



R. C. Patel Educational Trust's
R. C. Patel Arts, Commerce and Science College
Shirpur-425405, Karvand Naka, Dist.- Dhule (Maharashtra)
E-mail - principal@rcpasc.ac.in

Affiliated to: K. B. C. North Maharashtra University, Jalgaon-425001

Self Study Report (SSR): 2024 (4th Cycle)



Criteria - 1 Curricular Aspects

Key Indicator - 1.1 Curricular Planning and Implementation

Metric No. - 1.1.1 (QIM)

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

**Submitted to
National Assessment and Accreditation Council, Bangalore**



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

Karvand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

☎: (02563) 299328

E-mail: principal@rcpasc.ac.in

President

Hon. Bhupeshbhai Patel

Principal

Dr. D. R. Patil

Date: 15/06/2024

Declaration

This is to declare that, the information, reports, true copies of the supporting documents, numerical data etc. submitted in these files is verified by Internal Quality Assurance Cell (IQAC) and it is correct as per the office record.

This declaration is for the purpose of NAAC accreditation of the HEI for the 4th cycle assessment period 2018-19 to 2022-23.

Place: Shirpur

Date: 15/06/2024

Dr. Sandip P. Patil

IQAC Co-ordinator

IQAC Coordinator

R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

Shirpur, Dist.-Dhule (M.S.) 425405



Dr. D. R. Patil

IQAC Chairman & Principal

PRINCIPAL

R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

Shirpur, Dist.-Dhule (M.S.) 425405

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The Shirpur Education Society



R.C.PATEL EDUCATIONAL TRUST

R. C. Patel Educational Trust

R. C. Patel Educational
Campus (Colleges) Nimzari Naka,
Karwand Naka, Shirpur 425 405
Dist. Dhule (MS)



Academic Year 2018 - 19
Semester I & II
Department Computer Science
Class & Subject _____
Faculty Name B. S. Panthibhai

Faculty
Academic
Diary...



PERSONAL PROFILE

1. PERSONAL INFORMATION

Full Name	Prof. BHANUDAS SURESH PANCHABHAI
Address	22-A, Ashirwad, Vidya Vihar Housing Society-A, Shirpur, Tal. Shirpur-424405. Dist. Dhule (Maharashtra)
E-Mail	bharat.panchbhai@gmail.com
Date of Birth	25-10-1971
Religion	Hindu
Caste	Hindu-Brahmin
Nationality	Indian
Gender	Male
Marital Status	Married
Mobile Number	9420404579
Adhar Number	6508 0562 8096
PAN Number	ACLPP8014A
Designation	Assistant Professor
Subject/Specialization	Computer Science
Place of work	R.C. Patel Arts, Commerce and Science College, Shirpur.
Years of Experience	18-10-1994 to till this date (Regular Appointment)

2. HIGHLIGHTS:

1. Myself associated as subject expert in NME-ICT, MHRD, New Delhi e-content titled "Radio Frequency Identification" produced by EMRC, DAVV, Indore, for Sakshat.com.
2. Appointed as a National Conference Convener for Advanced Trends and Challenges in Computer Science also for state level seminar on digital image processing.
3. Committee member as a Reviewer for Vrunda book & Atharav book Publications, Jalgaon.
4. Appointed as a Subject expert, LIC member, Examiner etc. in various affiliated colleges/Institute under the KBCNMU, Jalgaon area.
5. Technical Advisor for State level Programming contest 'C' / 'C++' and Session chair for National conference at Chalisgaon.
6. Participated and selected in Avishkar -2013 at KBCNMU, Jalgaon.
7. Appointed as Guest lecturer, Visiting Faculty member and Resource person.
8. Published Text books with ISBN No.
9. Work as a Coordinator for Ekkalavya center (Carrier competition one year program of NMU at our college for Academic Year -2012-13).
10. Published Papers In Reputed journals with Impact factor =
11. Presented Papers In National Conference = 21, State level=01, International Conference =01, Article=02
12. Faculty Development Programs
Orientation: 01
Refresher: 03,
Training: 04, Workshop (University Level/National):36
13. Appointed as a Post Graduate Recognized Teacher & PG guide from June 2000.
14. Active participation in NSS camp, Youth festival, IT Dindi, Blood Donation camp, Election Duty, Cultural Activities and Placement cell.

15. Appointed as an organizing committee member for National Conference at P.O.Nahata College,Bhusawal.

16. Appointed as a Certificate Course coordinator.

3. AWARDS

1. Rashtriya Vidya Gaurav Puraskar by Indian Solidarity Council.
2. Bharat Vidya Shiromani Award by International Business Council.
3. Jewel of India Award by International Institute of Education and Management.
4. Rashtriya Vidya Gaurav Gold Medal Award By International Institute of education & Management.
5. EET CRT Education Pro : Appreciation certificate and Trophy
6. ARCH of International Education Excellence Award By International Business Council.

4. QUALIFICATION DETAILS

Degree	Year of Passing	Board/University	Grade
Bachelor of Computer Science	1992	Savitri Bai Phule University of Pune, Pune	A
Master of Computer Science	1994	Savitri Bai Phule University of Pune, Pune	A
Certificate of Training LINUX OS	2012	IIT , Bombay	A
Certificate of Training JAVA Programming	2016	IIT , Bombay	A
Certificate of Training PHP Programming	2016	IIT , Bombay	A
PhD (Pursuing)			
CCC Course	2018	NILET	B

Faculty Members

Teaching Staff					
Sr. No.	Name	Qualification	Designation	Experience in years	
				UG	PG
01	Panchbhai Bhanudas Suresh	M.C.S.	Head of Department	24	18
02	Mone Sunil Dhondu	M.C.A. M.Phil.(CS), SET	Asst. Professor	22	18
03	Maheshwari Anand Jayantilal	M.Sc., SET	Asst. Professor	14	14
04	Chavan Dipak Eknath	M.Sc.	Asst. Professor	11	11
05	Patil Komal Purshottam	M.Sc.	Asst. Professor	02	02
06	Sonawane Megha Ramdas	M.Sc.	Asst. Professor	02	02
07	Rajput Mayuri Ravindra	M.Sc.	Asst. Professor	01	01
Supporting Staff					
01	Kulthe Yogesh Suresh	B.C.A.	Lab. Assistant	08	
02	Anis Beg Yusuf Beg	12 th	Peon	04	

Security Member and Telephone Numbers



SEMESTER - I





THE SHIRPUR EDUCATION SOCIETY R. C. PATEL EDUCATIONAL TRUST



Academic Calendar

R.C. Patel Arts, Commerce and Science College, Shirpur

Department of Computer Science

Academic Calendar 2018-2019

Sr. No.	Name of Activity	Month and Year
1.	Admission Counseling for UG and PG	15 th June to 30 th July-2018
2.	International Yoga Day Participation	21 st June 2018
3.	Welcome Function For PG students	05 th August 2018
4.	On line Registration committee ,Ant ragging and preparation of merit list	18 th August 2018
5.	Computer science Conference organizing Committee	Month August/ September 2018
6.	Teachers Day Celebration	05 th September 2018
7.	Placement Cell Activity	20-25 th September 2018
8.	Internal Test UG and PG	14 th to 21 st September 2018
9.	Computer Science Quiz Competition/PPT Competition	2-4 th October 2018
10.	Internal Test PG (Second Internal)	16 th October 2018
11.	Guidelines and Inspiration to students and Teachers for Avishkar	25 to 28 th December 2018
12.	Project Guidelines and Recent Trends in Computer By Speaker	27 th January 2019
13.	Culture Program Activities	January 2019
14.	Guest/Speaker	January 2019
15.	Internal Test UG and PG	18 th to 28 th February 2019
16.	Poster Presentation Competition	6 th March 2019
17.	Internal Test PG (second Internal)	22 nd March to 26 th March 2019
18.	Send off for final year UG and PG students	March 2019
19.	Preparation and Guidelines for M.Sc. Project Work	From December to Till Examination
20.	Preparation of resume and placement cell activity	Through academic year
21.	Run certificate Course In Commerce For Textile Industry	Through academic year
22.	Conduct seminar on Various topics by PG students	Through academic year
23.	Preparation of online feedback data of Teachers by students	At the end of Academic year
24.	Assist to Nonteaching ,Teaching and students for S/w and H/w, Internet etc.	Through academic year
25.	For UG and PG students :Conduct IIT Bombay Spoken tutorial Course	Within academic year



THE SHIRPUR EDUCATION SOCIETY
R. C. PATEL EDUCATIONAL TRUST



Time- Table

P.N.	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	CS-Lab-II M.Sc. I						
2	CS-314 CG	CS-314 CG	CS-314 CG				
3							
4			CS-314 CG	CS-212 OOAD & C++	CS-212 OOAD & C++	CS-212 OOAD & C++	
5					CS-212 OOAD & C++		
6	CS-Lab-II TYBSc	CS-Lab-II TYBSc	CS-Lab-II TYBSc				
7							
8							

Time- Table

P.N.	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1							
2	CS-324 PHP	CS-324 PHP	CS-324 PHP	CS-203 CC	CS-203 CC	CS-203 CC	
3				CS-212 C++-II	CS-212 C++-II	CS-212 C++-II	
4			CS-324 PHP	CS-203 CC	CS-212 C++-II		
5							
6	CS-Lab-II TYBSc			CS-Lab-II TYBSc	CS-Lab-II TYBSc		
7							
8							



Calendar Planning of Faculty Activities

* Scope and objectives

Computer science is concerned with the design, modelling, analysis of applications of computer related systems. Its study at RCPET provides education at the undergraduate & Post graduate levels necessary to understand, design, implement & use the S/W, H/W of digital computers & digital systems. The program provide comprehensive & integrated studies of subjects in Computer science, Architecture, Computer networks, distributed computer systems, Programming languages & S/W system information & data management, artificial intelligence, Computer science theory, Computational systems, biology & bioinformatics & Computer vision & graphics.



Department Mission :-

The Computer Science department strives for excellence in creating, applying & imparting knowledge in Computer Science through Comprehensive educational programs, research in Collaboration with industry & government, dissemination through scholarly publications & service to Professional Societies, the Community & State & Nation.

Objectives

1. Make valuable technical education Contributions to design, development, & production in their Practice of Computer Science & related engineering or application areas.
2. Demonstrate strong Communication skills & the ability to function effectively as part of a team.
3. Demonstrate a sense of social & ethical responsibility in their Professional endeavors.
4. Engage in Professional development.

Career Prospects

The IT sector has witnessed a significant boom in the recent decade, which has increased the number of jobs, giving fresher's new opportunities to make successful careers. Students have acquired jobs not only in IT sector but in other sectors like Data Publishing, Consultancies, Financial institutes etc.

With immense scope for students to get placed in software and hardware companies, the students can work in following sectors:

- Banks
- Schools and Colleges
- Technical Support
- Traffic Light Management
- Consultancies
- Insurance Providers
- System Maintenance
- Security and Surveillance Companies
- Computers and Related Electronic Equipment Manufactures
- Software Development Companies

Program Outcomes

Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline
6. Apply computer science theory and software development fundamentals to produce computing-based solutions

Course Outcomes

1. Apply algorithmic, mathematical and scientific reasoning to a variety of computational problems
2. Design, correctly implement and document solutions to significant computational problems
3. Analyze and compare alternative solutions to computing problems
4. Implement software systems that meet specified design and performance requirements
5. Work effectively in teams to design and implement solutions to computational problems
6. Communicate effectively, both orally and in writing
7. Recognize the social and ethical responsibilities of a professional working in the discipline



THE SHIRPUR EDUCATION SOCIETY R. C. PATEL EDUCATIONAL TRUST



Course Objective / Course Outcome

North Maharashtra University, Jalgaon
T. Y. B. Sc. (Computer Science)
(w.e.f. June -2017)
Computer Aided Graphics (UG-CS-314)
Semester-I

Total lectures: 60
Total Marks: 90

Unit-1: Introduction to Graphics

[L:08 M:16]

- 1.1 The origin of computer graphics
- 1.2 Application of Computer Graphics How the interactive graphics display works.
- 1.3 Definitions: Pixel, Resolution, Interactive, Non interactive graphics, Aspect Ratio, Active graphics, Passive graphics,
- 1.4 How the interactive graphics display works.
- 1.5 Display types: Random Scan and Raster Scan

Unit-2: Line Drawing Technique

[L:06 M:12]

- 2.1 Co-ordinate Systems
- 2.2 The Simple DDA
- 2.3 The Symmetrical DDA
- 2.4 Bresenham's line drawing Algorithm
- 2.5 Bresenham's circle drawing Algorithm

Unit-3: Two Dimensional and Three Dimensional Transformations

[L:16 M:20]

- 3.1 Transformation principles
- 3.2 Concatenations
- 3.3 2D Matrix Representation
- 3.4 3D Transformations
- 3.5 Transformation in Viewing
- 3.6 The perspective Transformation

Unit-4: Clipping and Windowing

[L:14 M:16]

- 4.1 Define: Clipping, Window, view port
- 4.2 Cohen-Sutherland algorithm
- 4.3 Mid-point Subdivision
- 4.4 Polygon Clipping and flowchart to clip each polygon vertex and closing routine
- 4.5 The Windowing Transformation
- 4.6 3-D Clipping

Unit-5: Raster Graphics and Solid Area Scan-Conversion

[L:08 M:12]

- 5.1 Introduction
- 5.2 Scan Converting Line Drawings
- 5.3 Scan Converting Polygons
- 5.4 Coherence



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Course Objective / Course Outcome

- 5.5 (YX) Algorithm
- 5.6 Priority: Painter's Algorithm

Unit-6: Hidden Surface Elimination

[L:08 M:12]

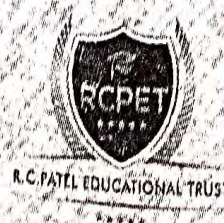
- 6.1 Object Space and Image Space Algorithms
- 6.2 The Depth Buffer Algorithm
- 6.3 Warnock's Algorithm

Reference:

1. William M. Newman and Robert F. Sproull, "Principles of Interactive Computer Graphics", ISBN : 9780074632932 (Second Edition), Tata-McGraw Hill Publication
2. Rogers, "Procedural Interactive Computer Graphics", ISBN- 978-070486775, McGraw Hill Book Company Ltd.
3. Mathematical Elements of Interactive C.



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Course Objective / Course Outcome

North Maharashtra University, Jalgaon

T. Y. B. Sc. (Computer Science)

(w.c.f. June -2017)

UG-CS-LAB-302

LAB on Computer Aided Graphics & Programming in VB.NET

Semester-I

Computer Aided Graphics

1. Draw the following pattern using standard graphics library:
 - a. Block Diagram of Computer
 - b. Display Flag of India
 - c. Flow Chart Symbols / DFD Symbols / ER-Diagram Symbols
2. Implement Bresenham's Line Drawing Algorithm
3. Implement Bresenham's Circle Drawing Algorithm
4. Implement DDA line Drawing Algorithm
5. Implementing translation transformation on polygon
6. Implementing scaling transformation on polygons
7. Implementing rotation transformation on polygons
8. Implement Cohen-Sutherland line clipping algorithm

VB.NET

1. Write a VB.Net Program to demonstrate Array.
2. Write a Window based application to find maximum of three numbers.
3. Write a Window based application to find factorial of a given numbers.
4. Write a Window based application for Armstrong numbers.
5. Write a VB.Net Program to demonstrate Exception Handling.
6. Write a VB.Net Program to demonstrate Constructor.
7. Write a VB.Net Program to demonstrate Single Inheritance.
8. Write a VB.Net Program to demonstrate Interface.
9. Write a VB.Net Program to demonstrate Polymorphism.
10. Design GUI and write Code for the following in VB.Net (ADO.Net) without wizard:
Accept employee details like emp_no, emp_name, emp_age and save these details in emp_TBL.



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Course Objective / Course Outcome

North Maharashtra University, Jalgaon

S. Y. B. Sc. (Computer Science)

w.e.f. June- 2016

Sem – I Paper – II

COMP-212 : Object Oriented Analysis & Design (OOAD) & Introduction to C++

Unit 1 Introduction to OOAD

(8L,14M)

- 1.1 Object Oriented Development
- 1.2 Benefits and applications of OOP
- 1.3 Characteristics of Object: Identity, classification, polymorphism, Inheritance, encapsulation, abstraction.
- 1.4 Difference between Structure oriented programming and object oriented programming.

2 Object Modeling & Analysis

(12L,16M)

- 2.1 Abstract & Object Modeling Technique
- 2.2 Object & classes
- 2.3 Advanced Link & Association Concept
- 2.4 Generalization & Inheritance, Grouping Constraints
- 2.5 Aggregation
- 2.6 Metadata
- 2.7 Concepts & Types of Models

3. Object Oriented Programming styles

(8L,12M)

- 3.1 Basics of Object oriented Programming styles
- 3.2 Reusability
- 3.3 Extensibility
- 3.4 Robustness

4. Introduction to C++

(10L, 16M)

- 4.1 Basics of C++, Structure of C++ Program, keywords in C++,Data types hierarchy in C++ ,
- 4.2 Operators in C++:
 - 4.2.1 Scope resolution operator
 - 4.2.2 Insertion and Extraction operator
 - 4.2.3 New and Delete operators, reference operators.
- 4.3 Manipulators function: endl, setw, setfill, setprecision.

