

JNAN VIKAS MANDAL'S

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 for conduction of bridge course on June 14, 2023 at 10:30 a.m. in IT lab.

**Agenda**

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

Asst. Prof. Archana Sanap  
Incharge- IT DEPT

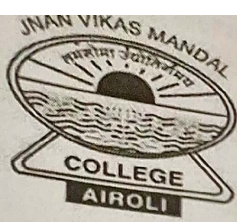
Asst. Prof. Janhavi Kshirsagar  
Coordinator CS-IT DEPT

Dr. B.R. Deshpande  
Vice Principal

Dr. (Mrs) Leena Sarkar  
Principal







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Minutes of Meeting

The online departmental meeting was held on June 14, 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 SYTT students**

It was decided that the Bridge Course should be conducted from 21<sup>th</sup> June 2022 to 30<sup>th</sup> June 2022. 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 Computer Network subject will be taken by Mrs. Archana Sanap, Operating System subject will be taken by Mrs. Sharayu Kadam, Digital Electronics subject will be taken by Rajshree Pisal, Imperative Programming/Data Structure subject will be taken by Mrs. Bhagyashree Kulkarni and Maths subject will be taken by Mr. Pintoo Jaiswar All the teachers were asked to design the syllabus for 8 hours each by 14<sup>th</sup> June 2022.

❖ **Work Distribution**

**Subjects are distributed among following teachers**

| Sr No. | Teacher Name             | Subject Name                          |
|--------|--------------------------|---------------------------------------|
| 1      | Mrs.Archana Sanap        | Computer Network                      |
| 2      | Mrs. Sharayu Kadam       | Operating system                      |
| 3      | Mrs.Rajshree Pisal       | Digital Electronics                   |
| 4      | Mrs.Bhagyashree Kulkarni | Imperative Programming/Data structure |
| 5      | Mr. Pintoo Jaiswar       | Maths                                 |

**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. Janhavi Kshirsagar

Asst. Prof. Archana Sanap

Asst. Prof Sharayu Kadam.

Asst. Prof Rajshree Pisal.

Asst. Prof. Bhagyashree Kulkarni

Signature

*Leena*

*JK*

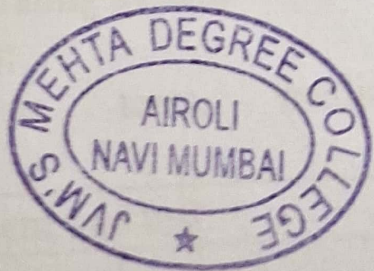
*Sharayu*

*Rajshree*

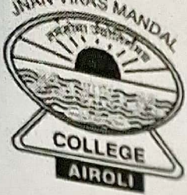
*BK*

To impart the knowledge and skills required to take on bigger challenges  
To demonstrate a breadth and depth of knowledge in the disciplines of computer science  
To understand the essence of knowledge gained beyond curriculum

| Module | Contents   | Number of hours |
|--------|--|-----------------|
|        | Module: Applied mathematics<br>Definition and basic of matrix, types of matrix<br>complex numbers, limits  | 5 hours         |
|        | Case study/Assignment and test   | 1 hour          |
|        | Module: Operating system<br>Introduction of operating system:<br>Definition, reasons of operating system<br>Functions of operating system:<br>Memory Management, Process Management,<br>Device management and file management.<br>States of operating system | 5 hours         |







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Bridge Course for SYBsc(IT) 2023-24  
Term-I

Duration: - 30 hours

**OBJECTIVES: -**

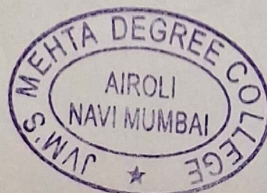
- 1) To bridge the gap between subjects studied at pre-university level and subjects they would be studying in graduation.
- 2) To provide adequate foundation in core subjects, limited to moderate level so that students do not face any difficulty when the classes commence.
- 3) To act as a buffer for 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 |
|--------|---|-----------------|
| I      | <b>Module: Applied mathematics</b><br>Definition and basics of matrix ,types of matrix ,complex numbers basics  | 5 hours         |
|        | Case study/Assignment and test  | 1 hour          |
| II     | <b>Module: Operating system</b><br><b>Introduction of operating system:</b><br>Definition, process of operating system<br><b>Functions of operating system:</b><br>Memory Management, Process Management, Device management and file management.<br><b>States of operating system:</b><br>Process states of operating system<br><b>Types of schedulers:</b><br>Long term, short term, medium term, multiprogramming | 5 hours         |
|        | Case study/Assignment and test  | 1 hour          |
| III    | <b>Module: Digital Electronics</b>  | 5 hours         |

