



**B.L.D.E. Association's
S.B.ARTS & K.C.P SCIENCE COLLEGE
VIJAYAPUR**

M.Sc. (CS) Programme

**A REPORT ON
Bridge Course**

**For
M.Sc (CS)-I Sem Students
2023-2024**

B.L.D.E. Association's
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VIJAYAPUR

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NOTICE

It is here by informed to all the M.Sc(CS) I Semester students that there will be Bridge Course from 3/1/2024 to 9/1/2024. So all of you should attend and get the benefit.

R. D. J. M.
30/12/2023

Co-ordinator
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Syllabus For Bridge Course 2023-24

Subject 1: Introduction of Operating System and its services

Overview: Definition of Operating System, Functions of an Operating System. Types of Operating System: Batch operating system Time-sharing operating systems, Distributed operating System, Network operating System and Real Time operating System Services: Batch Processing. Processes : Program, Process Life Cycle.

Subject 2: Basic computer organization and design

Instruction & Instruction Codes, Input-Output instruction, Instruction Set Completeness Arithmetic, logical and shift instructions A set of instructions for moving information to and from memory and processor registers. Instructions which controls the program together with instructions that check status conditions, Input and Output instructions

Subject 3: Introduction to Data and How to manage Data

Introduction to Data and Its management, Data base software's, DBMS characteristics, Applications and Development tools. DBMS system Relational Data Model: their key terms: Entity, Attributes, types of attributes, ER diagram on various data base structure: Bank DB, Hospital DB, Student College DB etc [Activities: assignments given on ER models, To give presentation on each Data base and their Structure] External Users of DB, End users their role, DB administrators, Designers Moving towards advances of DBMS in the higher level of Studies. Syllabus Discussion and their preparation. Role of Back end in the various application Models.

Subject 4: Data Structure

Data, Definition, Data types, Built-in Data Type, Derived Data Type, Basic types of Data Structures, Algorithm, Complexity **Basic** Operations, Classification Data Structures, Arrays Linked List. Stack Queue, Trees, Heap, Dictionary, Graph Real life applications of data structures


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Schedule For Bridge Course

Date/ Time	Time	Faculty	Syllabus Covered
03/1/2024	10am --12.00 pm	Dr. D. A. Mulimani	Subject 3
04/1/2024	10am -12.00 pm	Prof. Pavankumar M.	Subject 1
05/1/2024	10am -12.00 pm	Dr. D. A. Mulimani	Subject 3
06/1/2024	10am – 12.00pm	Prof. Pavankumar M.	Subject 2
08/1/2024	10 am– 12.00pm	Dr. D. A. Mulimani	Subject 4
09/1/2024	10 am – 12.00pm	Prof. Pavankumar M.	Subject 2


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M.Sc.(CS) Programme
Biridge Course Attendance Sheet



S. No.	USN	Student Name	3-Jan	4-Jan	5-Jan	6-Jan	8-Jan	9-Jan	Sign
1	P15KM23S038001	NAGARAJ PAWAR	1	2	3	3	5	6	<i>[Signature]</i>
2	P15KM23S038002	NAVYA VYASATEERTH UTTARESHWAR	<i>W</i> 1	2	3	4	5	6	<i>W</i>
3	P15KM23S038003	SOUMYASHREE R HANDI	1	2	3	4	5	6	<i>Shari</i>
4	P15KM23S038004	SAGAR SUNIL KULKARNI	1	2	3	4	5	6	<i>[Signature]</i>
5	P15KM23S038005	MOHINODDIN SHAIKH	-	-	1	2	3	4	<i>[Signature]</i>
6	P15KM23S038006	PRERANA AGARWAL	1	2	3	4	5	6	<i>[Signature]</i>
7	P15KM23S038007	RAHUL KABADE	1	2	3	4	5	6	<i>[Signature]</i>
8	P15KM23S038008	LAXMI HANAMANT YANKANCHI	1	2	3	4	5	6	<i>[Signature]</i>
9	P15KM23S038009	SANAKOUSAR SHAIKH	-	1	2	3	4	5	<i>[Signature]</i>
10	P15KM23S038010	SANDEEP DHARMARAJ GIRIGOUDAR	1	2	3	4	5	6	<i>[Signature]</i>
11	P15KM23S038011	PRAJWAL ANAND KHOT	1	2	3	4	5	6	<i>[Signature]</i>

Faculty Incharge	Dr.Daneshwari Muliminai	<i>[Signature]</i>
	Prof. Pavankumar M.	<i>[Signature]</i>

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Report

A bridge course is conducted for the students every year by the M.Sc(CS) Programme faculty to get the students the knowledge of computer science. The main objective of the course is to bridge the gap between subjects studied at UG level and subjects they would be studying in M.Sc(CS) Programme. A Bridge course aims to cover the gap between the understanding level of the degree courses and higher educational courses.

Objectives: To act as a buffer for the new entrants.

- Applications based self-learning and intermingling of a large cross section of students from vastly varying backgrounds.
- The students will be equipped with the knowledge and the confidence needed to take on bigger challenges.
- Nurture a deeper understanding of the local and global world and our place in it as concerned citizens of the world.
- Interactive and Active Learning by Doing have been weaved into the Bridge Course.
- Active learning with the help of other students.

All faculties completed their assigned syllabus as per the given schedule. All the students attended this Bridge Course and faculties got positive response for conducting this course.


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