5 Classes and objects

(10L,16M)

- 5.1 Classes, object, Specifying a class, Access specifiers, Class members
- 5.2 Defining member functions: Inside and Outside the class definition
- 5.3 Creating objects, passing object as an argument
- 5.4 Array of objects

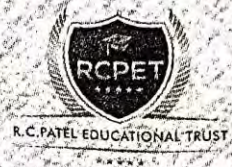
Unit 6 Constructors and Destructors

(12L,16M)

- 6.1 Memory allocation and static data members
- 6.2 What is constructor?
- 6.3 Types of constructors:
 - 6.3.1 Default Constructor



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Course Objective / Course Outcome

- 6.3.2 Parameterized Constructor
- 6.3.3 Copy Constructor
- 6.3.4 Overloaded constructors in a class
- 6.3.5 Constructor with default arguments
- 6.4 Destructors

Reference Books:

1. Object oriented modeling & design By James Rum Baugh, Michel Blaha, PHI, 2005
2. Introduction to object oriented analysis & Design with UML & the unified Process By Stephen R. Schach, TMH, 2003
3. Object Oriented analysis & Design with Applications, 2nd edition by Grady Boch, Pearson Education, 2004
4. Object oriented programming with C++, E Balgurusamy, 2nd edition,
5. Programming with C++ D Ravichandran
4. Programming in C++ by John H Hubbard
5. Mastering C++ by K Venugopal, Rajkumar, T Ravishankar



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Course Objective / Course Outcome

North Maharashtra University, Jalgaon
T. Y. B. Sc. (Computer Science)
(w.e.f. June -2017)
UG-CS-323 Internet Programming using PHP
Semester II

Total lectures: 60
Total Marks: 90

Unit – 1 The Basics of PHP

L:16 M:24

- 1.1 Introduction to PHP
- 1.2 Features & Drawbacks of PHP, How PHP Works?
- 1.3 Version of PHP
- 1.4 Lexical Structure of PHP
 - 1.4.1 Structure & Syntax of PHP
 - 1.4.2 PHP with HTML
 - 1.4.3 Comments
 - 1.4.4 Data Types and Variables
 - 1.4.5 Operator
- 1.5 Flow Control Statements
 - 1.5.1 Conditional Statements
 - 1.5.2 Looping Statements
 - 1.5.3 Exit, Return, Die, Include and Require Statements

Unit – 2 Arrays, Function and String

L: 12 M: 20

- 2.1 Introduction to Array
 - 2.1.1 Index Vs Associative Array
 - 2.1.2 Multidimensional Array
 - 2.1.3 Different array function in PHP
 - 2.1.4 Traversing arrays, Sorting arrays
- 2.2 Introduction to Function
 - 2.2.1 Defining and Calling a function
 - 2.2.2 Scope of variables in function
 - 2.2.3 Function Parameters
 - 2.2.4 Returning Values from a function
 - 2.2.5 Recursive Functions
- 2.3 Types of strings in PHP
- 2.4 Printing functions
- 2.5 Comparing strings
- 2.6 Manipulating and Searching strings
- 2.7 Regular Expressions

Unit – 3 Object-Oriented PHP

L: 12 M: 16

- 3.1 Introduction and Benefits of OOPs
- 3.2 Creating a Class
- 3.3 Creating an Object
 - 3.3.1 Adding a Method
 - 3.3.2 Adding a Properties



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Course Objective / Course Outcome

- 3.3.3 Visibility (Public, Private and Protected)
- 3.4 Constructor and Destructors
- 3.5 Inheritance (Extending a class)
- 3.6 Abstract classes, Final classes
- 3.7 Interfaces
- 3.8 Exception handling
- 3.9 Serialization

L: 10 M: 14

Unit – 4 Web Techniques

- 4.1 Introduction
- 4.2 HTTP Basics
- 4.3 Processing Forms
 - 4.3.1 Methods (Get and Post Method)
 - 4.3.2 Parameters (\$_GET and \$_POST)
 - 4.3.3 Self Processing Pages
 - 4.3.4 File Uploads
- 4.4 Maintaining State
 - 4.4.1 Cookies
 - 4.4.2 Sessions
 - 4.4.3 Combining Cookies and Sessions

L: 10 M: 14

Unit – 5 PHP with MySQL

- 5.1 Introduction to MySQL
- 5.2 Interaction between PHP and MySQL, PHP , PHP functions to manipulate MYSQL database
- 5.3 Error Checking
- 5.4 Execute DDL Statements
- 5.5 Execute DML Statements

References Books:

1. RasmusLerdorf and Kevin Tatroe, “ Programming PHP” ,ISBN: 978-1-56592-610-3, O'Reilly publication,2002
2. Dave W. Mercer, Allan Kent, “Beginning PHP 5” ,ISBN: 978-0-7645-5783-5, Wrox publication , July 2004.
3. W. Jason Gilmore , “Beginning PHP and MySQL”,ISBN: 978-1-4302-3115-8, 3rd edition, Apress Publication.
4. Ivan Bayross and Sharnam Shah , “PHP 5.1 for Beginners”, ISBN: 9788184040753 SPD Publication 2007

Websites:

1. <http://www.php.net.in>
2. <http://www.w3schools.com>
3. <http://www.tutorialpoints.com>



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Course Objective / Course Outcome

North Maharashtra University, Jalgaon
S. Y. B. Sc. (Computer Science)
w.e.f. June- 2016
Sem – II Paper – II
COMP-222: Programming in C++

Unit 1 Function Overloading	(12L, 18M)
1.1 Basics of function and its need? returning objects from functions,	
1.2 Inline functions, friend functions	
1.3 Functions with default arguments	
1.4 Function overloading, function overloading with arguments	
1.5. Scoping rules & features of function overloading.	
Unit 2 Operator Overloading	(12L, 18M)
2.1 Introduction to operator overloading, rules of operator overloading	
2.2 Operator overloading:	
2.2.1 Unary and binary operators,	
2.2.2 Comparison, arithmetic assignment operator	
2.3.3. Overloading new & delete operators	
2.3 Data conversion between objects and basic data types and vice-versa.	
Unit 3 Pointers in C++ & Exception Handling	(12L, 18M)
3.1 Concept of pointer, pointer operator	
3.2 Pointer to function.	
3.3 Pointer and object, array of pointer to object	
3.4 Exception Handling mechanism, Concept of try, throw and catch with example	
Unit 4 Inheritance and Extending Classes	(12L,20M)
4.1 Introduction to Inheritance	
4.2 Types of Inheritance:	
4.2.1 Single level	
4.2.2 Multiple inheritance,	
4.2.3 Multilevel inheritance	
4.2.4 Hierarchical inheritance	
4.2.5 Hybrid inheritance.	
4.3 Derived Class Constructors	
4.4 Benefits of inheritance in C++	
4.5 Virtual function, this pointer.	
4.6 Abstract class, Pure virtual function.	
Unit5 Templates & Introduction to Standard Template Library	(12L,16M)
5.1 Basic of templates, Function templates, Class templates	
5.2 Templates with multiple parameter	
5.3 Introduction to STL,	
5.4 Components of STL, Containers (Sequence, Associative & Derived)	

Reference Books:

- 1 Object oriented programming with C++, E Balgurusamy, 2nd edition,
- 2 Programming with C++ D Ravichandran
- 3 Programming in C++ by John H Hubbard



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Course Objective / Course Outcome

CS-203 Compiler Construction

Unit-1 Introduction to Compilers

[M:10, L:8]

The structure of a compiler, Phases of Compilation: the Analysis – Synthesis Model. Applications of Compiler, Compiler Construction Tools.

Unit-2 Lexical Analysis

[M:15, L:12]

A simple approach to the design of lexical analyzers, Role of lexical analyzer, tokens, patterns, lexeme, lexical errors, Specification of tokens, Recognition of tokens, lexical analyzer generator LEX, Regular expressions, Finite automata, From regular expressions to finite automata, Minimizing the number of states of a DFA.

Unit-3 Syntax Analysis

[M:25, L:14]

Context-free grammars, Derivations and Parse trees, Ambiguous grammar, Role of parser, types of Parsers: Top down Parsing, Problems in top down parsing, recursive parsing, problems in recursive parsing, predictive parsing, error recovery in predictive parsing.(LL(1)), Bottom –up parsing, Shift-reduce parsing, Actions in Shift reduce parser, Operator-precedence parsing, its advantages and disadvantages, error recovery in operator precedence parser, LR parsers: Simple LR, LR (1), LALR parser.

Unit-4 Intermediate Code generation

[M:10, L:8]

Need of Intermediate code generation, three address code, Quadruples, triples, indirect triples and blocks

Unit 5 Code optimization

[M:15, L:10]

Need of code optimization, classification of code optimization techniques, and optimization within basic blocks: Folding, Redundant operation elimination. Within loop: Strength reduction, Dead code elimination, Moving operation within block, out of block.

Unit 6 Symbol Table Organization

[M:15, L:8]

Methods of organizing symbol table: Unsorted, sorted symbol table, Binary Search, hashing technique, its advantages and disadvantages, Collision resolution techniques: Rehashing, Chaining.

References:

1. Alfred V. Aho, Monica S. Lam, Ravi Sethi, Jeffrey D. Ullman, "Compiler Principle, Techniques and Tools", 2nd Edition illustrated, ISBN: 9781292024349, Pearson Addison Wesley.
2. William A. Barret, John D. Couch, "Compiler Construction Theory and Practice", Computer Science Series, 1979, ISBN: 978-0574213358, Asian Student Edition.
3. Dhamdhare D. M. , "Compiler Construction Principle and Practice", 2002, ISBN: 9780333904060, McMillan India.
4. David Gries, "Compiler Construction for Digital Computers", 1st Edition, 1971, ISBN: 9780471327769, Wiley.
5. David Galles, "Modern Compiler Design", 2nd Edition , 2009, ISBN: 9788131709412, Pearson Education.



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Lecture Planning (Teaching Plan)

Class: T.Y. B.Sc.

Division _____

Subject: Computer Aided Graphics

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	18/06/18	01	The origin of Computer Graphics	Introduction
2	19/06/18	02	Passive & Interactive CG.	Types of CG
3	20/06/18	03	Pixel Resolution, Aspect Ratio, Refresh Rate, Intensity	Basic Defns
4	26/06/18	04	Display type: Random & Raster	Display Types
5	27/06/18	05, 06	Applications of Computer Graphics, Co-ordinate systems	Appls of CG
6	02/07/18	07	Properties of line drawing incremental systems	chars of line
7	03/07/18	08	The simple DDA	Simple DDA Algo.
8	04/07/18	09, 10	The Symmetrical DDA, Bresenham's Algorithms	Symmetrical DDA Algo. & Bresenham's
9	09/07/18	11	Transformation Principles	Transformation
10	10/07/18	12	Matrix Representation Transformation	Matrix Transf ^m
11	11/07/18	13	Transformation in Viewing	Viewing Transf ^m
12	16/07/18	14, 15	The Perspective Transformation	Perspective Transf ^m
13	17/07/18	16	Line-clipping Algorithms	Cohen Sutherland algo.
14	18/07/18	17	Mid-Point Subdivision	Mid-Point Subdiv.
15	23/07/18	18, 19	Polygon clipping	Polygon clipping Al.

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Lecture Planning (Teaching Plan)

Class: T.Y.B.Sc. Division _____ Subject: Computer Aided Graphics

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	24/07/18	20	Viewing & windowing Transf ^m	Viewing & windowing
2	06/08/18	21, 22	3-D clipping	3-D clipping Concept
3	07/08/18	23, 24	About Raster Graphics & Solid Area Scan Conversion	About Scan Conversion
4	08/08/18	25, 26	Scan Converting line drawings	line drawings
5	13/08/18	27, 28	Scan Converting Polygons coherence	Polygon Coherence
6	14/08/18	29, 30	(Yx) Algorithms & object space Algo.	(Yx) Algorithms
7	20/08/18	31, 32	Image space Algorithms.	Image space
8	21/08/18	33, 34	The Depth Buffer Algorithms. Warnock's Algorithms.	Depth Buffer & Warnock's Algo.
9	4/09/18	35, 36	Examples of line clipping Algo.	line clipping Algo.
10	11/09/18	37, 38	Examples of Transformation	Transformation
11	25/09/18	39, 40	Compare Refresh vs Random Scan display.	Comparison
12	4/10/18 3/10/18	41, 42 43, 44, 45	Solved question Papers Test Tutorials	Test tutorials & sample question papers
13	4/10/18, 5/10			
14				
15				

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Lecture Planning (Teaching Plan)

Class: S.Y. B.Sc. Division _____ Subject: Programming With C++

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	05/07/18	01	structure oriented Vs OOP characteristics of OOPs	Structure Vs oops
2	06/07/18	02, 03	C++ Structure, Keywords in C++	C++ Basics
3	07/07/18	04	Data types in C++ operators	Data types
4	12/07/18	05	Manipulators in C++ class, objects.	Manipulators of objects
5	13/07/18	06, 07	Access Specifiers, class member, static data member	Access specifiers of static data member
6	14/07/18	08	Member function, In/Out class definition, Creating objects	Member functions In/Out class
7	19/07/18	09	Passing objects as an argument Array of objects	Passing object as an argument
8	20/07/18	10, 11	Memory allocation static data members	Allocation & Deallocation of memory
9	21/07/18	12	Constructors type of Constructors	Constructors
10	26/07/18	13	Destructors Benefits & Appl ⁿ of oop	Destructors
11	27/07/18	14	Concept of Pointer, Pointer operator	Concept of Pointer
12	03/08/18	15, 16	Pointer to function	Pointer to function
13	04/08/18	17	Array of Pointer to object	Array of Pointer
14	09/08/18	18	Pointer & object	Pointer & object
15	10/08/18	19, 20	function & Need Returning objects from function	Need of function

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Lecture Planning (Teaching Plan)

Class: <u>S.Y.B.Sc.</u> Division _____ Subject: <u>Programming with C++</u>				
Lectures Required as per the Syllabus				
Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	11/08/18	21	inline functions, friend functions	inline & friend func
2	16/08/18	22, 23	function with default arg. function overloading	function with default arg.
3	18/08/18	24	function overloading with arg.	function overloading with arg.
4	23/08/18	25, 26	scoping rules & features of function overloading	scoping rules & features
5	24/08/18	27	introduction to operator overloading	operator overloading
6	30/08/18	28	Rules of operator overloading	Rules of operator over
7	31/08/18	29, 30	Unary & Binary operators	Unary, Binary operators
8	01/09/18	31	overloading operators: new & delete	new & delete operators
9	06/09/18	32, 33	overloading Comparison	overloading Compars.
10	07/09/18	34	Data Conversion between objects & Basic Data types	Data Conversion
11	08/09/18	35	Arithmetic assignment operator	Arithmetic assign.
12	14/09/18	36	Test Tutorial	Test Tutorial and.
13	15/09/18	37, 38	Sample C++ Programs	C++ Programs
14	21/09/18	39	About C++ Compiler	About C++ Compiler
15	22/09/18	40, 41	Sample Programs on C++ Compiler	Sample Prgms.
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Lecture Detail

Month June - 18 / July Week _____

From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 18/06/2018	TYBSc. SYBSc	Computer Aided Graphics	The origin of computer Graphics Interactive Computer Graphics	Basics of Computer Graphics	Computer Graphics By Rogers
Tuesday 19/06/2018	T.Y.BSc.	Computer Aided Graphics	Interactive Computer Graphics	Types of Computer Graphics	—
Wednesday 20/06/2018 05/07/18-	TYBSc SYBSc	Computer Aided Graphics Programming in C++	Display Devices Random & Raster Devices Structure oriented vs oops	Display Devices comparative Anyalysis	—

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 05/07/2018	SYBSc	Programming in C++-I	Characteristics of oops	characteristics of oops	Mastering in C++ By K. Venugopal
Friday 06/07/2018	SYBSc	Programming in C++-I	C++ structure of C++	C++ structure	—
Saturday 06/07/2018 07/07/18	SYBSc	Programming in C++-I	KeyWords in C++	Keywords	—
Remarks					

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Lecture Detail

Month June - 18 / July

Week

From

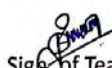
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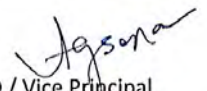
Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 26/06/2018	TYBSc	Computer Aided Graphics	Comparative Analysis of Display Devices	Demerits & Merits of each one	Computer Graphics By Rogers
Tuesday 27/06/2018	TYBSc	Computer Aided Graphics	Pixel Resolution, Aspect Ratio frame Buffer, Bandwidth	Basic Definitions	— —
Wednesday 27/06/2018	TYBSc SYBSc	Computer Aided Graphics Programming in C++-I	Differentiation between Computer Graphics Types	Comparative Analysis with an Example	— —

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 07/07/2018	SYBSc	Programming in C++-I	Data types in c++ & operators	Data types in C++ & operators	Mastering in C++ By K. Venugopal
Friday 12/07/2018	SYBSc	Programming in C++-I	Manipulators in C++	Manipulators	— —
Saturday 12/07/2018	SYBSc	Programming in C++-I	class objects	Introduction to class & objects	— —

Remarks


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Lecture Detail

Month July - 18 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 2/07/2018	TYBSc	Computer Aided Graphics	Applications of Computer Graphics	Enlist Applns of Computer Graphics	Computer Aided Graphics Rogers
Tuesday 3/07/2018	TYBSc	Computer Aided Graphics	Co-ordinate system	About Co-ordinate system	—
Wednesday 07/07/2018 13/07/18	TYBSc SYBSc	Computer Aided Graphics Programming in C++-I	Incremental system Access specifiers, class Members	About line drawing system Access specifiers and class Members	—

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 13/07/2018	SYBSc	Programming in C++-I	static data Member	Static Data Member	Mastering in C++ K. Venugopal
Friday 14/07/2018	SYBSc	Programming in C++-I	Member function : Input class definition	Member function Input class definition	—
Saturday 14/07/2018	SYBSc	Programming in C++-I	Creating objects	Creating objects	—
Remarks					
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Lecture Detail

Month July-18

Week _____

From _____

To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 04/07/2018	TYBSc	Computer Graphics	The simple DDA algorithm	DDA algorithm	Computer Graphics By Rogers
Tuesday 05/07/2018	TYBSc	Computer Graphics	The symmetrical DDA	symmetrical DDA algorithm	—
Wednesday 07/07/2018 19/07/18	TYBSc SYBSc	Computer Graphics Programming in CEE-I	Bresenham's Algorithm Transformation Principles & Matrix Representation Passing object as an argument	Bresenham's Algorithm	—

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 19/07/2018	SYBSc	Programming in C++-I	Army of objects	Army of objects	Mastering in C++ By R Venugopal
Friday 20/07/2018	SYBSc	Programming in C++-I	Memory Allocation	Memory allocation.	—
Saturday 20/07/2018	SYBSc	Programming in C++-I	Static data members	Static data members	—
Remarks					
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Lecture Detail

Month July-18 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 09/07/2018	TYBSc	Computer Aided Graphics	Transformation Principles Concatenations	Principles of Transform & Concatenations	Computer Graphics By Rogers
Tuesday 10/07/2018	TYBSc	Computer Aided Graphics	Transformation in Viewing	Viewing Transformation	—
Wednesday 11/07/2018 21/07/18	TYBSc SYBSc	Computer Aided Graphics Programming in C++-I	Example & Equation Transform in viewing Constructors	Viewing Transform Constructors	—

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 21/07/2018	SYBSc	Programming in C++-I	Types of Constructors	Types of Constructors	Mastering in C++ K. Venugopal
Friday 26/07/2018	SYBSc	Programming in C++-I	Destructors	Destructors	—
Saturday 1/201	TYBSc	Computer Aided Graphics	The perspective Transformation	Perspective transformation	Computer Graphics By Rogers
Remarks					
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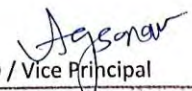


Lecture Detail

Month July-18 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 16/07/2018	TYBSC SYBSC	Computer Aided Graphics	Perspective transform Eq ⁿ an example	Perspective Transformation	— 11 —
		Programming in C++-I	Benefits & Apply of oops	Benefits of oops	
Tuesday 28/07/2018	SYBSC	Programming in C++-I	Concept of Pointer	Concept of Pointer.	
Wednesday 28/07/2018	SYBSC	Programming in C++-I	Pointer Operator	Pointer Operator.	