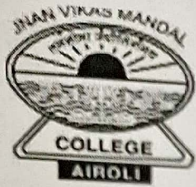




|    |  |         |
|----|--|---------|
|    | <p><b>Number system</b> – Analog, Digital, binary, octal, hexadecimal and its conversion.</p> <p><b>Binary Arithmetic:</b> Binary addition, Binary subtraction.</p> <p><b>Negative number representation:</b> Subtraction using 1's complement and 2's complement.</p>   |         |
|    | Case study/Assignment and test   | 1 hour  |
| IV | <p><b>Module: Imperative Programming/Data structure</b></p> <p><b>Introduction:</b> Types of Programming languages, History, features and application. Simple program logic, program development cycle, flowchart symbols, desirable program characteristics.</p> <p><b>Fundamentals:</b> Structure of a program. Compilation and Execution of a Program, Character Set, identifiers and keywords, data types, constants, variables and arrays, declarations, expressions, statements, Variable definition, symbolic constants.</p> <p><b>Operators and Expressions:</b> Arithmetic operators, unary operators, relational and logical operators, assignment operators, the conditional operator, bitwise operators, special operator.<br/>(With examples)</p> | 5 hours |
|    | Case study/Assignment and test   | 1 hour  |
| V  | <p><b>Module: Computer Network</b></p> <p><b>Introduction</b> :Networks and Types, Uses of Computer Networks</p> <p><b>Architectures:</b>Network software architecture and its layers and protocols, Network hardware architecture</p> <p><b>Topologies:</b>topologies and device like HUB, Switch and Routers</p>   | 5 hours |
|    | Case study/Assignment and test   | 1 hour  |







**Timetable**  
**JNAN VIKAS MANDAL'S**  
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| Time          | 21-06 | 22-06 | 23-06 | 24-06 | 26-06 | 27-06 | 28-06 | 30-06 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8:40 - 9:30   | MATHS | MATHS | OS    | MATHS | MATHS | DE    | MATHS | CN    |
| 9:30 - 10:20  | OS    | DE    | DE    | OS    | DE    | CN    | CN    | DE    |
| 10:20 - 11:10 | DE    | IP/DS | MATHS | CN    | OS    | IP/DS | OS    | TEST  |
| 11:10 - 12:00 | CN    | CN    | IP/DS | IP/DS | IP/DS | OS    | IP/DS |       |

**Class :S.Y.B.Sc. (I.T.) Bridge Course Time Table Term -1 Academic year: 2023-24**  
**Maths : Pintoo Jaiswar, DE : Mrs. Rajshree Pisal. OS : Mrs. Sharayu Kadam CN : Mrs. Archana Sanap**  
**IP/DS : Mrs. Bhagyashree Kulkarni.**

