruti pathak
16	Hrishikesh Patil
17	Raj Sandeep pawar
18	Aditya Prajapati
19	Md sameer raean
20	Siddhant Raut
21	Bhumika Salvi
22	Tanvi sunil sangle





23	Shaikh amir akhar firoz
24	SHINARE ANIKET SURESH
25	VIJAY SHIPTE
26	Prathmesh harischandra Taware
27	Isha Torse
28	Gaurav Upreti
29	Arun varma
30	Anjali Dilram Yadav
31	Neeraj yadav
32	Rahul yadav
33	Reeta Dayaram yadav
34	Sachin Yadav
35	Saurabh Vishun Yadav
36	Jitesh yadav

### Flyer


**JNAN VIKAS MANDAL'S DEGREE COLLEGE**  
 NAAC RE-CREDITED 'A' GRADE (CGPA 3.33)  
 Plot No-9, Sector-19, Airoli, Navi Mumbai.

**DEPARTMENT OF  
 INFORMATION TECHNOLOGY  
 ORGANIZES  
 BRIDGE COURSE FOR TYIT**




**Dr. Sunitha Joshi**  
**Mr. Ashish Chavan**  
**Mrs. Sharayu Kadam**

Date-13<sup>th</sup> June to 18<sup>th</sup> June 2022  
 Duration-30 Hours  
 Mrs. Archana Sanap  
 IT-Incharge  
 Mrs. Jhanvi Kahirsagar  
 CS-IT Coordinator  
 Dr. (Mrs.) Leena Sarkar  
 Principal





### 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>>

who has successfully completed Bridge Course organized by  
Department of Computer Science and Information Technology of  
JVM's Degree College.

*Archana Sanap*

Asst. Prof. Archana Sanap  
IT- Incharge

*Janhavi Kshirsagar*

Asst. Prof. Janhavi Kshirsagar  
Convenor

*Leena Sarkar*

Dr. (Mrs.) Leena Sarkar  
Principal







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### REPORT

The bridge course was conducted for the students of information technology of third year. The course commenced from 13th June 2022. The course ended on 18th June 2022. Total five subjects were included in the bridge course with the aim of making the concepts more familiar. The total duration of course was 40 hours. Following faculties conducted the lectures

Sr No.	Teacher Name	Subject Name
1	Mrs. Archana Sanap	Advance DBMS
2	Dr. Sunitha Joshi	Java Programming
3	Mr. Ashish Chavan	Web/.NET
4	Mrs. Sharayu Kadam	Computer Network
5	Mrs. Sharayu Kadam	Embedded system

Assignments were given to students by respective teachers. Course exam was conducted on 18th June 2022 from 2pm to 3pm. 5 questions from each subject were included in the online exam. Total 50 marks exam was conducted by Mrs. Rajshree Pisal.

Results of the bridge course were released via email to the students who attempted the exam and submitted the assignments. 36 students benefited.

Asst. Prof. Archana Sanap

Incharge- IT DEPT

Dr. B. R. Deshpande

Vice Principal



Asst. Prof. Janhavi Kshirsagar

Coordinator CS-IT DEPT

Dr. (Mrs) Leena Sarkar

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