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 17/07/2018	TYBSC	Computer Aided Graphics	Cohen-Sutherland Algorithm	Line Algorithm	Computer Graphics Rogers.
Friday 17/07/2018	TYBSC	Computer Aided Graphics	Cohen-Sutherland Algorithm	Co-Su. Algorithm	— 11 —
Saturday 18/07/2018	TYBSC	Computer Aided Graphics	Mid-Point Subdivision	Mid-Point Subdivision Algo	— 11 —
05/08/18	SYBSC	Programming in C++-I	Pointer to Function	Pointer to fun ⁿ .	
Remarks					
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Lecture Detail

Month Aug-18 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 03/08/2018	SYBSC	Programming in C++-I	Example Pointer to fun	Pointer to function	Mastering in C++ H. Venugopal
Tuesday 04/08/2018	SYBSC	Programming in C++-I	Array of pointers to object	Array of pointers	— —
Wednesday 07/08/2018	TYBSC	Computer Aided Graphics	Mid-Point Algorithm an example	Algorithm - Mid-Point Subdivision	Computer Graphics by Rogers.

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 08/08/2018	TYBSC	Computer Aided Graphics	Polygon clipping	Clipping & Polygon clipping	— —
09/08/18	SYBSC	Programming in C++-I	Array of pointers	Array of pointers	
Friday 09/08/2018	SYBSC	Programming in C++-I	Pointer & object	Pointer & object	Mastering in C++ H. Venugopal
Saturday 09/08/2018	SYBSC	Programming in C++-I	Example: Pointer & object	Pointer & object	— —

Remarks

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Lecture Detail

Month Aug-18 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 24/07/2018	TYBSC	Computer Aided Graphics	About Clipping Types	Clipping	Computers Graphics by Rogers
Tuesday 24/07/2018	TYBSC	Computer Aided Graphics	Viewing Transformation	Viewing Transformation	—, —
Wednesday 3/08/2018	TYBSC SYBSC	Computer Aided Graphics Programming in C++-I	Viewing Transformation with an example Need of function	Viewing Transformation Need of function	— 11 —

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 10/08/2018	SYBSC	Programming in C++-I	Function Need Returning objects from functn.	Importance of function	Mastering in C++ by N. Venugopal
Friday 11/08/2018	SYBSC	Programming in C++-I	Inline functions	Inline function.	— 11 —
Saturday 11/08/2018	SYBSC	Programming in C++-I	Friend function	Friend Function	— 11 —
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Lecture Detail

Month Aug-18 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 06/08/2018	TYBSC	Computer Aided Graphics	The Windowing Transformation	Windowing Transfn.	Computer Graphics by Rogers.
Tuesday 06/08/2018	TYBSC	Computer Aided Graphics	Windowing & Eqns	Windowing Transformation	— —
Wednesday 07/08/2018	TYBSC SYBSC	Computer Aided Graphics Programming in C++-I	3-D Clipping Function with default arg.	3-D Clipping fn. with arg.	— —

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 16/08/2018	SYBSC	Programming in C++-I	function overloading	function Overloading	Mastering in C++ by K-Venugopal.
Friday 16/08/2018	SYBSC	Programming in C++-I	function overloading with arguments.	Overloading with arguments	— —
Saturday 18/08/2018	SYBSC	Programming in C++-I	Example: Function overloading with arguments	overloading with arguments	— —
Remarks					

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Date: _____



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Lecture Detail

Month Aug-18 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 13/08/2018	TYBSC	Computer Aided Graphics	Scan converting line Drawings	Scan Conversion.	Computer Graphics by Rogers.
Tuesday 14/08/2018	TYBSC	Computer Aided Graphics	Algorithm scan converting line Drawings.	Scan Conversion	-11-
Wednesday 14/08/2018	TYBSC	Computer Aided Graphics	Scan converting polygon coherence	Polygon coherence.	-11-
	SYBSC	Programming in c++-I			

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 23/08/2018	SYBSC	Programming in c++-I	Rules of operator overloading	operator overloading rules	Mastering in C++ by K. Venugopal
Friday 23/08/2018 24/08/2018	SYBSC	Programming in c++-I	Rules of operator overloading Features of oper. over.	Operator overloading rules	-11-
Saturday / /201					

Remarks

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Lecture Detail

Month Aug. & Sept. 18 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 20/08/2018	TYBSC	Computer Aided Graphics	Coherence algorithms	Scan Coherence algorithms	Computer graphics by Rogers
Tuesday 26/08/2018	TYBSC SYBSC	Computer Aided Graphics	(7x) Algorithms	Algorithm - (7x)	-
Wednesday 31/08/2018	SYBSC	Programming in C++ - I	Using Unary & binary operators	Unary & Binary operators	

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 31/08/2018	SYBSC	Programming in C++ - I	Binary operators	Binary operators	Mastering in C++ by K. Venugopal
Friday 09/09/2018	SYBSC	Programming in C++ - I	new operator	operator: new	-
Saturday 09/09/2018	SYBSC	Programming in C++ - I	Delete operator	operator: Delete	Mastering in C++ by K. Venugopal
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Lecture Detail

Month Aug - /sept- 18 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 21/08/2018	TYBSc	Computer Aided Graphics	object space & Image space Algorithms	Algorithms - object space - Image space	Computer Graphics by Rogers
Tuesday 21/08/2018	TYBSc SYBSc	Computer Aided Graphics Programming in C++ - I	The Depth Buffer Algorithms	Depth Buffer algorithm	-/-
Wednesday 27/08/2018	TYBSc SYBSc	Computer Aided Graphics Programming in C++ - I	Damocles Algorithms Overloading Comparison	Damocles algorithm Comparative Analysis	-/- Mastering C++ by H. Venugopal

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 06/09/2018 06/09/18	SYBSc	Programming in C++ - I	Data Conversion between Basic Data types	Data Conversion	Mastering C++ by R. Venugopal
Friday 08/09/2018	SYBSc	Programming in C++ - I	Arithmetic assignment operators	Assignment operator	-/-
Saturday / /201					
Remarks					
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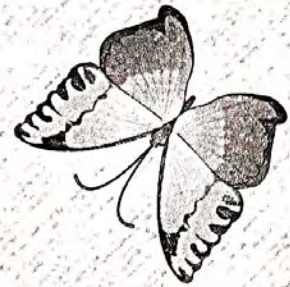


Practical Plan (Batch wise)

Sr. No.	Name of Experiment	Planned Date	Actual Date
Class: TYESC Subject: LAB ON Computer Aided Graphics & VB.NET			
Number of practical as per syllabus:		Actual Number of practical conducted:	Batch:
1	Draw Block Diagram of Computer, Display flag of India		
2	Draw Flowchart / DFD / E-R diagram		
3	Bresenham's line drawing algorithm, Circle		
4	DDA line drawing & Transformation		
5	Cohen Sutherland line clipping algorithm		
6	Write a VB .Net Program to demonstrate array		
7	Window based applications to find sum of three numbers		
8	→ → → to find factorial of given no.		
9	Window based Armstrong numbers, Exception Hand.		
10	VB .NET Constructor & Single inheritance		
11	Interface & Polymorphism Program in VB.NET		
12			
13			
14			
15			

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SEMESTER - II





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Lecture Planning (Teaching Plan)

Class: T.Y. B.Sc. Division _____

Subject: Internet Prog. With PHP

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	01/07/18	01	Introduction in PHP Features & Drawbacks of PHP	Basics of PHP
2	02/07/18	02	Versions of PHP Logical structure of PHP	Structure of PHP
3	04/07/18	03, 04	How PHP Works? PHP with HTML	Working of PHP
4	09/07/18	05	Flow Control statements Conditional statements	Flow Control stmts
5	10/07/18	06, 07	Looping statements Exit, Return, Die, include stmt.	Looping stmts
6	11/07/18	08	Introduction to Array Index vs Associative Array	Array with types
7	16/07/18	09	Multidimensional array Different array func ⁿ in PHP	Array - functions
8	17/07/18	10, 11	Traversing arrays, Sorting arrays Introduction to function	Sorting arrays
9	18/07/18	12	Recursive function Types of strings in PHP	String Types
10	20/07/18	13	Binding functions	Bind function
11	26/07/18	14	Comparing strings	String Comparison
12	27/07/18	15, 16	Manipulating & Searching strings	Manipulation & Searching
13	06/08/18	17	Regular Expressions	Regular Expressions
14	07/08/18	18, 19	Introduction & Benefits of OOPS	Benefits
15	08/08/18	20	Creating a class	Class Creation

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Lecture Planning (Teaching Plan)

Class: T. Y. B. Sc. Division _____ Subject: Internet Prog. with PHP

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	13/08/19	21,22	Creating an object, Adding a Method	Object creation & Methods
2	14/08/19	23,24	Adding a Properties, Visibility	Properties & Visibility
3	20/08/19	25,26	Inheritance (Extending a class) Constructors & Destructors	Inheritance
4	21/08/19	27,28	Abstract classes, final classes interfaces	Abstract, final & other classes
5	27/08/19 28/08/19	29,30 31	Exception Handling Serialization	Concept of exception handling
6	29/08/19	32,33	Introduction HTTP Basics	HTTP Basics
7	04/09/19	34,35	Get & Post Method, \$_GET & \$_POST	Get & Post method
8	05/09/19	36,37	Self Processing Pages, file uploads	Self Processing
9	10/09/19	38,39	Cookies, Sessions Combining Cookies & Sessions	Cookies & Sessions
10	11/09/19	40,41	Introduction to MySQL	MySQL
11	12/09/19	42,43	Interaction bet ⁿ PHP & MySQL PHP	PHP & MySQL
12	18/09/19 19/09/19	44,45 46,47	Error checking Execute DDL & DML stmts.	Error checking - DML stmts
13	24/09/19	48	Various PHP Pgms on Cookies	Cookies Pgms
14	25/09/19	49	PHP Pgms on Sessions	Session Pgms
15	26/09/19	50,51	Get & Post method pgms	Get & Post method.


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Lecture Planning (Teaching Plan)

Class: S.Y.B.Sc.

Division _____

Subject: Programming with C++-IT

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	06/12/18	01	Basics of function & its need	Need of function
2	07/12/18	02, 03	Returning objects from functions	object - function
3	08/12/18	04	types of functions	Types of fun ^c
4	13/12/18	05	functions with default arguments	fun ^c with default arg
5	14/12/18	06, 07	function overloading with example	function overlon. example
6	15/12/18	08	Scoping rules & features	Scoping Rules & features
7	20/12/18	09	introduction to operator overl.	operator overloading
8	21/12/18	10, 11	Rules of operator overloading	Rules of opern. over.
9	22/12/18	12	Unary & binary operators	Unary & Binary opern.
10	27/12/18	13	Comparison, Arithmetic Assign. operns	Different operators
11	28/12/18	14, 15	overloading new & delete operators	new & delete operators
12	29/12/18	16	Data Conversion bet ⁿ objects	Data Conversion
13	31/01/19	17	Concept of Pointer & Pointer operator	Pointer & fun ^c
14	04/01/19	18, 19	Pointer to function, Pointer & object	Pointer-to-fun ^c Pointer-to-object
15	10/01/19	20	Array of Pointer to an object	Array of Pointer

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Lecture Planning (Teaching Plan)

Class: _____ Division: _____ Subject: _____
Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	01/01/19	21, 22	Exception Handling Concept of try, throw, Catch	Exception Handling
2	17/01/19	23	Introduction to Inheritance Types of Inheritance	Types of Inheritance
3	18/01/19	24, 25	Derived class, Constructors Benefits of Inheritance	Constructors
4	19/01/19	26	Virtual Pointer, this pointer Abstract class, Pure virtual func	Pointer - Concepts
5	26/01/19	27, 28	Basics of templates, func template	Template func
6	31/01/19	29, 30	Class template, Parameters	Template Parameters
7	01/02/19	31, 32	Introduction to STL Components , Containers	STL Components
8	02/02/19	32, 33	Programs on STL	Programs on STL
9	07/02/19	34, 35	Template Programs	Template Prgms
10	08/02/19	36, 37	Programs on Template	Programs on Template
11	09/02/19	38	Programs on Inheritance	Inheritance Prgms.
12	14/02/19	39, 40	Programs on Exception Handling	Exception Handling Prgms
13	15/02/19	41, 42	this pointer & virtual pointer example	this pointer example
14	16/02/19	43, 44	Examples on Array of Pointer	Array example
15	21/02/19 22/02/19	45, 46 47, 48	Examples on operators Examples on Pointer	operators of Pointer example


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Lecture Planning (Teaching Plan)

Subject: Compiler Construction

Class: M.Sc

Division _____

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	20/12/18	01, 02	Compiler Basics Issues in Compilation	Compiler Basic
2	21/12/18	03	Phases of Compilation. The Analysis Model	Compiler phases
3	22/12/18	04	Synthesis Model Compiler Construction Tools	Synthesis Model
4	27/12/18	05, 06	Lexical Analyzer, Lex specification Detail	Lexical Analyzer
5	28/12/18	07	Classification of Parser Types	Parser types
6	29/12/18	08	Top-down Parser	Top-down - Types
7	31/1/19	09, 10	Bottom-up Parser	Bottom-up - Types
8	04/1/19	11	Parse Tree, operator Precedence Parsers	operator Precedence Parsers
9	10/1/19	12, 13	Error Reporting & Recovery	Error Reporting
10	11/1/19	14	Advantages & Disadvantages of operator precedence Parsing	Advantages & Disadv.
11	17/1/19	15, 16	Parsers. LR Parsing	LR Parsing
12	18/1/19	17	Simple LR Parser LR(0)	Simple LR(0)
13	19/1/19	18	LALR Parsers	CA LR Parsers
14	26/1/19	19	Canonical LR	Canonical LR
15	31/1/19	20, 21	Problems on LALR	Problems on CA LR

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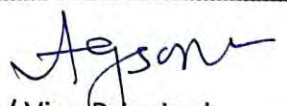


Lecture Planning (Teaching Plan)

Class: _____ Division: _____ Subject: _____
Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	01/02/19	22	Problems on FIRST & FOLLOW	FIRST & FOLLOW
2	02/02/19	23	Need for Intermediate Code Generation	Intermediate Code Gen.
3	07/02/19	24,25	Intermediate Forms	Intermediate Forms
4	08/02/19	26	Relish notations, Quadruples Triples	Types of Intermediate Codes
5	09/02/19	27	Indirect Triples & Blocks	Triples & Blocks
6	14/02/19	28,29	Flowing operation within block.	Code optimization
7	15/02/19	30	Strength Reduction, Dead Code	Code optimization Tech.
8	16/02/19	31	optimization with Basic Blocks	Code optimization Tech.
9	21/02/19	32,33	optimization techniques	Techniques to optimize code
10	22/02/19	34	classification of code optimi.	Code optimizah: classif.
11	23/02/19	35	Need for an optimization	importance of opti.
12	24/02/19	36,37	Methods of organizing ST	Symbol Table
13	01/03/19	38	Binary Search, Hashing Tech.	Binary & Hashing Tech.
14	04/03/19 07/03/19	39 40	Collision resolution Technique	Collision resolution Tech.
15				


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Attendance Sheet (Theory / Practical/Tutorial)

→ Extra

Roll No.	01/02/19	01/02/19	07/02/19	07/02/19	08/02/19	08/02/19	14/02/19	14/02/19	15/02/19	16/02/19	21/02/19	21/02/19	22/02/19	23/02/19	28/02/19	28/02/19	01/03/19	01/03/19	02/03/19	02/03/19	07/03/19	07/03/19	08/03/19	08/03/19	09/03/19	09/03/19	12/03/19	12/03/19
21	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
24	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
25	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
26	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
33	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
36	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
37	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
38	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
39	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
40	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
41	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
42	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
43	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
44	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
45	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
46	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P




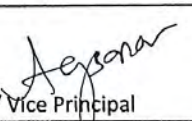
Lecture Detail

Month Dec - 18 Week _____

From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 02/12/2018	TYBSc	PHP Programming	Introduction to PHP	Basics of PHP	Computer Graphics / PHP Programming by Rasouk Jerdoff
Tuesday 03/12/2018	TYBSc ₂	PHP Programming	features & Drawbacks of PHP	Enlist features of PHP	---
Wednesday 04/12/2018	TYBSc ₂	PHP Programming	Versions of PHP	PHP Versions	---

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 06/12/2018	SYBSc	Programming in C++	Basics of functions	functions	Plattening in C++ by K. Venugopal
Friday 07/12/2018	SYBSc	Programming in C++	Need of functions Concept of objects	Need of functions & objects	Plattening in C++ by K. Venugopal
Saturday 08/12/2018					
Remarks					
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Lecture Detail

Month Dec-18 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 5/12/2018	TYBSc	PHP Programing	How PHP Works ?	working of PHP	PHP Programing by Rasmus Lerdorf
Tuesday 10/12/2018	TYBSc	PHP Programing	PHP with HTML	HTML & PHP	-/-
Wednesday 14/12/2018	TYBSc	PHP Programing	How Control statements	Control statements in PHP	-/-

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 13/12/2018					
Friday 14/12/2018	SYBSc	Programing in C++-II	Returning objects from functions	objects from func	Mastering in C++ K. Venugopal
Saturday 15/12/2018	SYBSc	Programing in C++-II	inline functions	inline functions	-/-
Remarks					
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Lecture Detail

Month Dec-18

Week _____

From _____

To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 16/12/2018	TYBSc	C++ Programming	Looping statements	Looping stmts.	C++ Programming Rasmus Lerdoff
	MSc	Compiler	Basics of Compiler	Compiler Basics	Compiler - Aho Ullman
Tuesday 17/12/2018	TYBSc	C++ Programming	Exit, Return, Die & include stmt	Various stmts	—
	MSc	Compiler	Issues in Compilation	Compilation issues	—
Wednesday 18/12/2018	TYBSc	C++ Programming	Introduction to Array	Concept of Array	—
	MSc	Compiler	Phases of Compilation & the Analysis model	Compilation Phases	—

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 20/12/2018	SYBSc	Programming in C++-II	Friend functions	friend functions	Mastering in C++ by K. Venugopal
Friday 21/12/2018	TYBSc	C++ Programming	index vs Associative Array	Associative Array	C++ Programming Rasmus Lerdoff
	SYBSc	Programming in C++-II	function with arguments	function with arguments	—
Saturday 22/12/2018					
Remarks	Re 18				

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Lecture Detail

Month Dec-18

Week

From

To

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 23/12/2018	TYBS ₂	RTP Programming	Multidimensional array	Multidimensional Array	RTP Programming Rasmus deroff
	PLSC	Compiler	Synthesis Model	Synthesis Mode	Compiler. Aho et al
Tuesday 24/12/2018	TYBS _C	RTP Programming	Different array functions in RTP	Array functions	-u
	PLSC	Compiler	Compiler Construction Parts	Compiler Construction Parts	-u
Wednesday 25/12/2018	TYBS ₂	RTP Programming	Traversing Arrays & Sorting Arrays	Sorting & Traversing arrays	-u
	PLSC	Compiler	Role of Lexical Analyzer	Lexical analysis	-u

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 27/12/2018	TYBS ₂	Programming in C++-II	function overloading with example	function overloading	Mastering in C++ by K. Venugopal
Friday 28/12/2018 28/12/18	TYBS ₂	Programming in C++-II	function overloading example	overloading with example	Mastering in C++ by K. Venugopal
Saturday 29/12/2018					
Remarks					