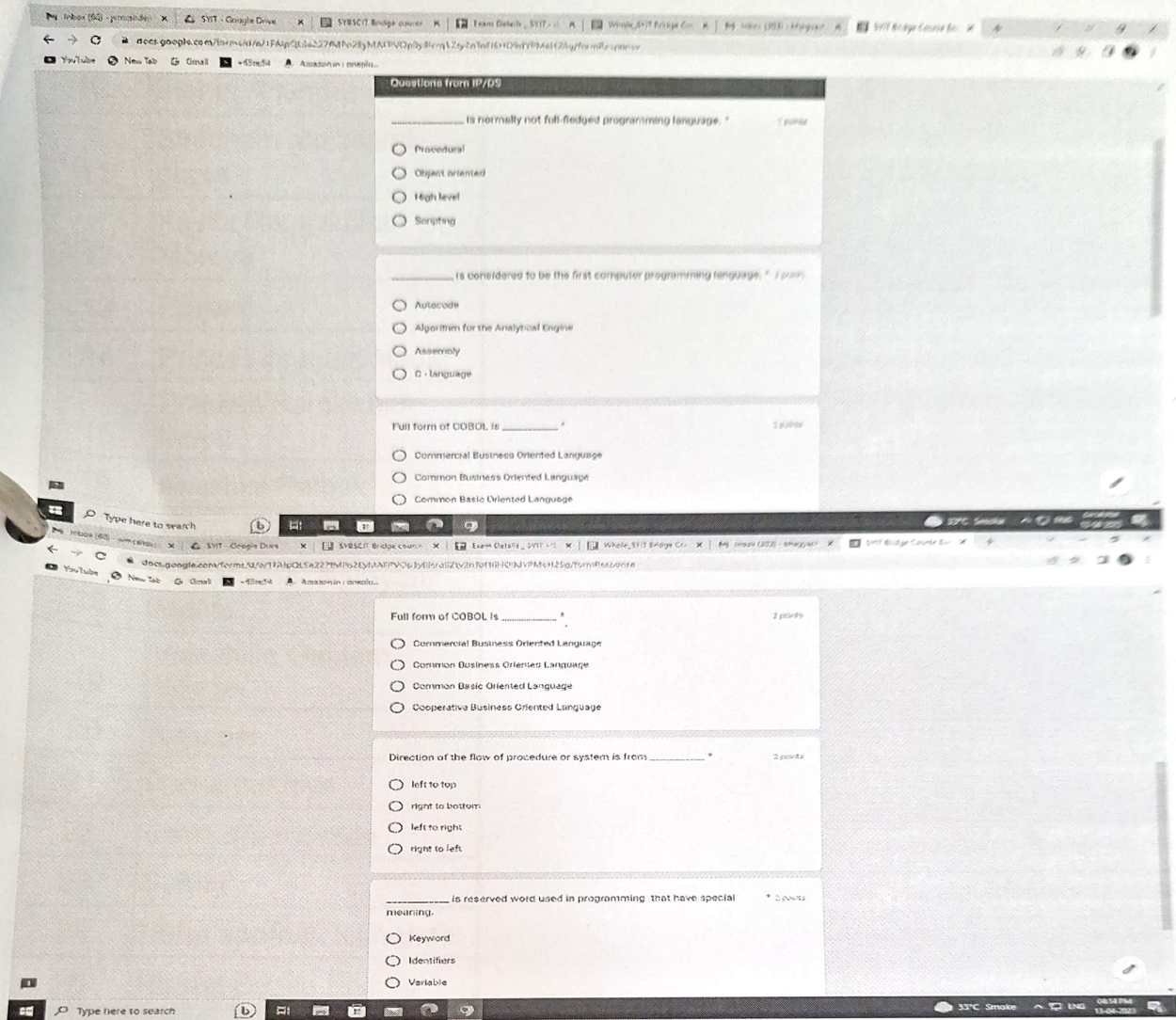
**Exam Paper**

|                       |                      |
|-----------------------|----------------------|
| Email *               | <input type="text"/> |
| Your email            |                      |
| Name of the Student * | <input type="text"/> |
| Your answer           |                      |
| Roll no *             | <input type="text"/> |
| Your answer           |                      |
| Class *               | <input type="text"/> |

33°C Smoke ENG 06:11 AM 12-04-2023

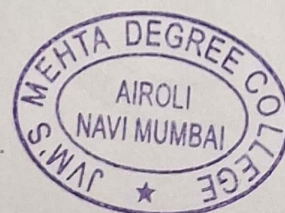






### Participant List

| Sr.No | Name of the Student    |
|-------|------------------------|
| 1     | Dhiraj Narvankar       |
| 2     | SOHAM SUNIL SALUNKE    |
| 3     | Towhid Khan            |
| 4     | Ankita Rankhambe       |
| 5     | Pawan kumar gupta      |
| 6     | Saish kulkarni         |
| 7     | Gandharva Vitthal Naik |
| 8     | Yash prajapati         |





