JNAN VIKAS MANDAL'S
AmratlalRaichand Mehta Degree College of Arts
DiwaliMaa Degree College of Science
MohanlalRaichand Mehta College of Commerce
Padmashree(Dr.) R.T. Doshi Degree College of Computer Science
Plot no.9, Sector -19, AiroliNavi Mumbai

Date: 22/12/2022

NOTICE

All members are hereby informed that there will be departmental meeting on December 23, 2022 at 10:30 a.m. in the Computer Science Laboratory.

Agenda

1. Conduction of bridge Course for FYCS.
2. Work Distribution

Asst. Prof. Janhavi Kshirsagar

Co-ordinator CS-IT Dept

Dr. B.R. Deshpande

Vice Principal

Dr. (Mrs.) Leena Sarkar

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 SCIENC.
Plot No.9, SEC.- 19, AIROLI,
NAVI MUMBAI-400 708

Principal

Date: 23/12/2022

Minutes of Meeting

December 23, 2022

The departmental meeting was held on December 23, 2022 at 10:30 a.m. in the Computer Science Laboratory.

Following matters were discussed and finalized as per agenda.

1. **Conduction of Bridge Course**

   It was decided that Bridge Course of FYCS will be conducted from 2nd January 2023 to 7th January 2023. Examination will be taken online on Google Form on 9th January 2023.

2. **Work Distribution**

   It was decided that Dr. Sanjivani Nalkar will design the syllabus, Ms. Shakuntala Kulkarni will make Google Form for conduction of examination, Mrs. Sarita Sarang will make the timetable for conduction of lectures of Bridge course and Mrs. Janhavi Kshirsagar will do the report writing.

Adjournment

Meeting was adjourned at 11:00 a.m.

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Date: 23/12/2022

Following members were present: Signature

Dr. (Mrs.) Leena Sarkar - Principal

Dr. B. R. Deshpande – Vice-Principal

Asst. Prof. Janhavi Kshirsagar

Asst. Prof.Sarita Sarang

Dr. Sanjivani Nalkar

Asst. Prof. Shakuntala Kulkarni

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F.Y.B.Sc (C.S)SYLLABUS OF BRIDGE COURSE

Duration: - 30 hours

Objectives-

1. To understand the need and importance of a database.

2. To introduce various concepts of Object-Oriented Programming and programming to the students.

3. To familiarize the prospective learners with the fundamentals of algorithms.

4. To familiarize students with the basics of Statistics and Calculus.

Outcome-

Students will be able to

1. Understand the basics of a Database.

2. Understand the concepts of programming before actually starting to write programs.

3. Understand the concepts of the Algorithm.

4. Enable learners to know descriptive statistical concepts

Module	Contents	Number of hours
I	**Module: Calculus and Statistics** Calculus:- Derivative, basic formulae and sums, integration, basic formulae, and sums Statistics:- Introduction to Statistics, Hypothesis and its type, population, sample, Types of tests	6 Lectures
	Case Study / Assignment	1 Lecture
2	**Module: Basics of Algorithm** Introduction to algorithms - What is an algorithm, analysis of the algorithm, Types of complexity, Running time analysis, How to Compare Algorithms, Rate of Growth, Performance characteristics of algorithms, Estimating running time/number of steps of executions on paper,	6 Lectures
	Case Study / Assignment	1 Lecture
3	**Module: Basic Programming Concepts for Python and OOPS** Python : History & Versions, Features of Python, Execution of a Python Program, Python Tokens, Use of input() and print() Function. Data types, Compound Data types ,Flow Control Statements. If,if-else, Nested If, While, For, Range() Function use. OOPS : What is OOPS, Features of OOPS , Advantages and Dis advantages of OOPS, C++ Features , Difference Between CC and Python. Basic C++ Program and Execution.	6 Lectures

		Case Study / Assignment	1 Lecture
4		**Module: Database Management System** Introduction of Database, Characteristics of DBMS, Need of Database, Types of Database, advantages of Database Management system, User of Database, Structured Query Language	6 Lectures
		Case Study / Assignment and Test	1 Lecture

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FYCS Bridge Course Time table 2021-22

Date	02-01-23	03-01-23	04-01-23	05-01-23	06-01-23	07-01-23
8:40-9:30	ALGO	ALGO	OOPS	DBMS	Assignment	STATS
9:50- 10:40	STATS	OOPS	DBMS	ALGO	ALGO	OOPS
10:40-11:30	STATS	STATS	ALGO	OOPS	OOPS	ALGO
11:30-12:20	DBMS	DBMS	DBMS	STATS	DBMS	DBMS
12:30-1:20	OOPS	OOPS	STATS	ALGO	STATS	Test