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Vice Principal
Sign. of HOD



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Lecture Detail

Month Jan-19


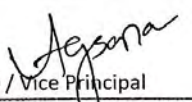
Week _____

From _____

To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 06/01/2019	TYBSc	RTP Programming	Recursive function	Recursive functions	RTP Programming Rasmus Lerdorf
	MSc	Compiler	Top-down Parser	Top-down Parser	Compiler - Aho & Ullman
Tuesday 07/01/2019	TYBSc	RTP Programming	Types of strings in RTP	String Types	-
	MSc	Compiler	Types of Top-down Parser	Types of Parser	-
Wednesday 08/01/2019	TYBSc	RTP Program	Binding functions	Binding functions	-
	MSc	Compiler	Bottom up Parsing	Shift-Reduce Parser	-

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 3/01/2019	SYBSc	Programming in C++ II	Scripting rules of features	Scripting rules of features	Mastering in C++ by A. Venugopal
Friday 4/01/2019	SYBSc	Programming in C++ II	About features of scripting	-	-
Saturday 5/01/2019	SYBSc	Programming in C++ II	Introduction to operator overloading	operator overloading	-
Remarks					
 Sign of Teacher			 Sign. of HOD / Vice Principal		



Lecture Detail

Month Jan-19



Week _____

From _____

To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 13/01/2019	TYBSC MSc	RHP Program Compiler	String Comparison functions Construction of Parse Tree	String func's Parse Tree	RHP Program by Rasmus Lerdorf - Aho Ullman
Tuesday 14/01/2019	TYBSC MSc	RHP Program Compiler	Detailing of string functions with programs operator Precedence Parsers	String func's operator Precedence	- -
Wednesday 1/201	MSc	Compiler	Error Reporting & Recovery	Error Reporting & Recovery	-

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 10/01/2019	SYBSC	Program in C++-II	operator overloading	operator overloading	Matching in C++ by R. Venugopal
Friday 11/01/2019	TYBSC SYBSC	RHP Program Program in C++-II	Manipulating & Searching strings Rules of operator overloading	Manipulation & search string Rules of o.v.	RHP Program by Rasmus Lerdorf -
Saturday 11/01/2019	SYBSC	Program in C++-II	operator overloading	operator overloading	-
Remarks	7/11/19				
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Lecture Detail

Month Jan-19

Week _____

From _____

To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 20/01/2019	TYBS _c	PHP Programming	Programs on string functions	String funct	PHP Programming by Rasmus L.
	1st ₂	Compiler	Advantages of operator Precedence Parsers	operator Precedence Parsers	Aho Ullman
Tuesday 21/01/2019	TYBS _c	PHP Programming	Regular Expressions	Regular expressions	-u
	1st ₂	Compiler	Disadvantages of operator Precedence Parsers	operator Precedence Parsers	-u
Wednesday 21/01/2019	TYBS ₂	PHP Programming	Program on Regular Exp.	Program on Regular exp.	-u
	1st ₂	Compiler	Parsers : LR Parsing	LR Parsing	-u

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 17/01/2019	SYBS ₂	Programming in C++ - II	Unary & Binary operators	Unary operators	Mastering in C++ R. Venugopal
Friday 18/01/2019	TYBS ₂	PHP Programming	Introduction & Benefits of oops	oops Benefits	
18/01/19	SYBS ₂	Programming in C++ - II	Binary operators	Binary operators	-u
Saturday 19/01/2019	SYBS ₂	Programming in C++ - II	Comparison operators	Comparison operators	-u

Remarks

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Lecture Detail

Month Jan-19


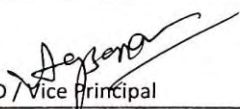
Week _____

From _____

To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 27/01/2019	TYBSc r/sz	PHP Program Compiler	Example on oops Concept Simple LR Parser	oops Concept LR Parser	PHP Program Rasmus Lerdorf cc: Afco vll man
Tuesday 28/01/2019	TYBSc r/sz	PHP Program Compiler	Creating a class Simple LR Parser (RE)	class Concept LR(1) Parser	u u
Wednesday / /201					

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 28/01/2019	SYBSc	Programming in C++-II	Arithmetic Assignment operators	Arithmetic operators	Mastering in C++ -By K. Venugopal
Friday / /201			//		
Saturday 31/01/2019	SYBSc	Programming in C++-II	Overloading : new operator	new operator	u
Remarks					
 Sign. of Teacher			 Sign. of HOD / Vice Principal		



Lecture Detail

Month Jan - /Feb 2019 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 29/01/2019	TYBSc	C++ Programming	Class example	Example on class	C++ Programming by Rasmus L.
	MSc	Compiler	LALR Parsers	LALR Parsers	Co: Aho Ullman
Tuesday 04/02/2019	TYBSc	C++ Programming	Creating an object	object details	
	MSc	Compiler	LALR Parsers	LALR Parser: Example	
Wednesday 05/02/2019	TYBSc	C++ Programming	Adding a member	Add member	
	MSc	Compiler	Canonical LR	Canonical LR	

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 07/02/2019	SYBSc	Programming in C++-II	Delete operators	Delete operators	Mastering C++ by K. Venugopal
Friday 08/02/2019	TYBSc	C++ Programming	Adding a Properties	Adding Properties	C++ Programming Rasmus Lerdorf
	SYBSc	Programming in C++-II	Data Conversion	Data Conversion	-
Saturday 09/02/2019	SYBSc	Programming in C++-II	Data Conversion between objects	Conversion between objects	-
Remarks					
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Lecture Detail

Month Feb. 2019 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 10/02/2019	TYBSc MSc	PHP Programming Compiler	visibility - mode Problems on CALR	Mode Visibility Problems on CALR	PHP Program Rasmus Lerdoff ee: Ateo ullmar
Tuesday 11/02/2019	TYBSc MSc	PHP Programming Compiler	Inheritance Examples on C++	Inheritance Examples	- -
Wednesday 12/02/2019	TYBSc MSc	PHP Programming Compiler	Constructors & Destructors Problems on PRST & Follow	Constructors & Destructors PRST & Follow	- -

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 7/02/2019	SYBSc	Programming in C++-II	Concept of Pointer	Pointer	Pointer in in C++ - K. Venugopal
Friday 8/02/2019 12/02/2019	TYBSc SYBSc	PHP Programming Programming in C++-II	Abstract class, final classes Pointer operator	Abstract & final classes Pointer operator	PHP Program - Lerdoff Rasmus -
Saturday 9/02/2019	SYBSc	Programming in C++-II	Pointer to function Pointer & object	Pointer to func ⁿ Pointer & object	-
Remarks					
 Sign. of Teacher	 Sign. of HOD / Vice Principal				



Lecture Detail

Month Feb - 2019

Week _____

From _____

To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 17/02/2019	TYBS2 MSc	PREP Program Computer	interface Need for intermediate code generation	Example interfaces Code Generation	PREP Program by Rasmus Lerdorf cc: Afco ulman
Tuesday 19/02/2019	TYBSC MSc	PREP Program Computer	Exception handling intermediate forms	Exception handling intermediate forms	-# -#
Wednesday 19/02/2019	TYBSC MSc	PREP Program Computer	Serialization Tuples Notation, Quadruples Triples	Serialization Reverse Notation ' Quadruples	-# -#

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 14/02/2019	SYBSC	Programming in C++-II	Array of Pointers	Array of Pointers	Mastering C++ - K. Venugopal
Friday 15/02/2019	TYBSC SYBS2	PREP Program Programming in C++-II	Introduction to HTTP Pointers to an object	HTTP Object of Pointer	PREP Program by Rasmus Lerdorf -#
Saturday 16/02/2019	SYBS2	Programming in C++-II	Exception Handling	About exceptions Handling Concept of try, throw & Catch	-#
Remarks					
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Lecture Detail

Month Feb. 2019 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 24/02/2019	TYBS2 MSc	PICP Programming Compiler	HTTP Basics Indirect Triples of Blocks	Basics of HTTP Triples of Blocks	PICP Programming by Rasmus L. Co.: Hea Ullman
Tuesday 25/02/2019	TYBS2 MSc	PICP Programming Compiler	Get & Post Method of Get & Post Triples with example	Get & Post Method of Get & Post Triples: Example	- -
Wednesday 26/02/2019	TYBS2 MSc	PICP Programming Compiler	Self Processing Pages, file uploads Strength Reduction, Dead Code Elements	Self Processing Pages, file uploads Strength Reduction	- -

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 16/02/2019	SYBS2	Programming in C++ - II	Introduction to inheritance	Inheritance	Mastering in C++ - K. Venugopal
Friday 27/02/2019	SYBS2 TYBS2	Programming in C++ - II PICP Programming	Cookies sessions Types of inheritance	Sessions of Cookies Types of inheritance	Prep By Rasmus L. C++ by K. Venugopal
Saturday 24/02/2019	SYBS2	Programming in C++ - II	Derived class Constructors Benefits of inheritance	Derived class Constructors Benefits - Inheritance	Mastering in C++ - By K. Venugopal
Remarks					

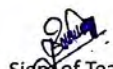
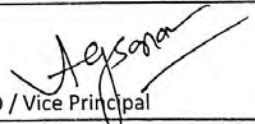


Lecture Detail

Month March / Feb. 2019 Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 09/02/2019	TYBSL	RTEP Programming	Sessions	Sessions	RTEP By R.L.
	17B2	Computer	Packing, Redundant oper ⁿ & i.	optimization with loop	ce: After class
Tuesday 06/02/2019	TYBS2	RTEP Programming	introduction to MYSQL	MYSAL Basis	-u
	17B2	Computer	Redundant oper ⁿ & Elimination	Redundant oper ⁿ	-u
Wednesday 06/02/2019	TYBS2	RTEP Programming	MYSAL Basis	MYSAL : Gramer	-u
	17B2	Computer	optimization with Basic blocks	Basic blocks	-u

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 02/02/2019	SYBS2	Programming in C++-II	Virtual Pointer, this Pointer Abstract class, Pure virtual fun ^c	Virtual Pointer Pure virtual fun ^c	Programming in C++ By K. Venugopal
Friday 02/02/2019	SYBSC	Programming in C++-II	Basis of templates function template class template Parameter	Basis of templates	-u
Saturday / /201					
Remarks					
 Sign of Teacher		 Sign. of HOD / Vice Principal			



Lecture Detail

Month March / Feb. 2019 Week _____

From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 12/03/2019	TYBSc MSc	RHP Programming Compiler	Interaction bet ⁿ RHP & PHYSOL Classification of Code optimization	RHP & PHYSOL Code optimization	RHP By R.L. ce: Ahoellman
Tuesday 15/03/2019	TYBSc MSc	RHP Programming Compiler	Comparative Analysis Need for Code optimization	Comparative analysis Need for optimization	- -
Wednesday 14/03/2019	TYBSc MSc	RHP Programming Compiler	Error checking organizing symbol table Binary Search, Hashing Technique.	Error checking organizing symbol table	- -

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 23/02/2019	SYBSc	Programming in C++-II	Introduction to STL	Basics of STL	Mastering C++ - By K. Venugopal
Friday 23/02/2019	TYBSc SYBSc	RHP Programming Programming in C++-II	Execute DDL & DML Statements Components of STL, Containers	DDL & DML Statements Container Concepts	RHP By Rasmus L. -
Saturday 24/02/2019	SYBSc	Programming in C++-II	Programs on STL - on Templates	STL & Template Programs	C++ tutorial - on line

Remarks

Sign. of Teacher

Sign. of HOD / Vice Principal



**THE SHIRPUR EDUCATION SOCIETY
R. C. PATEL EDUCATIONAL TRUST**



Record of Consultancy Work / R & D Project

Period	Details of Work	Amount	Funding Agency

Co-curricular and Extracurricular activity Record

Sr. No.	Name & Program	Month & Date	Group Teacher	Principal
1	Admission Counselling	15 th Jun. 15 th July		
2	Antiniquing Committee	15 th June - 25 th July		
3	Welcome function to P4, 12.	Aug. 18		
4	Blood Donation Camp	25 th Aug. 18		
5	Teachers Day Celebration	5 th Sept. 18		
6	Computer Science Quiz	Sept. 18		
7	Placement Activity	Nov./Dec. 18		
8	National Conference	Nov. - 18		
9	Poster Presentation	Feb - 19		
10	State level Seminar	Feb - 19		



THE SHIRPUR EDUCATION SOCIETY
R. C. PATEL EDUCATIONAL TRUST



Record of Seminars / Conferences / Summer - Winter Schools

Sr. No.	Nature of Program	Place	Date (S) & Duration	Organized by
01	State level Seminar Image Processing	Shirpur	02 March - 2019 (01) Day	R.C. Patel Aes Coll. Shirpur
02	State level Workshop	Shirpur	25. Feb. (01) Day	R.C. Patel Aes Coll. Shirpur
03	Workshop on Middle learning mgob.	R.C. Patel Institute of Pedagogy	01 - Day	IIT, Bombay
04	Workshop on Syllab mgob.	R.C. Patel Inst. of Pedagogy	01 - Day	IIT, Bombay
05	National Conference on Advanced Trends & Challenges in CS	Shirpur funded by Vrc.	19.20 Nov. 2018 (02) Days	R.C. Patel Aes College Shirpur



**THE SHIRPUR EDUCATION SOCIETY
R. C. PATEL EDUCATIONAL TRUST**



Record of Expert Talk / Research Papers Publish

Sr. No.	Nature of the Journal / Conference / Institute	Month / Year Vol. / Place	Title of Paper / Topic
01	Advanced Trends & challenges in CS	Nov. 2018 Shirpur	Studying clustering algorithms in Data mining using Weka
02	—	ISBN 978-93-88544-02-3	A Comparative study of cloud Computing & Grid Computing
03	—	—	Introduction: search threats on Threats with sql injection attack
04	—	—	Brain MRI image segmentation methods
05	—	—	Improve quality of Education in Rural Areas through multimedia systems
06	—	—	A survey on web usage mining & its APPLS
07	Emerging Trends in Computer & IT	— 25 th Jan. 19 P.O. Nateata College, Bhusavri	cloud Computing Collaborate with e-learning to Enhance Educational Strategy



THE SHIRPUR EDUCATION SOCIETY R. C. PATEL EDUCATIONAL TRUST



Record of University / DTE / UGC / AICTE Duties Performed

Sr. No.	Date	Nature of Assignmnet	Institute / University	Remark
1	Sept-18 2018-19	UG - Paper setting	University	
2	Sept-18/ Oct-18	P.G. Paper setting Meeting	University	
3	Nov./ Dec. 2018-19	Practical & Paper checking	Institute University	
4	Nov.-18	Jr. Supervisor External Sr. Supervisor	Institute University	
5	March/ April- 19	UG. Paper setting	University	
6	March/ April-19	PG - Paper setting	University	
7	March/ April-19	Practical chairman - Vg Practical chairman - Pg	University	
8	March/ April-19	CIC Committee member	University	
9	March/ April/ May -19	Ext. sr. Supervisor Flying squad	University	
10				



THE SHIRPUR EDUCATION SOCIETY
R. C. PATEL EDUCATIONAL TRUST



R. C. PATEL EDUCATIONAL TRUST

Local Guardian Record

No.	Name of Students	Class	Div.	Mobile No.	Student Sign.
1	Patil Rahul Dailag				
2	Patil Pallavi Ramesh	T.Y.B.Sc	A	8007253664	Patil
3	Borse Nikita Rajendra	T.Y.B.Sc	A	7038508209	Paculavi
4	Mali Harsteado Arun	T.Y.B.Sc	A	8390584439	Prililil
5	Rajput Resha Ravindra	T.Y.B.Sc	A	7028772598	Haral
6		T.Y.B.Sc	A	7066912565	Rajput
7					
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24					
25					



Minutes Of Meeting

Sr. No.	Date of Meeting	Minutes
1	17/06/2018	Distribution of work, Requirement list, Soft-Tech club activities, workload distribution, Result Analysis, Academic Calender, National Conference
2	28/11/2018	first- sem. Result Analysis, Abet placement activity, Abet industrial project, Soft-Tech club activities. Abet state level seminar, Preparation of
3		Exam. Time Table
4		
5		
6		
7		
8		
9		

Teacher Sign.


HOD Sign.

THE SHIRPUR EDUCATION SOCIETY
R. C. PATEL EDUCATIONAL TRUST

Certificate

This is to certify that Mr. / Mrs.

Bhanudas Suresh Panchasthai

Designation Asst. Prof. of R.C. Patel Arts, Commerce
& Science College, Shirpur

(Name of College)

has submitted faculty Diary for the academic year 2018-19

with all complete details.

Date: 30/04/2019


H.O.D.


Vice-Principal

Principal

R. C. PATEL INSTITUTE OF TECHNOLOGY

Near Nimzari Naka, Shahada Road, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 259600, Fax: 02563 - 259801,802 www.rcpit.ac.in



R. C. PATEL INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH

Near Karwand Naka, Shirpur 425 405 , Dist. Dhule, M.S.

Tel.: 02563 - 255189, 251809 Fax:02563-251808,

www.rcpatelpharmacy.co.in



H. R. PATEL INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH

Near Karwand Naka, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 257599 www.hrpatelpharmacy.co.in



R. C. PATEL ART, SCIENCE & COMMERCE COLLEGE

Near Karwand Naka, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 257328 www.rcpasc.ac.in



H. R. PATEL ART MAHILA COLLEGE

Opp. Telephone Exchange, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 255302 www.hrpmahila.ac.in



INSTITUTE OF MANAGEMENT RESEARCH & DEVELOPMENT

Near Karwand Naka, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 251028 www.rcpimrd.ac.in



R. C. PATEL COLLEGE OF EDUCATION

Near Karwand Naka, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 255301 www.rcpcoedn.org.in



R. C. PATEL JUNIOR COLLEGE OF EDUCATION

Near Karwand Naka, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 257639



SHIRPUR
EDUCATION SOCIETY



R. C. PATEL
EDUCATIONAL TRUST

Academic Year 2019 - 2020
Semester I & II
Department Computer Science
Class & Subject SY / TY BSc / MSc.
Faculty Name Rohanudax S. Pandeshekar

FACULTY ACADEMIC DIARY...

Bio data

Name	:Mr.Panchbhai Bhanudas Suresh
Qualification	: M.C.S., M.Phil.
Post	: Asst. Prof. : Dept. of Computer Science : R.C.Patel ACS College, Science
Teaching Experience	: 25 Years
Papers Published in International Journals	: 13
Papers Published in Proceedings of National Conferences	: 19
No. of Text Book Published	: 25
Conference Attended	: More than 30
Workshop Attended	: More than 30
Seminar Attended	: More than 20

Worked as Member and Chairman of various committees formed by K.B.C. N.M.U., Jalgaon.

Worked as a resource person for developing E-content: Indore DAVV.

Worked as a Coordinator for two days state level workshop, "Digital Image Processing" organized by Dept. of Computer Science, R.C.Patel ACS College, Dhule.

Worked as a Coordinator for one day National Conference on "Advanced Trends in Computer Science" organized by Dept. of Computer Science, R.C.Patel ACS College, Dhule.

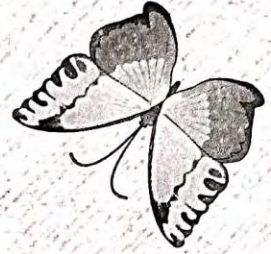
Worked as a Session in National Conference at AIMS Institute , Chalsigaon.