|    |                             |
|----|-----------------------------|
| 9  | Aman Upadhyay               |
| 10 | Sumet Anandrao Jadhav       |
| 11 | Shubham mulchand<br>gupta   |
| 12 | Kavita Ramlakshan<br>Mourya |
| 13 | Prajwal                     |
| 14 | Prince Abraham Nadar        |
| 15 | Prakash Ramkishan<br>kewat  |
| 16 | Anushka Pathak              |
| 17 | Anuj sheshnath pal          |
| 18 | Sajankumar Narayan<br>Mahto |
| 19 | Videshika Gautam<br>Nikalje |
| 20 | Raju pal                    |
| 21 | Rahul medtiya               |
| 22 | disha dhanawade             |
| 23 | Sunny                       |
| 24 | Neha santosh lokhande       |
| 25 | Nirmal Sunila Bhikhu        |
| 26 | Sakshi Jetinga Vanjare      |
| 27 | Prachi Premlal<br>Chaudhary |
| 28 | Arya subhash dhuri          |
| 29 | Ashlesha Prakash<br>Gaude   |
| 30 | Nishant Vijay Ghadge        |
| 31 | Pratik Lahane               |
| 32 | Aman kailash jaiswal        |
| 33 | Rayyan Sabit Rumaney        |
| 34 | ANAND MOHAN<br>SHENOY       |
| 35 | Rishi jha                   |





|    |                            |
|----|----------------------------|
| 36 | Chaitanya Jadhav           |
| 37 | Madhavi Prashant Joshi     |
| 38 | Pratiksha Suresh Kadam     |
| 39 | Prachi ajay mule           |
| 40 | Kalpita kishor gaonkar     |
| 41 | Yash Chandrashekhar Hande  |
| 42 | Ritesh Kadav               |
| 43 | Ayush jaiswal              |
| 44 | Sai Sunil Biramane         |
| 45 | Abhijeet Ganesh Bhavanashi |
| 46 | Siddhi Vinod Kadam         |
| 47 | Shraddha Ramji yadav       |
| 48 | Samir Sunil Dhanawade      |
| 49 | Sheetal Tiwari             |
| 50 | Amishay Amiel Gadkar       |
| 51 | Aman umashankar gupta      |
| 52 | Sumi Dhara                 |

Flyer

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

**Mrs. Sharayu Kadam**  
**Mrs. Rajshree Pisal**  
**Mrs. Bhagyashree Kulkarni**  
**Mr. Pintoo Jaiswar**

**Date-21<sup>st</sup> June to 30<sup>th</sup>  
June 2023  
Duration-30 Hours**

**Mrs. Archana Sanap**  
IT-Incharge

**Mrs. Jhanvi Kshirsagar**  
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>>

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

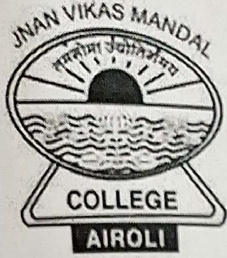
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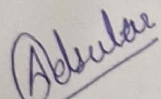
## SECOND YEAR BRIDGE COURSE REPORT 2023-24

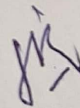
The bridge course was conducted for second year students of information technology. The course commenced from 21st June 2023. The course ended on 30th June 2023. Total five subjects were included in the bridge course with the aim of making the concepts more familiar. The total duration of course was 30 hours. Following faculties conducted the lectures


| Sr No. | Teacher Name              | Subject Name                          |
|--------|---------------------------|---------------------------------------|
| 1      | Mrs. sharayu Kadam        | Operating system                      |
| 2      | Mrs. Archana Sanap        | Computer Network                      |
| 3      | Mrs. Rajshree Pisal       | Digital Electronics                   |
| 4      | Mrs. Bhagyashree Kulkarni | Imperative Programming/Data structure |
| 5      | Mr. Pintoo Jaiswar        | Maths                                 |

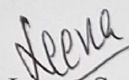
Assignments were given to students by respective teachers. Course exam was conducted on 30th June 2023 from 11am to 12pm. 5 questions from each subject were included in the online exam. Total 50 marks exam was conducted by Mrs. Rajshree Pisal. Total students attempted for the examination.

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

  
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In-charge of IT dept

  
Mrs. Janhavi Kshirsagar  
Coordinator of CS/IT dept

  
Dr. B.R. Deshpande  
Vice Principal

  
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