Basic Programming Concepts for Python and OOPS (OOPS) - Mrs Janhavi Kshirsagar

Database Management System (DBMS) - Mrs. Sarita Sarang

Basics of Algorithms (ALGO) - Dr. Sanjivani Nalkar

Calculus and Statistics (STATS) - Ms. Shakuntala Kulkarni

Mrs Janhavi Kshirsagar
CS-IT Coordinator

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List of Participants

Sr No	Name of Participants	Email Address
1	Harish Mudras	harishmudras13@gmail.com
2	Yadav Chandrasen Melaram	yadavchandrasen314@gmail.com
3	Rahul Charate	rahulcharate494@gmail.com
4	Abhishek Gupta	guptaabhishek27538@gmail.com
5	Aryan Kadam	kadamaryan1329@gmail.com
6	Sneha somnath shinde	snehashinde20045@gmail.com
7	Purav Ranjan Salla	sallapurav@gmail.com
8	Abhishek Ramesh Rewale	abhishek.rewale.2004@gmail.com
9	Archita pandey	architapandey262004@gmail.com
10	Tushar Rajaram jadhav	tusharjadhav262003@gmail.com
11	Pushkar Pandey	pushkarpandey3785@gmail.com
12	Ganesh Chavan	chavanganesh2122@gmail.com
13	Kanchan Choudhary	kanchanchoudhary0215@gmail.com
14	Sneha Suresh Kamble	snehakamble194@gmail.com
15	Anish yadav	anishyadav9076351604@gmail.com
16	Aamna shaikh	ak9440243@gmail.com
17	Laxmi yadav	laxmi76700@gmail.com
18	Rahul Sanjay sonawane	rahulsonawane59701@gmail.com
19	Adish Kharatmol	adishkharatmol183@gmail.com
20	Shubham jitendra mali	malishubham390@gmail.com
21	Priyanka Gurnani	priyankagurnani09@gmail.com
22	Jaiswar Shubham shyamdhar	shubhamkumar91090@gmail.com
23	Azhar Qureshi	azharqureshi12113@gmail.com
24	Aniket Ashok bhilare	ashokbhilare199@gmail.com
25	Shubham Yadav	yadavshubham400605@gmail.com
26	shreya sanjay bodke	shreyabodke252@gmail.com
27	Prathamesh Anil Gurav	prathameshgurav44@gmail.com
28	Sameeruddin	khanhalim8505@gmail.com

29	Harshad rawal	harshadrawal301@gmail.com
30	Kshamata yadav	kshamtayadav85@gamil.com
31	Sneha Deshmukh	sd1338063@gmail.com
32	Vinayak Vishwakarma	siddhivishwakarma391@gmail.com
33	Arya mhatre	aryamhatre141@gmail.com
34	Dolly jaiprakash yadav	yaduvanshidolly1226@gmail.com
35	Balmukund Shukla	shuklabalmukund0@gmail.com
36	Yadav surekha jaynath	surekha76700@gmail.com
37	Mamta Belurkar.	belurkarmamta@gmail.com
38	Mayank Deepak Harad	haradmayank9@gmail.com
39	Anjali boudh	boudhanjali59@gmail.com
40	Vanshika Chaudhary	vc615421@gmail.com
41	Omeshwariben desai	omeshwaribendesai@gmail.com
42	Vinita Santosh Vishwakarma	vinitav197@gmail.com
43	Prasad Kawathankar	pkawathankar@gmail.com
44	Pranali Deshmukh	dpranali755@gmail.com
45	Vinita Vishwakarma	vinitav197@gmail.com
46	Jatin anil singh	jthakur16dec@gamil.com
47	Azhar Qureshi	azharqureshi12113@gmail.com
48	Avani Rambhia	avanirambhia04@gmail.com
49	Sofiya ansari	Sofiyaansari1432@gmail.com
50	Sujal Maid	sujalvmaid@gmail.com
51	Vaishnavi Tiwari	vaishunagendratiwari26@gmail.com
52	Khushi singh	khushisingh2924@gmail.com
53	Aditya rai	adityarai0260@gmail.com
54	Priti Biswas	biswaspriti382@gmail.com
55	Omkar Ramesh Patil	omkarp1508@gmail.com
56	Devraj ramraj nishad	nishaddevraj81@gmail.com
57	Raj Ramesh Bengade	rajbengade@gmail.com
58	Soni kapur chandra Yadav	soniy3079@gmail.com
59	Aadesh Bhosale	aadeshbhosale1980@gmail.com
60	Yash more	yashmore174@gmail.com
61	Swapnil Khunte	samkhunte876@gmail.com
62	Virendra ramratan bandore	bandore2004@gmail.com
63	Rakesh gajaram meghwal	rakeshmeghwal989280@gmail.com
64	Swapnil laxman Mane	maneswapnil2004@gmail.com
65	Siddhi vinayak Salvi	salvisiddhi2005@gmail.com
66	Pranav Arun Kuvare	pranavkuvare19082018@gmail.com
67	Arjun Borker	devendraborker1109@gmail.com

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The bridge course was conducted for First Year computer science students from 2nd January 2023 to 7th January 2023 before the commencement of regular lectures. The duration of the course was 30 hours. Total four subjects were included in the course. The course was conducted by Computer Science department faculty members.

Mrs. Janhavi Kshirsagar	Basic concepts for Python and OOPS
Dr. (Mrs.) Sanjivani Nalkar	Basics of Algorithm
Mrs. Sarita Sarang	Database Management System
Ms. Shakuntala Kulkarni	Calculus and Statistics

The course benefitted:- 67 students.

The intention of this course was to bridge the gap between subjects studied at an earlier level and subjects to be learned in the next year of graduation. 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. Bridge Course will help students to have a smooth transition to graduation courses.

A test of 20 marks was conducted for all the students using Google Form by teachers.

Asst. Prof. Janhavi Kshirsagar

Coordinator, CS-IT Department

Dr. (Mrs.) Leena Sarkar

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