Awards : Awards

1. Rashtriya Vidya Gaurav Puraskar by Indian Solidarity Council.
2. Bharat Vidya Shiromani Award by International Business Council.
3. Jewel of India Award by International Institute of Education and Management.
4. Rashtriya Vidya Gaurav Gold Medal Award By International Institute of education & Management.
5. EET CRT Education Pro : Appreciation certificate and Trophy
6. ARCH of International Education Excellence Award By International Business

Faculty Members

Teaching Staff					
Sr. No.	Name	Qualification	Designation	Experience in years	
				UG	PG
01	Panchbhai Bhanudas Suresh	M.C.S.M.Phil CS)	Head of Department	24	18
02	Mone Sunil Dhondu	M.C.A. M.Phil.(CS), SET	Asst. Professor	22	18
03	Maheshwari Anand Jayantilal	M.Sc., SET	Asst. Professor	14	14
04	Chavan Dipak Eknath	M.Sc.	Asst. Professor	11	11
05	Patil Komal Purshottam	M.Sc.	Asst. Professor	02	02
06	Sonawane Megha Ramdas	M.Sc.	Asst. Professor	02	02
07	Rajput Mayuri Ravindra	M.Sc.	Asst. Professor	01	01
Supporting Staff					
01	Kulthe Yogesh Suresh	B.C.A.	Lab. Assistant	08	
02	Anis Beg Yusuf Beg	12 th	Peon	04	



SEMESTER - I





**THE SHIRPUR EDUCATION SOCIETY
R. C. PATEL EDUCATIONAL TRUST**



Academic Calendar

R.C. Patel Arts, Commerce and Science College, Shirpur

Department of Computer Science

Academic Calendar 2019-2020

Sr. No.	Name of Activity	Month and Year
1.	Admission Counseling for UG and PG: ARC for PG	15 th June to 30 th July-2019
2.	International Yoga Day Participation	21 st June 2019
3.	Welcome Function For PG students	05 th August 2019
4.	On line Registration committee ,Ant ragging and preparation of merit list	From June to 15 th August 2019
5.	Computer science Workshop/Seminar Committee	Month August/ September 2019
6.	Teachers Day Celebration	05 th September 2019
7.	Placement Cell Activity	20-25 th September 2019
8.	Internal Test UG and PG	14 th to 21 st September 2019
9.	Computer Science Quiz Competition/PPT Competition	2-4 th October 2019
10.	Internal Test PG (Second Internal)	16 th October 2019
11.	Guidelines and Inspiration to students and Teachers for Avishkar	25 to 28 th December 2019
12.	Project Guidelines and Recent Trends in Computer By Speaker	27 th January 2020
13.	Culture Program Activities	January 2020
14.	Guest/Speaker	January 2020
15.	Internal Test UG and PG	18 th to 28 th February 2020
16.	Poster Presentation Competition	6 th March 2020
17.	Internal Test PG (second Internal)	22 nd March to 26 th March 2020
18.	Send off for final year UG and PG students	March 2020
19.	Preparation and Guidelines for M.Sc. Project Work	From December to Till Examination
20.	Preparation of resume and placement cell activity	Through academic year
21.	Run certificate Course In Commerce For Textile Industry	Through academic year
22.	Conduct seminar on Various topics by PG students	Through academic year
23.	Preparation of online feedback data of Teachers by students	At the end of Academic year
24.	Assist to Nonteaching ,Teaching and students for S/w and H/w, Internet etc.	Through academic year

Mr.B.S. Panchbhai,

Department of Computer Science



THE SHIRPUR EDUCATION SOCIETY R. C. PATEL EDUCATIONAL TRUST



Time- Table

P. N.	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1							
2	CS-314 CG	CS-314 CG	CS-314 CG				
3							
4			CS-314 CG	CS-212 C++-I	CS-212 C++-I	CS-212 C++-I	
5					CS-212 C++-I		
6	CS-Lab-II TYBSc	CS-Lab-II TYBSc	CS-Lab-II TYBSc				
7							
8							

Time- Table

P. N.	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1							
2	CS-324 PHP	CS-324 PHP	CS-324 PHP	CS-203 C(C++)	CS-203 C(C++)	CS-203 C(C++)	
3				CS-203 C(C++)			
4			CS-324 PHP	CS-222 C++-II	CS-222 C++-II	CS-222 C++-II	
5					CS-222 C++-II		
6	CS-Lab-II TYBSc	CS-Lab-II TYBSc	CS-Lab-II TYBSc				
7							
8							



Calendar Planning of Faculty Activities

* Scope and objectives :

Computer science is concerned with the design modelling, analysis & applications of computer related systems. Its study at RCP, ACS provides education at the undergraduate & post graduate levels necessary to understand, design, implement & use the SW, HW of digital computers & digital systems.

The program provide comprehensive & integrated studies of subjects in computer science, Architecture, Computer networks, distributed computer systems, Programming languages & SW system information & data management, artificial intelligence, Computer science theory, Computational systems, biology & bioinformatics, Computer vision & graphics.



Course Objective / Course Outcome

- * Program outcomes : Analyze a Complex Computing problem and to apply Principles of Computing & other relevant disciplines to identify solutions
- 1. Design, implement and evaluate a Computing based solution to meet a given set of Computing requirements in the context of the program's discipline.
- 2. Communicate effectively in a variety of Professional contexts
- 3. Recognize Professional responsibilities and make informed judgments in Computing Practice based on legal and ethical Principles.
- 4. Function effectively as a member or leader of a team engaged in activities appropriate to the Program's discipline.
- 5. Apply Computer Science theory and software development fundamentals to produce Computing based solution.



Course Objective / Course Outcome

* Course outcomes

1. Apply algorithmic, mathematical and scientific reasoning to a variety of Computational Problems.
2. Design, Correctly implement and document solutions to significant Computational problems.
3. Analyze and Compare alternative solutions to Computing Problems.
4. Implement s/w systems that meet specified design and performance requirements.
5. Work effectively in teams to design and implement solutions to Computational problems.
6. Communicate effectively, both orally and in writing.
7. Recognize the Social and ethical responsibilities of a Professional working in the discipline.



THE SHIRPUR EDUCATION SOCIETY R. C. PATEL EDUCATIONAL TRUST



Course Objective / Course Outcome

North Maharashtra University, Jalgaon
T. Y. B. Sc. (Computer Science)
(w.e.f. June -2017)
Computer Aided Graphics (UG-CS-314)
Semester-I

Total lectures: 60
Total Marks: 90

Unit-1: Introduction to Graphics

[L:08 M:16]

- 1.1 The origin of computer graphics
- 1.2 Application of Computer Graphics How the interactive graphics display works.
- 1.3 Definitions: Pixel, Resolution, Interactive, Non interactive graphics, Aspect Ratio, Active graphics, Passive graphics,
- 1.4 How the interactive graphics display works.
- 1.5 Display types: Random Scan and Raster Scan

Unit-2: Line Drawing Technique

[L:06 M:12]

- 2.1 Co-ordinate Systems
- 2.2 The Simple DDA
- 2.3 The Symmetrical DDA
- 2.4 Bresenham's line drawing Algorithm
- 2.5 Bresenham's circle drawing Algorithm

Unit-3: Two Dimensional and Three Dimensional Transformations

[L:16 M:20]

- 3.1 Transformation principles
- 3.2 Concatenations
- 3.3 2D Matrix Representation
- 3.4 3D Transformations
- 3.5 Transformation in Viewing
- 3.6 The perspective Transformation

Unit-4: Clipping and Windowing

[L:14 M:16]

- 4.1 Define: Clipping, Window, view port
- 4.2 Cohen-Sutherland algorithm
- 4.3 Mid-point Subdivision
- 4.4 Polygon Clipping and flowchart to clip each polygon vertex and closing routine
- 4.5 The Windowing Transformation
- 4.6 3-D Clipping

Unit-5: Raster Graphics and Solid Area Scan-Conversion

[L:08 M:12]

- 5.1 Introduction
- 5.2 Scan Converting Line Drawings
- 5.3 Scan Converting Polygons
- 5.4 Coherence



**THE SHIRPUR EDUCATION SOCIETY
R. C. PATEL EDUCATIONAL TRUST**



Course Objective / Course Outcome

- 5.5 (YX) Algorithm
- 5.6 Priority: Painter's Algorithm

Unit-6: Hidden Surface Elimination

[L:08 M:12]

- 6.1 Object Space and Image Space Algorithms
- 6.2 The Depth Buffer Algorithm
- 6.3 Warnock's Algorithm

Reference:

1. William M. Newman and Robert F. Sproull, "Principles of Interactive Computer Graphics", ISBN : 9780074632932 (Second Edition), Tata-McGraw Hill Publication
2. Rogers, "Procedural Interactive Computer Graphics", ISBN- 978-070486775, McGraw Hill Book Company Ltd.
3. Mathematical Elements of Interactive C.

CS-DSC 2 C : COMP-212 : Programming in C++-I

Unit 1.IntroductiontoC++

(6 L,18M)

- 1.1Basics of C++, Structure of C++ Program
- 1.2 keywords in C++,Data types hierarchy in C++
- 1.3 Operators in C++, Scope resolution operator, Insertion and Extraction operator, New and Delete operators, reference operators.
- 1.4 Manipulators : endl, setw, setfill,set precision.

Unit 2. Classes and objects

(8 L, 18M)

- 2.1 Classes, object, Specifying a class, Access specifiers, Class members
- 2.2 Defining member functions: Inside and Outside the class definition
- 2.3 Creating objects.
- 2.4Array of objects , Pointer and object ,Array of pointer to object.

Unit 3 .Functions in C++

3.1 Basics of function and its need.

(6L,18M)

- 3.2 Functions Prototype.
- 3.3 Call by value, Call by reference with object.
- 3.4 Functions with default arguments.
- 3.5 Inline function.
- 3.6 friend function, friend class.

Unit 4 .Function Overloading

(4L,18M)

- 4.1 Concept of Polymorphism
- 4.2 Function overloading, function overloading with arguments
- 4.3 Scoping rules & features of function overloading.

Unit 5. Operator Overloading

(6 L,18M)

- 5.1 Introduction to operator overloading, rules of operator overloading
- 5.2 Operator overloading:
 - 5.2.1 Unary and binary operators,
 - 5.2.2 Comparison, arithmetic, assignment operator,
 - 5.2.3 Overloading new & delete operators

Reference Books:

1. Object oriented programming with C++, E Balgurusamy, ISBN-10: 9383286504; ISBN-13: 978-9383286508
2. Programming with C++ D Ravichandran, ISBN, 0070681899, 97800706
3. Programming in C++ by John H Hubbard, ISBN-10: 0071353461
4. Mastering C++ by K Venugopal, Rajkumar, T Ravishankar, ISBN-10/ASIN: 0074634542



THE SHIRPUR EDUCATION SOCIETY R. C. PATEL EDUCATIONAL TRUST



Course Objective / Course Outcome

Sem – II Paper – II

Theory: 30 Hours

CS-DSC 2 D : COMP-222 : Programming in C++-II

Unit 1. Constructors and Destructors (6 L, 20 M)

- 3.1 Concept of Constructor.
- 3.2 Types of Constructor: Default Constructor, Parameterized Constructor, Copy Constructor.
- 3.3 Overloaded Constructors in a class.
- 3.4 Constructor with default arguments.
- 3.5 Destructors.

Unit 2. Inheritance and Extending Classes (10L, 20M)

- 2.1 Introduction to Inheritance
- 2.2 Types of Inheritance
- 2.3 Derived Class Constructors
- 2.4 Benefits of inheritance in C++
- 2.5 this pointer.
- 2.6 Abstract class, pure virtual function.

Unit 3. Exception Handling (4L, 14M)

- 3.1 Concept of Exception Handling mechanism
- 3.2 Concept of try, throw and catch
- 3.3 Multiple catch statements
- 3.4 Standard Exception in C++

Unit 4. Templates & Introduction to Standard Template Library (4L, 18M)

- 4.1 Basic of templates, Function templates, Class templates
- 4.2 Templates with multiple parameter
- 4.3 Introduction to STL,
- 4.4 Components of STL, Containers (Sequence, Associative & Derived)

Unit 5. Working with Files (6 L, 18 M)

- 5.1 Introduction
- 5.2 Hierarchy of File Stream Classes.
- 5.3 Opening and Closing Files.
- 5.4 File modes
- 5.5 File Input/output with fstream class.

Reference Books:

- 1 Object oriented programming with C++, E Balgurusamy, ISBN-10: 9383286504; ISBN-13: 978-9383286508
- 2. Programming with C++ D Ravichandran, ISBN, 0070681899, 97800706
- 3. Programming in C++ by John H Hubbard, ISBN-10: 0071353461
- 4. Mastering C++ by K Venugopal, Rajkumar, T Ravishankar, ISBN-10/ASIN: 0074634542

North Maharashtra University, Jalgaon
T. Y. B. Sc. (Computer Science)
(w.e.f. June -2017)
UG-CS-323 Internet Programming using PHP
Semester II

Total lectures: 60

Total Marks: 90

Unit – 1 The Basics of PHP

L:16 M:24

- 1.1 Introduction to PHP
- 1.2 Features & Drawbacks of PHP, How PHP Works?
- 1.3 Version of PHP
- 1.4 Lexical Structure of PHP
 - 1.4.1 Structure & Syntax of PHP
 - 1.4.2 PHP with HTML
 - 1.4.3 Comments
 - 1.4.4 Data Types and Variables
 - 1.4.5 Operator
- 1.5 Flow Control Statements
 - 1.5.1 Conditional Statements
 - 1.5.2 Looping Statements
 - 1.5.3 Exit, Return, Die, Include and Require Statements

Unit – 2 Arrays, Function and String

L: 12 M: 20

- 2.1 Introduction to Array
 - 2.1.1 Index Vs Associative Array
 - 2.1.2 Multidimensional Array
 - 2.1.3 Different array function in PHP
 - 2.1.4 Traversing arrays, Sorting arrays
- 2.2 Introduction to Function
 - 2.2.1 Defining and Calling a function
 - 2.2.2 Scope of variables in function
 - 2.2.3 Function Parameters
 - 2.2.4 Returning Values from a function
 - 2.2.5 Recursive Functions
- 2.3 Types of strings in PHP
- 2.4 Printing functions
- 2.5 Comparing strings
- 2.6 Manipulating and Searching strings
- 2.7 Regular Expressions

Unit – 3 Object-Oriented PHP

L: 12 M: 16

- 3.1 Introduction and Benefits of OOPs
- 3.2 Creating a Class
- 3.3 Creating an Object
 - 3.3.1 Adding a Method
 - 3.3.2 Adding a Properties

- 3.3.3 Visibility (Public, Private and Protected)
- 3.4 Constructor and Destructors
- 3.5 Inheritance (Extending a class)
- 3.6 Abstract classes, Final classes
- 3.7 Interfaces
- 3.8 Exception handling
- 3.9 Serialization

Unit – 4 Web Techniques

L: 10 M: 14

- 4.1 Introduction
- 4.2 HTTP Basics
- 4.3 Processing Forms
 - 4.3.1 Methods (Get and Post Method)
 - 4.3.2 Parameters (\$_GET and \$_POST)
 - 4.3.3 Self Processing Pages
 - 4.3.4 File Uploads
- 4.4 Maintaining State
 - 4.4.1 Cookies
 - 4.4.2 Sessions
 - 4.4.3 Combining Cookies and Sessions

Unit – 5 PHP with MySQL

L: 10 M: 14

- 5.1 Introduction to MySQL
- 5.2 Interaction between PHP and MySQL, PHP , PHP functions to manipulate MySQL database
- 5.3 Error Checking
- 5.4 Execute DDL Statements
- 5.5 Execute DML Statements

References Books:

1. RasmusLerdorf and Kevin Tatroe, “ Programming PHP” ,ISBN: 978-1-56592-610-3, O'Reilly publication,2002
2. Dave W. Mercer, Allan Kent, “Beginning PHP 5” ,ISBN: 978-0-7645-5783-5, Wrox publication , July 2004.
3. W. Jason Gilmore , “Beginning PHP and MySQL”,ISBN: 978-1-4302-3115-8, 3rd edition, Apress Publication.
4. Ivan Bayross and Sharnam Shah , “PHP 5.1 for Beginners”, ISBN: 9788184040753 SPD Publication 2007

Websites:

1. <http://www.php.net.in>
2. <http://www.w3schools.com>
3. <http://www.tutorialpoints.com>

North Maharashtra University, Jalgaon
T. Y. B. Sc. (Computer Science)
Lab on - Internet Programming using PHP
UG-CS-LAB- 305

Semester-II

1. Design web pages using HTML that will contain online admission forms.
2. Write PHP scripts that demonstrate fundamentals PHP.
3. Write PHP script that will display grade based on criteria given below using the marks obtained in T.Y.Bsc. Examination.
 - a. Distinction (70 and above)
 - b. First Class (60 - 69)
 - c. Pass (40 - 59)
 - d. Fail (below 40)
4. Write a PHP script to demonstrate different String functions.
5. Write a PHP script to demonstrate array.
6. Write a PHP script to use Functions (Call by Value, Call by reference).
7. Write a PHP script to Demonstrate OOPS Concept in PHP.
8. Write a PHP script to demonstrate Exception Handling.
9. Write a PHP script to demonstrate Form Data Handling using Get and Post methods.
10. Design a database in MYSQL using PHP. Create table in database. Store, Update, Delete and Retrieve data from the table. Display the data from the table.
11. Write a PHP script to store, retrieve and delete cookies on your local machine.
12. Write a PHP script to store, retrieve and delete data using session variables.

North Maharashtra University, Jalgaon
T. Y. B. Sc. (Computer Science)
(w.e.f. June -2017)
Elective A - LAB on Web Programming using ASP.NET

(UG-CS-LAB-306 A)

Semester-II

1. Write an ASP .net program that demonstrate use of HTML Controls
2. Write an ASP .net program that demonstrate use of web controls.
3. Write an ASP .net that return the windows name of your computer and URI of the page that you are visiting.
4. Write an ASP .net program that demonstrate use of Validations Controls.
5. Write an ASP .net program that demonstrate use of Intrinsic Objects.
6. Write an ASP .net program that demonstrate Application and Session Scope Variables using Global.Asax
7. Write an ASP .net program that demonstrate Page directives.
8. Write an ASP .net page that used the connection object to connect the database and display information using datagrid Controls.

2. Stuart Jonathan Russell, Peter Norvig, "Artificial Intelligence – A modern approach", illustrated, 2010, ISBN:9780136042594, Prentice Hall.

CS-203 Compiler Construction

Unit-1 Introduction to Compilers

[M:10, L:8]

The structure of a compiler, Phases of Compilation: the Analysis – Synthesis Model. Applications of Compiler, Compiler Construction Tools.

Unit-2 Lexical Analysis

[M:15, L:12]

A simple approach to the design of lexical analyzers, Role of lexical analyzer ,tokens,patterns,lexeme,lexical errors ,Specification of tokens, Recognition of tokens, lexical analyzer generator LEX, Regular expressions, Finite automata, From regular expressions to finite automata, Minimizing the number of states of a DFA.

Unit-3 Syntax Analysis

[M:25, L:14]

Context-free grammars, Derivations and Parse trees, Ambiguous grammar, Role of parser, types of Parsers: Top down Parsing, Problems in top down parsing, recursive parsing, problems in recursive parsing, predictive parsing, error recovery in predictive parsing.(LL(1)), Bottom –up parsing, Shift-reduce parsing, Actions in Shift reduce parser, Operator-precedence parsing, its advantages and disadvantages, error recovery in operator precedence parser, LR parsers: Simple LR, LR (1), LALR parser.

Unit-4 Intermediate Code generation

[M:10, L:8]

Need of Intermediate code generation, three address code, Quadruples, triples, indirect triples and blocks

Unit 5 Code optimization

[M:15, L:10]

Need of code optimization, classification of code optimization techniques, and optimization within basic blocks:Folding, Redundant operation elimination. Within loop: Strength reduction, Dead code elimination, Moving operation within block, out of block.

Unit 6 Symbol Table Organization

[M:15, L:8]

Methods of organizing symbol table: Unsorted, sorted symbol table, Binary Search, hashing technique, its advantages and disadvantages, Collision resolution techniques: Rehashing, Chaining.

References:

1. Alfred V. Aho, Monica S. Lam, Ravi Sethi, Jeffrey D. Ullman, "Compiler Principle, Techniques and Tools", 2nd Edition illustrated, ISBN: 9781292024349, Pearson Addison Wesley.
2. William A. Barret, John D. Couch, "Compiler Construction Theory and Practice", Computer Science Series, 1979, ISBN: 978-0574213358, Asian Student Edition.
3. Dhamdhare D. M. , "Compiler Construction Principle and Practice", 2002, ISBN: 9780333904060, McMillan India.
4. David Gries, "Compiler Construction for Digital Computers", 1st Edition, 1971, ISBN: 9780471327769, Wiley.
5. David Galles, "Modern Compiler Design", 2nd Edition , 2009, ISBN: 9788131709412, Pearson Education.



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Lecture Planning (Teaching Plan)

Class: T. Y. B. Sc. Division _____ Subject: CAG
Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	01/07/19	01	Origin of Computer graphics	Computer Graphics
2	02/07/19	02	Application of CG	Appl ⁿ of CG
3	03/07/19	03, 04	How interactive graphics DW.	Working of Graphics
4	08/07/19	05	Basic Definitions	Definitions
5	09/07/19	06	Passive Vs Interactive	Compare & Contrast
6	10/07/19	07, 08	Random Vs Raster Scan	Comparison
7	15/07/19	09	Co-ordinate systems	Co-ordinate Systems
8	16/07/19	10	The Simple DDA	Simple DDA
9	17/07/19	11, 12	Symmetrical DDA	Symmetrical DDA
10	22/07/19	13	Bresenham's line d.A.	Bresenham's line
11	24/07/19	14, 15	Bresenham's circle D. A.	Bresenham's circle
12	30/07/19	16	Example of line drawing A.	Examples
13	31/07/19	17, 18	Transformation Principles	Transformations
14	05/08/19	19	Concatenations	Concatenations
15	06/08/19	20	2D Matrix representation	2D Matrix Re.

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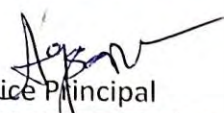
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Lecture Planning (Teaching Plan)

Class: <u>T.Y.B.Sc.</u> Division _____ Subject: <u>CAG</u>				
Lectures Required as per the Syllabus				
Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	07/08/19	21, 22	3D Transformations	3-D Transfor ^m
2	13/08/19	23	Transformation in Viewing	Viewing
3	14/08/19	24, 25	The Perspective Transformation	Perspective Transf. ^m
4	19/08/19	26	Define Clipping, Window, VP	Definitions
5	20/08/19	27	Cohen Sutherland algorithm	Cohen-Sutherland al.
6	21/08/19	28, 29	Mid-point subdivision	Mid-Point sub.
7	26/08/19	30	Polygon clipping & flood fill	Polygon clipping
8	27/08/19	31	Windowing Transformation	Windowing Trans ^m
9	28/08/19	32, 33	3-D clipping	3-D clipping
10	02/09/19	34	Introduction	Introduction
11	03/09/19	35	Scan Converting Line Drawings	Line Drawings
12	04/09/19	36, 37	Scan Converting Polygons	Polygons
13	09/09/19	38	Cohen	Cohen
14	11/09/19	39, 40	(Yx) Algorithm	Yx - Algo.
15	16/09/19	41	Priority: Painter's Algorithm	Painter's Algo.
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Lecture Planning (Teaching Plan)

Class: T.Y.B.Sc. Division _____ Subject: CAG

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	17/09/19	42	object space	object space
2	18/09/19	43,44	Image Space Algo.	Image space
3	20/09/19	45	object vs image space.	Comparison
4	24/09/19	46	Depth Buffer Algo.	Depth Buffer Algo.
5	25/09/19	47,48	Area Coherence Algo.	Area Coherence Algo.
6	30/09/19	49	Examples on 2-D Transl.	2-D Transl.
7	01/10/19	50,51	Examples on Simple DDA	Examples
8	07/10/19	52	Example on Cohen Sutherland	Examples
9	09/10/19	53,54	Test Tutorial on 1-3 chapl.	Test Tutorial
10	14/10/19	55	Question Paper Sample.	Question Paper
11	15/10/19	56	objective questions	objective
12	16/10/19	57,58	Test Tutorial on 4-6 chapl.	Test Tutorial
13	22/10/19	59	Question Paper solve	Question Paper
14	23/10/19	60	Random & Raster Graphics	Comparison
15			Detailing.	

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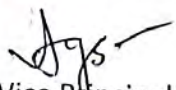
Lecture Planning (Teaching Plan)

Class: S.Y.B.Sc. Division _____ Subject: Programming in C++ I

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	4/07/19	01	Basics of C++	Basics of C++
2	5/07/19	02,03	Structure of C++ Program	Structure of C++
3	6/07/19	04	Keywords in C++	Keywords in C++
4	11/07/19	05	Data types in C++	Data types
5	12/07/19	06,07	operators in C++	operators in C++
6	13/07/19	08	Scope resolution operator	Scope resolution op.
7	18/07/19	09	Insertion & Extraction operator	Insertion, Extrac. op.
8	19/07/19	10,11	New & Delete operator	New, Delete, operator.
9	20/07/19	12	reference operators	reference operators
10	25/07/19	13	Manipulators: endl, setw	Manipulators
11	26/07/19	14,15	Manipulators: setfill, setprecision	Manipulators
12	27/07/19	16	Class - object	Class - object
13	01/08/19	17	Access specifiers	Access specifiers
14	02/08/19	18,19	Inside & outside the class def ⁿ	inside & outside
15	03/08/19	20	Creating objects	Creating objects


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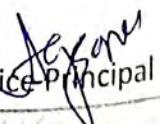
Lecture Planning (Teaching Plan)

Class: S.Y.B.Sc. Division _____ Subject: Programming in C++

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	08/08/19	21	Array of objects, Pointer	Array of objects
2	09/08/19	22,23	Basics of function	Basics
3	10/08/19	24	Call by value, Call by reference	Call by value
4	15/08/19	25	functions with default argu.	fun ^c with def.
5	16/08/19	26,27	Inline function.	inline fun ^c
6	22/08/19	28	friend function, friend class	friend, friend cl.
7	24/08/19	29	Concept of polymorphism	Polymorphism
8	29/08/19	30	function overloading	function overloading
9	30/08/19	31,32	function overloading with arg.	overloading with arg
10	31/08/19	33	Scoping rules & features	Scoping rules
11	05/09/19	34	Example function overloading	Example
12	06/09/19	35,36	Example inline, friend fun ^c	Example
13	07/09/19	37	operator overloading	operator overloading
14	12/09/19	38	Rules of operator overloading	Rules of o.o
15	13/09/19	39,40	Unary operators	many operators


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Lecture Planning (Teaching Plan)

Class: S.Y.B.Sc. Division _____ Subject: Programming in C++
Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	14/09/19	41	Binary operators	Binary operators
2	19/09/19	42	Comparison operators	Comparison operators
3	20/09/19	43,44	Arithmetic & Assignment oper.	Arithmetic & Assign.
4	21/09/19	45	Overloading operators	Overloading opera.
5	26/09/19	46	Example of overloading op.	Examples
6	27/09/19	47,48	overloading New op.	Overloading New op.
7	28/09/19	49	overloading Delete op.	Delete op.
8	03/10/19	50	Comparison fun ^c vs operators over	Comparison fun ^c
9	04/10/19	51,52	Example on Manipulators	Examples
10	05/10/19	53	Example on reference op.	Examples
11	10/10/19	54	Example on Scope res. op.	Examples
12	11/10/19	55,56	Example on Call by value.	Examples
13	12/10/19	57	Test Tutorial - 1 & 2	Test Tutorial
14	17/10/19	58	Objective type questions	Objective ques.
15	18/10/19	59,	Solve Question Paper 155.	Solve ques.

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Attendance Sheet (Theory / Practical/Tutorial)

Class: T. Y. B. Sc.

Subject: Internet Prog. Using PHP

Roll No.	Name of Student	Date	L.No.																			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Mali Purand S.		P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Mali Yogita D.		P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P
	marathe Gauri K.		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Nikam Ajay S.		P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
	Pawatil maiti G.		P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Patel Poasad R.		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A
	Patel Roshmi J.		P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
	Patil Ashwarya V.		P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
	Patil Bhanu A.		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
	Patil Chandrakant D.		P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P
	Patil Darshan A.		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Patil Harshada R.		P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Patil Jagruti R.		P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
	Patil Kajani N.		P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
	Patil Kavetan S.		P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
	Patil Nutan V.		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Patil Pallavi S.		P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
	Patil Rekha V.		P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P
	Patil Shubhangi B.		P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Patil Trupti K.		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
	Patil Yogita K.		P	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
	Pawar Ajay S.		P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P
	Pawar Dhanashri P.		P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
	Pawar Sagar A.		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Pawar Tejaswini R.		P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	A	P	P	P
	Rajput Divya P.		P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
	Rajput Neta Y.		P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
	Rajput Pooja V.		P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
	Rajput Priyanka U.		P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Sandane Dipak A.		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P



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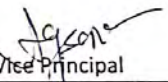


Lecture Detail

Month June Week Third From 17/6/19 To 22/6/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 17/06/2019			Admission Counselling : UG		
Tuesday 18/06/2019			Admission Committee Member UG		
Wednesday 19/06/2019			Admission Counselling : UG		

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 20/06/2019			Submission & Verification of Project : MSc.		
Friday 21/06/2019			Guidelines to PG Students about Project Viva.	Yoga day at R.C. Patel B. Pharmacy Ground	
Saturday 22/06/2019			Admission Counselling Anti Ragging Form		
Remarks					
 Sign. of Teacher		 Sign. of HOD / Vice Principal			



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Lecture Detail

Month June Week Fourth From 24/6/19 To 28/6/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 24/06/2019			Project Viva External Examiner at Chalisgaon		
Tuesday 25/06/2019			Project viva of P.G. Students Admission Committee		
Wednesday 26/06/2019			Casual leave		

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 27/06/2019			AntiRagging Committee Admission Committee Result Analysis : VG		
Friday 28/06/2019			AntiRagging Committee Admission Committee Result analysis : VG		
Saturday 29/06/2019			Preparation of workload Requirement of Asst. Prof. Department Requirement	Preparation of UG Time Table	
Remarks					
Sign. of Teacher			Sign. of HOD / Vice Principal		



Lecture Detail

Month July Week First From 11/7/19 To 6/7/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 01/07/2019	TYBSc	Computer Aided Graphics	Origin of Computer Graphics	Computer Graphics	Computer Aided Graphics By Newman
Tuesday 02/07/2019	TYBSc	CAG	Application of C++	Appls of C++	CAG By Newman
Wednesday 03/07/2019	TYBSc TYBSc	CAG CAG	How Interactive Computer Graphics Does Works?	Interactive Computer Graphics	CAG By Newman

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 04/07/2019	SYBSc	Programming in C++ - I	Basics of C++ - Basics of C++	Basics	Programming in C++ By K. Venugopal
Friday 05/07/2019	SYBSc SYBSc	C++ - I C++ - I	Structure of C++ Programs - structure of C++ Programs	Structure	Mastering in C++ By K. Venugopal
Saturday 06/07/2019	SYBSc	C++ - I	Keywords in C++ - Keywords in C++	Keywords	Mastering in C++ By K. Venugopal
Remarks					
Sign. of Teacher		Sign. of HOD / Vice Principal			



Lecture Detail

Month July Week Second From 8/7/19 To 13/7/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 08/07/2019	TYBSc	CAG	Basic Definitions	Definitions	CAG By Rogers
Tuesday 09/07/2019	TYBSc	CAG	Passive Vs interactive	Compare f Contrast	CAG By Rogers
Wednesday 10/07/2019	TYBSc TYBSc	CAG CAG	Random Vs Raster Scan	Comparison	CAG By Rogers

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 11/07/2019	SYBSc	C++ - I	Data types in C++	Data types	Mastering in C++ - I K. Venugopal
Friday 12/07/2019	SYBSc SYBSc	C++ - I C++ - I	operators in C++	operators	Programming in C++ - I Balgurushamy
Saturday 13/07/2019	SYBSc	C++ - I	Scope resolution operator	Scope resolution	Programming in C++ - I Balgurushamy
Remarks					
Sign. of Teacher		Sign. of HOD / Vice Principal			



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Lecture Detail

Month July Week Third From 15/7/19 To 20/7/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 15/07/2019	TYBSC	CAG	Co-ordinate systems	Co-ordinate systems	CAG By Rogers
Tuesday 16/07/2019	TYBSC	CAG	The Simple DDA	Simple DDA	CAG By Rogers
Wednesday 17/07/2019	TYBSC	CAG	Symmetrical DDA	Symmetrical DDA	CAG By Rogers
	TYBSC	CAG			

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 18/07/2019	SYBSC	C++ - I	Insertion & Extraction operators	insertion op. Extraction op.	Mastering in C++ - I K. Venugopal
Friday 19/07/2019	SYBSC	C++ - I	New & Delete operators	New op. Delete op.	-II K. Venugopal
Saturday 20/07/2019	SYBSC	C++ - I	Reference operators	Reference op.	-II K. Venugopal

Remarks

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Lecture Detail

Month July Week Fourth From 22/7/19 To 27/7/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 22/07/2019	TYBSc	CAG	Bresenham's line D.A.	Bresenham's line D.A.	CAG By Rogers
Tuesday 23/07/2019	TYBSc	CAG	C.L. Casual leave		CAG By Rogers
Wednesday 24/07/2019	TYBSc	CAG	Bresenham's Circle D.A.	Bresenham's Circle	CAG By Rogers
	TYBSc	CAG			

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 25/07/2019	SYBSc	C++ - I	Manipulators : endl, setw	Manipulators endl, setw.	Mastering id C++ K. Venugopal
Friday 26/07/2019	SYBSc	C++ - I	Manipulators - setfill, set Precision	Setfill, set Precision	— K. Venugopal
Saturday 27/07/2019	SYBSc	C++ - I	class - object	Class - object	— K. Venugopal

Remarks

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Lecture Detail

Month July - Aug Week Fourth / first From 29/7/19 To 3/8/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 29/07/2019	TYBSL	CAG	D.L.		CAG By Rogers
Tuesday 30/07/2019	TYBSL	CAG	Example of line drawing Algorithms	Line drawing algo.	--- By Rogers
Wednesday 31/07/2019	TYBSL	CAG	Transformation Principles	Transformation Principle	CAG By Rogers
	TYBSc	CAG			

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 01/08/2019	SYBS ₂	C++-I	Access specifiers	Access specifiers	Mastering in C++ K. Venugopal
Friday 02/08/2019	SYBS ₁	C++-I	Inside, outside the class def ⁿ	Inside outside class	--- K. Venugopal
Saturday 03/08/2019	SYBS ₁	C++-I	Creating objects	Creating objects	--- K. Venugopal

Remarks

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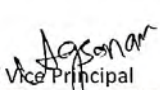


Lecture Detail

Month Aug. Week first From 5/8/19 To 10/10/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 05/08/2019	TYBSc	CAG	Concatenations	Concatenations	CAG By Rogers
Tuesday 06/08/2019	TYBSc	CAG	2-D Matrix representation	2-D Matrix representation	CAG By Rogers
Wednesday 07/08/2019	TYBSc	CAG	3-D Transformations	3-D Transfor ⁿ	CAG By Rogers
	TYBSc	CAG			

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 08/08/2019	SYBSc	C++-I	Array & objects, Pointer	Array - objects - Pointer	Mastering in C++ K. Venugopal
Friday 09/10/2019	SYBSc	C++-I	Basics of function	- Basics of fun ^c	- K. Venugopal
Saturday 10/10/2019	SYBSc	C++-I	Call by value Call by reference	Call by value & reference	- K. Venugopal
Remarks					
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Lecture Detail

Month Aug Week Second From 12/8/19 To 17/8/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 12/08/2019	TYBSc	CAG	holiday : Bakr id		CAG By Rogers
Tuesday 13/08/2019	TYBSc	CAG	Transformation in Viewing	Trans ^m in Viewing	CAG By Rogers
Wednesday 14/08/2019	TYBSc TYBSc	CAG CAG	The Perspective Transformation	Perspective Trans ^m	CAG By Rogers

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 15/08/2019	SYBSc	C++-I	function with default argument	Default argument	Mastering id C++ K. Venugopal
Friday 16/08/2019	SYBSc SYBSc	C++-I C++-I	inline function	inline fun ^c	— K. Venugopal
Saturday 17/08/2019	SYBSc	C++-I	Holiday : Parsi New Year		— K. Venugopal

Remarks

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Lecture Detail

Month Aug Week Third From 19/8/19 To 24/8/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 19/08/2019	TYBSC	CAG	Define clipping & windowing transformation	clipping windowing Tran ^m	CAG By Rogers
Tuesday 20/08/2019	TYBSC	CAG	Cohen Sutherland & Algorithms	Cohen Suth. Algo.	CAG By Rogers
Wednesday 21/08/2019	TYBSC	CAG	Mid-Point Subdivision	Mid-Point subdivision	CAG By Rogers

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 22/08/2019	SYBSC	C++-I	friend function, friend class	friend fun ^c friend class	Mastering in C++ K. Venugopal
Friday 23/08/2019	SYBSC	C++-I	D.W.		++ K. Venugopal
Saturday 24/08/2019	SYBSC	C++-I	Concept of Polymorphism	Polymorphism	++ K. Venugopal

Remarks

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Lecture Detail

Month Aug. Week Fourth From 26/8/19 To 31/8/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 26/08/2019	TYBSC	CAG	Polygon clipping of Hancock	Polygon clipping & Hancock	CAG By Rogers
Tuesday 27/08/2019	TYBSC	CAG	Windowing Transformation	Windowing Trans ⁿ	CAG By Rogers
Wednesday 28/08/2019	TYBSC	CAG	3-D Clipping	3-D Clipping	CAG By Rogers
	TYBSC	CAG			

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 29/08/2019	SYBSC	C++-I	Function overloading	Function overloading	Mastering in C++ K. Venugopal
Friday 30/08/2019	SYBSC	C++-I	Function overloading with argu.	arguments	-/- K. Venugopal
	SYBSC	C++-I			
Saturday 31/08/2019	SYBSC	C++-I	Scoping rules & features	Scoping rules & features	-/- K. Venugopal

Remarks

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Lecture Detail

Month Sept. Week first From 2/9/19 To 7/9/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 02/09/2019	TYBSC	CAG	Introduction - Scan Conversion	Scan Conversion	CAG By Rogers
Tuesday 03/09/2019	TYBSC	CAG	Scan Converting line Drawings	Scan Converting line Drawings	CAG By Rogers
Wednesday 04/09/2019	TYBSC	CAG	Scan Converting Polygons	Scan Converting Polygons	CAG By Rogers

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 05/09/2019	SYBSC	C++-I	Example of function overloading	functional overloading	Mastering in C++ By K. Venugopal
Friday 06/09/2019	SYBSC	C++-I	Explain inline, friend func	inline friend func	Mastering in C++ By K. Venugopal
Saturday 07/09/2019	SYBSC	C++-I	operator overloading	operator overloading	Mastering in C++ By K. Venugopal
Remarks					
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Lecture Detail

Month sept: Week Second From 9/9/19 To 14/9/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 09/09/2019	TYBSC	CAG	Cotterence	Cotterence	CAG By Rogers
Tuesday 10/09/2019	TYBSC	CAG	Holiday : Muharram		
Wednesday 11/09/2019	TYBSC TYBSC	CAG CAG	(7x) Algorithms	(7x) Algorithms	CAG By Rogers

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 12/09/2019	SYBSC	C++ - I	Rules of operator overloading	Rules of opera. over.	Mastering in C++ By K. Venugopal
Friday 13/09/2019	SYBSC SYBSC	C++ - I C++ - I	Unary operators	Unary operators	Mastering in C++ By K. Venugopal
Saturday 14/09/2019	SYBSC	C++ - I	Binary operators	Binary operators	Mastering in C++ By K. Venugopal
Remarks					

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Lecture Detail

Month Sept. Week Third From 16/9/19 To 21/9/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 16/09/2019	TYBSC	CAG	Priority Pointers Algorithms	Priority Pointers	CAG By Rogers
Tuesday 17/09/2019	TYBSC	CAG	object space	object space	CAG By Rogers
Wednesday 18/09/2019	TYBSC TYBSC	CAG CAG	Image space Algorithms	Image space Algo.	CAG By Rogers

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 19/09/2019	SYBSC	C++-I	Comparison operators	Comparison operator	Mastering id C++ K. Venugopal
Friday 20/09/2019	SYBSC SYBSC	C++-I C++-I	Arithmetic & Assignment operators	Assignment operators	Mastering id C++ K. Venugopal
Saturday 21/09/2019	SYBSC	C++-I	overloading operators	overloading operators	Mastering id C++ K. Venugopal
Remarks					
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Lecture Detail

Month Sept. Week Tenth From 23/9/19 To 28/9/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 23/09/2019	TYBSc	CAG	object space vs storage space	object space Image space	CAG By Rogers
Tuesday 24/09/2019	TYBSc	CAG	Depth Buffer Algorithms	Depth Buffer Algo	CAG By Rogers
Wednesday 25/09/2019	TYBSc	CAG	Area Coherence Algo.	Area Coherence Algo.	CAG By Rogers

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 26/09/2019	SYBSc	C++ - I	Example of overloading operator	overloading operator	Mastering in C++ - K. Venugopal
Friday 27/09/2019	SYBSc	C++ - I	overloading New operators	New operator	Mastering in C++ K. Venugopal
Saturday 28/09/2019	SYBSc	C++ - I	overloading Delete operator	Delete operator	Mastering in C++ K. Venugopal
Remarks					
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Practical Plan (Batch wise)

Class: **TYBSc** Subject: **Computer Aided Graphics & Internet Prog. PHP**
 Number of practical as per syllabus: _____ Actual Number of practical conducted: _____ Batch: **±**

Sr. No.	Name of Experiment	Planned Date	Actual Date
		29/7/19	29/7/19
	North Maharashtra University, Jalgaon T. Y. B. Sc. (Computer Science) (w.e.f. June -2017) UG-CS-LAB-302 LAB on Computer Aided Graphics & Programming in VB.NET	5/8/19	5/8/19
	Semester-I	12/8/19	12/8/19
	Computer Aided Graphics	19/8/19	19/8/19
	1. Draw the following pattern using standard graphics library: a. Block Diagram of Computer b. Display Flag of India c. Flow Chart Symbols / DFD Symbols / ER-Diagram Symbols	26/8/19	26/8/19
	2. Implement Bresenham's Line Drawing Algorithm	9/9/19	9/9/19
	3. Implement Bresenham's Circle Drawing Algorithm	16/9/19	16/9/19
	4. Implement DDA line Drawing Algorithm	23/9/19	23/9/19
	5. Implementing translation transformation on polygon	30/9/19	30/9/19
	6. Implementing scaling transformation on polygons	7/10/19	7/10/19
	7. Implementing rotation transformation on polygons	16/10/19	16/10/19
	8. Implement Cohen-Sutherland line clipping algorithm	23/10/19	23/10/19
	VB.NET	30/10/19	30/10/19
	1. Write a VB.Net Program to demonstrate Array.	6/11/19	6/11/19
	2. Write a Window based application to find maximum of three numbers.	16/11/19	16/11/19
	3. Write a Window based application to find factorial of a given numbers.	23/11/19	23/11/19
	4. Write a Window based application for Armstrong numbers.	30/11/19	30/11/19
	5. Write a VB.Net Program to demonstrate Exception Handling.	7/12/19	7/12/19
	6. Write a VB.Net Program to demonstrate Constructor.	16/12/19	16/12/19
	7. Write a VB.Net Program to demonstrate Single Inheritance.	23/12/19	23/12/19
	8. Write a VB.Net Program to demonstrate Interface.	30/12/19	30/12/19
	9. Write a VB.Net Program to demonstrate Polymorphism.	6/1/20	6/1/20
	10. Design GUI and write Code for the following in VB.Net (ADO.Net) without wizard: Accept employee details like emp_no, emp_name, emp_age and save these details in emp_TBL.	13/1/20	13/1/20
14		17/01/20	17/01/20
15			

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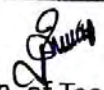
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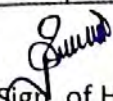


Practical Plan (Batch wise)

Class: **TYBSC** Subject: **CAG & Internet prog. PHP**
 Number of practical as per syllabus: _____ Actual Number of practical conducted: _____ Batch: **II**

Sr. No.	Name of Experiment	Planned Date	Actual Date
1		30/7/19	30/7/19
2		6/8/19	6/8/19
3		13/8/19	13/8/19
4		20/8/19	20/8/19
5		27/8/19	27/8/19
6		3/9/19	16/9/19
7		24/9/19	24/9/19
8		10/12/19	10/12/19
9		17/12/19	17/12/19
10		24/12/19	24/12/19
11		31/12/19	31/12/19
12		28/1/20	28/1/20
13		4/2/20	4/2/20
14		18/2/20	18/2/20
15			


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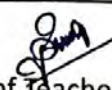
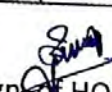
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Practical Plan (Batch wise)

Class: TYBS₂ Subject: CAR & Internet Basing PHP
 Number of practical as per syllabus: _____ Actual Number of practical conducted: _____ Batch: III

Sr. No.	Name of Experiment	Planned Date	Actual Date
1		3/18/19	3/18/19
2		7/18/19	7/18/19
3		14/18/19	14/18/19
4	→	21/18/19	21/18/19
5		28/18/19	28/18/19
6		11/9/19	11/9/19
7		18/9/19	18/9/19
8		24/9/19	24/9/19
9		30/9/19	30/9/19
10		11/12/19	11/12/19
11		29/12/19	29/12/19
12		01/01/20	01/01/20
13		12/01/20	12/01/20
14		29/01/20	29/01/20
15		03/02/20	03/02/20

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SEMESTER - II





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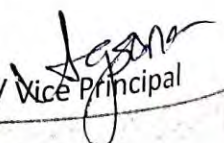
Lecture Planning (Teaching Plan)

Class: T.Y. B.Sc. Division _____ Subject: PHP

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	19/11/19	01	Introduction of PHP	PHP
2	20/11/19	02, 03	features, Drawbacks	features
3	25/11/19	04	How PHP Works & Version of PHP	Version of PHP
4	26/11/19	05	Lexical structure of PHP	Structure PHP
5	27/11/19	06, 07	structure & syntax of PHP	Syntax PHP
6	02/12/19	08	PHP with HTML	HTML
7	03/12/19	09	Comments	Comments
8	04/12/19	10, 11	Data types & Variables	DT & Variables
9	09/12/19	12	operator	operator
10	10/12/19	13	Flow Control Statements	Flow Controls
11	11/12/19	14, 15	Conditional Statements	Conditional Strts
12	16/12/19	16	Looping Statements	Looping Strts
13	17/12/19	17	Exit, Return, Die	Exit, Return, Die
14	18/12/19	18, 19	Include & Require Strts.	include & R. strts
15	24/12/19	20	Introduction to Array	Array


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Lecture Planning (Teaching Plan)

Class: T.Y. B. Sc. Division _____ Subject: PHP

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	30/12/19	21	Index Array	Index
2	31/12/19	22, 23	Associative Array	Associative Array
3	01/01/20	24	Multidimensional array	Multidimensional
4	06/01/20	25	Different array func ⁿ in PHP	func ⁿ in PHP
5	07/01/20	26	Traversing arrays, Sorting arrays	Sorting arrays
6	08/01/20	27, 28	Introduction to function	func ⁿ
7	20/01/20	29	Defining & Calling a func ⁿ	Calling a func ⁿ
8	21/01/20	30	Scope of Variables in func ⁿ	Variables in func ⁿ
9	22/01/20	31, 32	function Parameters	func Param.
10	24/01/20	33	Returning Value from a func ⁿ	values from func ⁿ
11	28/01/20	34	Recursive functions	Recursive func ⁿ
12	29/01/20	35, 36	Types of Strings in PHP	Strings
13	03/02/20	37	Printing functions	Printing func ⁿ
14	04/02/20	38	Comparing strings	Comparing strings
15	05/02/20	39, 40	Manipulating & Searching strings	Manipulating & S


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Lecture Planning (Teaching Plan)

Class: T.Y.B.Sc. Division _____ Subject: PHP

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	11/02/20	41, 42	Regular expressions	R.E.
2	12/02/20	43, 44	Introduction of Benefits of oops	Benefits of oops
3	24/02/20	45	Creating a class	creating a class
4	25/02/20	46	Adding a method	Adding a method
5	26/02/20	47, 48	Adding a properties	Adding a properties
6	02/03/20	49	Constructor & Destructors	Cons. & desb.
7	03/03/20	50	Inheritance, Abstract class	Inheritance, Ab
8	04/03/20	51, 52	Get & Post method	Get & Post
9	09/03/20	53	Cookies & Sessions	Cookies & sessions
10	11/03/20	54, 55	MySQL, DDL, DML.	MySQL, DDL, DML
11				
12				
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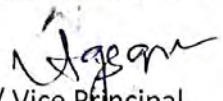


Lecture Planning (Teaching Plan)

Class: S.Y.B.Sc. Division _____ Subject: C++ -II
Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	21/11/19	01	Concept of Constructor	Constructor
2	22/11/19	02,03	Types of Constructor	Types of Constructor
3	23/11/19	04	Copy Constructor	Copy Constructor
4	28/11/19	05	Overloaded Constructors	Overloaded Cons.
5	29/11/19	06,07	Constructors with default arg.	Default argu.
6	30/11/19	08	Destructors	Destructors
7	05/12/20	09	Examples	Examples
8	06/12/20	10,11	Inheritance	Inheritance
9	07/12/20	12	Types of Inheritance	Types of Inheri.
10	12/12/20	13	Derived class Constructor	Derived C.C
11	13/12/20	14,15	Benefits	Benefits
12	14/12/20	16	this Pointer	this Pointer
13	19/12/20	17	Abstract class	Ac
14	20/12/20	18,19	Pure virtual function	Pure virtual func ⁿ
15	21/12/20	20	Examples	Examples


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Lecture Planning (Teaching Plan)

Class: S.Y. B.Sc. Division _____ Subject: C++ - II

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	26/12/20	21	Concept of Exception	Concept of Exce.
2	27/12/20	22,23	Concept of try, throw and catch	try, throw & Catch
3	28/12/20	24	Multiple Catch statements	Multiple Catch
4	01/01/20	22	Standard Exception in C++	Exception in C++
5	01/01/20	23,24	Examples	Examples
6	04/01/20	25	Basics of Template	Template
7	09/01/20	26	function Template	function T
8	10/01/20	27,28	Example	Example
9	11/01/20	29	Class template	Class T
10	18/01/20	30	Example	Example
11	23/01/20	31	Templates with multiple Para.	Temp. with Para.
12	24/01/20	32,33	Example	Example
13	25/01/20	34	Introduction to STL	STL
14	30/01/20	35	Components of STL	Components
15	31/01/20	36,37	Containers	Containers

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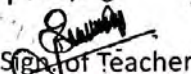
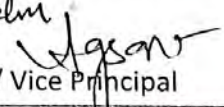
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Lecture Planning (Teaching Plan)

Class: <u>S.Y.B.Sc.</u> Division _____ Subject: <u>C++-II</u>				
Lectures Required as per the Syllabus				
Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	01/02/20	38	Example: Sequence, Associative provided	Examples
2	06/02/20	39	Introduction: file	Introduction
3	07/02/20	40, 41	Hierarchy of file stream classes	History
4	08/02/20	42	opening file	file open
5	13/02/20	43	closing file	close file
6	14/02/20	44, 45	Examples.	Examples
7	15/02/20	46	file modes	file modes
8	22/02/20	47	file input with fstream class	fstream class
9	27/02/20	48	file output with fstream class	output.
10	28/02/20	49, 50	Example	Example
11	29/02/20	51	Test Tutorial - 1 & 2	Test tutorial
12	05/03/20	52	objective type questions	objective
13	06/03/20	53, 54	Sample question Paper	Sample Q-P
14	12/03/20	55	Solve question Paper	Solve Q.P.
15	13/03/20	56, 57	C++ Programs on Template	C++ Prog. Temp
	14/03/20	58	C++ Program on Exception	Exception
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Lecture Planning (Teaching Plan)

Class: M.Sc. Division _____ Subject: CC

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	05/12/19	01, 02	Structure of Compiler	Compiler
2	06/12/19	03	Phases of Compilation	Phases
3	07/12/19	04	The Analysis & Synthesis	Synthesis
4	12/12/19	05, 06	Application of Compiler	Compiler
5	13/12/19	07	Compiler Construction Tools	Tools
6	14/12/19	08	Role of Lexical Analysis	Role of L.A.
7	19/12/19	09, 10	Tokens, Patterns, Lexeme	Patterns, Lexeme
8	20/12/19	12	Lexical generator LEX	Lexical Generator
9	21/12/19	13	R.E., FA, Minimizing FA	R.E.
10	26/12/19	14, 15	CFG, Derivation & Parse tree	CFG, PT
11	27/12/19	16	Ambiguous grammar, Role of Parser	AG, RP
12	28/12/19	17	Types of Parser	Types of Parser
13	02/01/20	18, 19	Topdown Parser, Recursive Parsing	Top-down Parser
14	03/02/20	20	Predictive Parsing, Error Recovery	PP, ER
15	04/04/20	21	Bottom-up Parsing	BTP.

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Lecture Planning (Teaching Plan)

Class: M.Sc. Division: _____ Subject: CC
Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	09/01/20	22,23	stuff - Reduce Parser	SRP
2	10/01/20	24	operator Precedence Parser	OOP
3	11/01/20	25	Advantages of disadv. O.P.P.	Profits & Demerits
4	18/01/20	26	LR Parsers	LR Parsers
5	23/01/20	27,28	Simple LR, (LR(1), LALR	Simple LR
6	24/01/20	29	Need of ICG.	Need of ICG
7	25/01/20	30	Three address Code	Three address Code
8	30/01/20	31,32	Quadruple, triples, IT	Quadruple, triples, IT
9	31/01/20	33	Need of Code optimization	Need of Code opt.
10	01/02/20	34	Folding within block,	folding
11	06/02/20	35,36	Dead Code, Strength Reduction	DC, SR
12	07/02/20	37	Moving operation within block	Block optimization
13	08/02/20	38	out of block	out of block
14	13/02/20	39,40	Symbol Table	ST
15	14/02/20	41	unsorted, sorted ST	US

15/02/20 42, 22/02, 27, 28, 29, 05, 06, 12, 13, 14/03
43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54.
ST Techniques

Sign. of Teacher

Sign. of HOD / Vice Principal



THE SHIRPUR EDUCATION SOCIETY R. C. PATEL EDUCATIONAL TRUST



Attendance Sheet (Theory / Practical/Tutorial)

Class: S.Y.B.Sc.

Subject: C++ Programming - II

Roll No.	Name of Student	Date	L.No.																				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	Girase Kavita S.		P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	
	Girase Punam B.		P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
	Gujar Pragati P.		P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
	Jadhav Jagruti R.		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
	Jadhav Pooja M.		P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Makale Tejaswini N.		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Mali Ravina M.		P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Patil Dhanashree B.		P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
	Patil Dipali B.		P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P
	Patil Tejaswini P.		A	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
	Patil Ankita A.		P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
	Patil Ashwini C.		P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P
	Patil Kamini M.		P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
	Patil Madhuri R.		P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
	Patil Megha M.		P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
	Pajpret Jayashree P.		P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P
	Pattad Umesh B.		P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
	Saundane Hemangi S.		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Sapakale Gaurav S.		P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
	Shimpi Anjali S.		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Sonawane Madhura N.		P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
	Yeshi Derayawi B.		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P
	Bilode Umesh M.		P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Nogare Gayatri G.		P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Patil Chandani S.		P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P	P
	Patil Pallavi S.		A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Pawara Poojita G.		P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Thekare Yashesh R.		P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
	Wagh Bhagyashree B.		P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
	Borase Yogesh K.		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P



THE SHIRPUR EDUCATION SOCIETY R. C. PATEL EDUCATIONAL TRUST



Attendance Sheet (Theory / Practical/Tutorial)

Class: S.Y.B.Sc

Subject: G+ Program - II

Roll No.	Name of Student	Date	L.No.																			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Chaudhari Ashwini D.		P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
	Dalal Siddhaya B.		P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
	Gottarao Pokini D.		P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Garav Bhagyashri S.		P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
	Jadhav Dattakau S.		P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A
	Johar Khumesh R.		P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
	Johar Tuskar K.		P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
	Mhavi Rajshree C.		P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Pardesthi Yogeesing G.		P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
	Patel Anisha K.		P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Patel Sapana R.		P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
	Patil Kajal A.		P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A
	Patil Prakash F.		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Patil Sayali P.		P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
	Patil Vijay D.		P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Pawar Manjusha V.		P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
	Pawar Yogita Prath.		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	Rajput Rohit M.		A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
	Sankhane Pranoti P.		P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
	Nikun Shubhangi S.		A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P
	Shewale Jyoti Y.		P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
	Sonar Bhupesh N.		A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P



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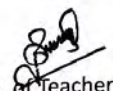
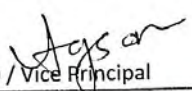


Lecture Detail

Month Nov. Week 19/11/19 From 23/11/2019 To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday / /2019					
Tuesday 19/11/2019	TYBSC	PHP	Introduction of PHP	Basic PHP	PHP BY RL
Wednesday 20/11/2019	TYBSC	PHP	D.L.		
	TYBSC	PHP			

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 21/11/2019	SYBSC	C++-II	Concept of Constructor	Constructor	Mastering in C++ K. Venugopal
Friday 22/11/2019	SYBSC	C++-II	Types of Constructor	Types of Constructor	Mastering in C++ K. Venugopal
Saturday 23/11/2019	SYBSC	C++-II	Copy Constructor	Copy Constructor	Mastering in C++ K. Venugopal
Remarks					
 Sign. of Teacher	 Sign. of HOD / Vice Principal				



THE SHIRPUR EDUCATION SOCIETY
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Lecture Detail

Month Nov. Week Fourth From 25/11/19 To 30/11/2019

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 25/11/2019	TYBSc	PHP	Features, Drawbacks How does PHP works?	features Working	PHP-By RL
Tuesday 26/11/2019	TYBSc	PHP	Lexical structure of PHP	lexical structure of PHP	PHP-By RL
Wednesday 27/11/2019	TYBSc TYBSc	PHP PHP	structure & syntax of PHP	Syntax of PHP Prog.	PHP-By RL

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 28/11/2019	SYBSc	C++-II	overloaded Constructors	overloaded Constructors	Mastering in C++ K. Venugopal
Friday 29/11/2019	SYBSc SYBSc	C++-II C++-II	Constructors with default arg.	Constructors with default arg.	Mastering in C++ K. Venugopal
Saturday 30/11/2019	SYBSc	C++-II	Destructors	Destructors	Mastering in C++ K. Venugopal
Remarks					
 Sign. of Teacher			 Sign. of HOD / Vice Principal		



THE SHIRPUR EDUCATION SOCIETY
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Lecture Detail

Month Dec. Week First From 02/12/2019 To 07/12/2019

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 02/12/2019	TYBSC	PHP	PHP with HTML	PHP with HTML	PHP By RL
Tuesday 03/12/2019	TYBSC	PHP	PHP Comments	PHP Comments	PHP By RL
Wednesday 04/12/2019	TYBSC TYBSC	PHP PHP	Data types & Variables	Data types & Variables	PHP By RL

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 05/12/2019	SYBSC MSc MSc	C++-II ce ce	Examples structure of Compiler	structure of Compiler	Mastering in C++ K. Venugopal
Friday 06/12/2019	SYBSC MSc SYBSC	C++-II ce C++-II	Inheritance Phases of Compilation	Phases of Compilation	Mastering in C++ cc. Athulman K. Venugopal
Saturday 07/12/2019	SYBSC MSc	C++-II ce	Types of Inheritance The Analysis & Synthesis	Types of Inheritance	Mastering in C++ K. Venugopal
Remarks	cc. Athulman				
Sign. of Teacher		Sign. of HOD / Vice Principal			


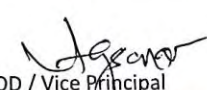


Lecture Detail

Month Dec. Week Second From 9/12/19 To 14/12/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 09/12/2019	TYBSC	PHP	operator	operator	PHP By RL
Tuesday 16/12/2019	TYBSC	PHP	Flow Control statement	Flow Control Stub	PHP By RL
Wednesday 11/12/2019	TYBSC TYBSC	PHP PHP	Conditional statement	Conditional Stub	PHP By RL

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 12/12/2019	SYBSC Msc Msc	C++-II cc cc	Derived class Constructors Application of Compiler	Derived Constructors Appl ⁿ Compiler	cc - Aho Ullman Mastering in C++ K. Venugopal
Friday 13/12/2019	SYBSC Msc SYBSC	C++-II cc C++-II	Benefits Compiler Construction Tools	Benefits C++ Tools	Mastering in C++ K. Venugopal
Saturday 14/12/2019	SYBSC Msc	C++-II cc	this Pointer Role of lexical Analysis	this Pointer Role of L.A.	Mastering in C++ K. Venugopal
Remarks	cc: Aho Ullman				
 Sign. of Teacher			 Sign. of HOD / Vice Principal		



**THE SHIRPUR EDUCATION SOCIETY
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Lecture Detail

Month Dec. Week Third From 16/12/19 To 21/12/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 16/12/2019	TYBSC	PHP	Looping statements	Looping Statements	PHP BY RL
Tuesday 17/12/2019	TYBSC	PHP	Exit, Return, Die	Exit, Return, Die.	PHP BY RL
Wednesday 18/12/2019	TYBSC TYBSC	PHP PHP	Include & Require stmt	Statements	PHP BY RL

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 19/12/2019	SYBSC Msc Msc	C++-II ce ce	Abstract class Tokens, Patterns, Lexeme	Abstract class Tokens, P. L.	Mastering ID C++ K. Venugopal
Friday 20/12/2019	SYBSC Msc SYBSC	C++-II ce C++-II	Pure virtual function Lexical Generator LEX	Pure virtual fun ^c Lexical Generator	Mastering ID C++ CC: Aho Ulman K. Venugopal
Saturday 21/12/2019	SYBSC Msc	C++-II ce	Examples R.E., FA, Minimizing FA	Examples R.E., PA Minimizing FA	Mastering ID C++ K. Venugopal CC: Aho Ulman
Remarks					
 Sign. of Teacher			 Sign. of HOD / Vice Principal		



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Lecture Detail

Month Dec Week Fourth From 23/12/19 To 28/12/19

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 23/12/2019	TYBSC	PHP	D.L.		
Tuesday 24/12/2019	TYBSC	PHP	Introduction to Array	Array	PHP BY RL
Wednesday 25/12/2019	TYBSC TYBSC	PHP PHP	holiday : Christmas		

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 26/12/2019	SYBSC MSC MSC	C++-II CC CC	Concept of Exception CFG, Derivation & Parse Tree	Exception CFG, Derivation PT	Mastering in C++ K. Venugopal
Friday 27/12/2019	SYBSC MSC SYBSC	C++-II CC C++-II	Concept of try, throw & Catch Ambiguous grammar, Role of Parser	Try, throw & Catch Amb. Gramu. Role of Parser	Mastering in C++ CC: Aho Ullman K. Venugopal
Saturday 28/12/2019	SYBSC MSC	C++-II CC	Multiple Catch Statements Types of Parser	Multiple Catch Statements Type of Parser	Mastering in C++ K. Venugopal
Remarks	CC: Aho Ullman				

Sign. of Teacher

Sign. of HOD / Vice Principal



THE SHIRPUR EDUCATION SOCIETY
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Lecture Detail

Month Dec - Jan Week First From 30/12/19 To 4/1/20

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 30/12/2019	TYBSC	PHP	Index Array	Index Array	PHP BY RL
Tuesday 31/12/2019	TYBSC	PHP	Associative Array	Associative Array	PHP BY RL
Wednesday 01/01/2020	TYBSC TYBSC	PHP PHP	Multidimensional Array	Multidimensional array	PHP BY RL

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 02/01/2020	SYBSC MSc MSc	C++-II CC CC	Standard Exception in C++ Top-down Parser, Recursive Par.	Exception in C++ Top-down Parser	Mastering in C++ K. Venugopal
Friday 03/01/2020	SYBSC MSc SYBSC	C++-II CC C++-II	Examples Predictive Parser, Error Recovery	Examples Predictive Parser error Recovery	Mastering in C++ CC: Aho Ulman K. Venugopal
Saturday 04/01/2020	SYBSC MSc	C++-II CC	Basics of Template Bottom-up Parsing	Basics of Template Bottom-up Parsing	Mastering in C++ K. Venugopal
Remarks	cc: Aho Ulman				

Sign. of Teacher

Sign. of HOD / Vice Principal

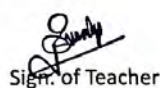
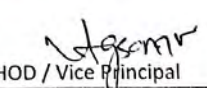


Lecture Detail

Month Dec / Jan Week Second From 6/1/20 To 11/1/20

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 06/01/2020	TyESL	PHP	Different array fun ^c in PHP	Array fun ^c in PHP	PHP BY RL
Tuesday 07/01/2020	TyESL	PHP	Holiday:		
Wednesday 08/01/2020	TyBSc TyBSc	PHP PHP	Introduction to function	Introduction to fun ^c	PHP BY RL

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 09/01/2020	SyBSc MSc MSc	C++-II CC CC	Function Template Shift-Reduce Parser	fun ^c Template Shift-Reduce Parser	Mastering in C++ K. Venugopal
Friday 10/01/2020	SyBSc MSc SyBSc	C++-II CC C++-II	Example operator Precedence Parser	Example operator Preceden. Parser	Mastering in C++ K. Venugopal
Saturday 11/01/2020	SyBSc MSc	C++-II CC	Class Template Advantages & disadvantages O.P.P.	Class Template Advantages & Dis. opp	Mastering in C++ K. Venugopal
Remarks	cc: Astro Utman				
 Sign. of Teacher			 Sign. of HOD / Vice Principal		



THE SHIRPUR EDUCATION SOCIETY
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Lecture Detail

Month JAN Week 8th From 13/01/20 To 13/01/20

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 13/01/2020	TYBSC	PIPP	/		
Tuesday 14/01/2020	TYBSC	PIPP	D.L.		
Wednesday 15/01/2020	TYBSC	PIPP	/		
	TYBSC	PIPP			

Locturo Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 16/01/2020	SYBSC MSc MSc	CPT-II CC CC	/ FDP at indore		
Friday 17/01/2020	SYBSC MSc SYBSC	CPT-II CC CPT-II	D.L.		
Saturday 18/01/2020	SYBSC MSc	CPT-II CC	Example CR Papers	Examples CR Papers	Plastering in CPT R. Venugopal
Remarks					CC: Aro Ullman
 Sign of Teacher			 Sign. of HOD / Vice Principal		



**THE SHIRPUR EDUCATION SOCIETY
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Lecture Detail

Month Jan Week fourth From 20/1/20 To 25/1/20

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 20/01/2020	TYBSC	PHP	Defining & Calling func	Defining & Calling func	PHP By RL
Tuesday 21/01/2020	TYBS2	PHP	Scope of Variables in func	Scope of Variable in func	PHP BY RL
Wednesday 22/01/2020	TYBSC TYBS2	PHP PHP	function Parameter	function Parameter	PHP BY RL

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 23/01/2020	SyBS2 MSc MSc	C++-II CC CC	Templates with multiple Parameter Simple CR, CRO, LAR	Template with multiple Para. CR, CRO, LAR	Mastering in C++ K. Venugopal
Friday 24/01/2020	SyBS2 MSc SyBS2	C++-II CC C++-II	Example Need of ICR	Example Need of ICR	Mastering in C++ CC: Aho Ullman K. Venugopal
Saturday 25/01/2020	SyBS2 MSc	C++-II CC	D.L.		

Remarks

Sign. of Teacher

Sign. of HOD / Vice Principal



Lecture Detail

Month Jan. Week fourth From 27/01/20 To 01/02/20

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 27/01/2020	TyBS ₂	PHP	Returning values from a func ^a	Returning values from a func ^c	PHP BY RL
Tuesday 28/01/2020	TyBS ₂	PHP	Recursive functions	Recursive func ^c	PHP BY RL
Wednesday 29/01/2020	TyBS ₂	PHP	Types of strings in PHP	Types of strings in PHP	PHP BY RL
	TyBS ₂	PHP			

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 30/01/2020	SyBS ₂ M/SC M/SC	C++-II CC CC	Introduction to STL Components of STL Three address Code Quadruple, triples, IT	STL, Components of STL Three address Code Quadruple, IT	Mastering to C++ K. Venugopal
Friday 31/01/2020	SyBS ₂ M/SC SyBS ₂	C++-II CC C++-II	Containers Need of Code optimization	Containers Need of Code optimization	Mastering to C++ K. Venugopal
Saturday 01/02/2020	SyBS ₂ M/SC	C++-II CC	Example: Sequence, Associative, & Derived folding, within loop	Examples: Sequence, Associative, Derived folding, loop	Mastering to C++ K. Venugopal
Remarks					CC: Atho ulman
 Sign. of Teacher		 Sign. of HOD / Vice Principal			



Lecture Detail

Month Feb Week first From 31/2/20 To 8/2/20

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 03/02/2020	TYBS ₂	PFP	Printing functions	Printing func	PFP BY RL
Tuesday 04/02/2020	TYBS ₂	PFP	Computing strings	Computing strings	PFP BY RL
Wednesday 05/02/2020	TYBS ₂	PFP	Manipulating & searching strings	Manipulating & searching strings	PFP BY RL

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 06/02/2020	SyBS ₂ MSc MSc	C++-II CC CC	introduction: file Dead Code, Strongly Reduction	file Dead Code, str. Reduction	Plastering ID C++ K. Venugopal
Friday 07/02/2020	SyBS ₂ MSc SyBS ₂	C++-II CC C++-II	hierarchy of file streams Classes Closing operation within block within loop	file streams Classes	Plastering ID C++ CC: Aho Ulman K. Venugopal
Saturday 08/02/2020	SyBS ₂ MSc	C++-II CC	opening file out of block	opening file out of block	Plastering ID C++ K. Venugopal
Remarks	CC: Aho Ulman				
 Sign. of Teacher			 Sign. of HOD / Vice Principal		



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Lecture Detail

Month Feb. Week second From 10/02/20 To 15/02/20

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 10/02/2020	TYBSc	PHP	D.L.		
Tuesday 11/02/2020	TYBSc	PHP	Regular Expressions	Regular expressions	PHP B7 RL
Wednesday 12/02/2020	TYBSc	PHP	Introduction of Benefits of oops	Benefits of oops	PHP B7 RL
	TYBSc	PHP			

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 13/02/2020	SyBSc MSc MSc	C++-II CC CC	Closing file Symbol table Google class	file close ST Ge-online	Mastering ID C++ K. Venugopal
Friday 14/02/2020	SyBSc MSc SyBSc	C++-II CC C++-II	Examples inserted, sorted ST	Examples online	Mastering in C++ K. Venugopal
Saturday 15/02/2020	SyBSc MSc	C++-II CC	file modes Google class	file modes online	Mastering in C++ K. Venugopal

CC: Aho ullman

Sign. of Teacher

Sign. of HOD / Vice Principal



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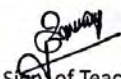



Lecture Detail

Month Feb Week Third From 17/02/20 To 22/02/20

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 17/02/2020	TYBS ₂	PFP	D.L.		
Tuesday 18/02/2020	TYBS ₂	PFP	D.L.		
Wednesday 19/02/2020	TYBS ₂	PFP	holiday: Shivaji Jayanti		

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 20/02/2020	SyBS ₂	C++-II			
	Psc	cc	C.L. : Casual leave		
	Psc	cc			
Friday 21/02/2020	SyBS ₂	C++-II			
	Psc	cc	holiday: Maha Shivaratri		
	SyBS ₂	C++-II			
Saturday 22/02/2020	SyBS ₂	C++-II	file input with ostream class	file stream	Mastering in C++
	MBC	cc	Google class	active	R. Venugopal cc - Aho ullozan
Remarks					
 Sign. of Teacher			 Sign. of HOD / Vice Principal		



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Lecture Detail

Month Feb. Week Fourth From 24/02/20 To 28/02/20

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 24/02/2020	TYBS ₂	PHP	Creating a class	Creating class	PHP BY RL
Tuesday 25/02/2020	TYBS ₂	PHP	Adding a method	Method	PHP BY RL
Wednesday 26/02/2020	TYBS ₂	PHP	Adding a Interfaces	Interfaces	PHP BY RL
	TYBS ₂	PHP			

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 27/02/2020	SyBS ₂	C++-II	file output with ostream class	file output stream	Mastering in C++
	MSc	cc	Google class	online	K. Venugopal
	MSc	cc			
Friday 28/02/2020	SyBS ₂	C++-II	Example	Example	Mastering in C++
	MSc	ec	Google class	online	K. Venugopal
	SyBS ₂	C++-II			
Saturday 29/02/2020	SyBS ₂	C++-II	Test Tutorial - 1 & 2	Test Tutorial	CC: Afro Ullman
	MSc	ec	Google class	online	Mastering in C++ K. Venugopal
Remarks					
 Sign. of Teacher			 Sign. of HOD / Vice Principal		



List of Questions for Credit Exams/Test/Sessional

Computer Aided Graphics UG - CS - 314

Q.1. Attempt the following - <5>

1. The smallest addressable screen element is called

- i) Pixel ii) Graph iii) Voltage level iv) Color info

2. The no. of Pixel solved the frame buffer of a graphic

SN is known as

- i) depth ii) height iii) Pixel iv) resolution

3. The refresh rate below which a picture flicker is

- i) 25 ii) 35 iii) 30 iv) 45

4. Random Scan system mainly design for

- i) realistic shade screen ii) for effect iii) line drawing appl^o
iv) only (ii) & (iii)

5. The primary output device in a graphic system is

- i) scanner ii) video monitor iii) printer iv) None.

Q.2. Attempt any three - <12>

1. Explain Bresenham's line drawing algorithm.

2. Differentiate between Passive Vs Interactive Clr.

3. Explain Sample DDA line drawing algorithm.

4. What is windowing? viewing transformation.

Q.3. Attempt any two - <8>

1. Explain Cohen-Sutherland line clipping algo.

2. Compare Contrast random Vs raster display device

3. Write a short note on 2-D transformation.



List of Questions for Credit Exams/Test/Sessional

Programming in C++-I No. CS-312

- Q.1 Attempt any three of the following - (12)
1. Enlist and explain clearly of ops in brief
 2. What is scope resolution operator?
 3. Define the terms Constructor & Destructor.
 4. Explain the structure of C++.

- Q.2. Attempt any two of the following - (8)
1. Compare & Contrast Structured Programming & object oriented programming.
 2. Explain any three data types in C++.
 3. How to define member function in class. Explain with suitable example.

Q.3. Multiple choice question

1. Which of the following is invalid header file name?
i) string ii) <iostream> iii) <sstream> iv) <iostream>
2. We can use C++ as procedural as well as oop
i) True ii) false iii) equal iv) Null
3. Object can be used as a function argument by
i) Pass by value ii) Pass by reference iii) None of above iv) All of above
4. C++ supports
i) Construct Pointer ii) Pointer to Constant iii) None of the above
iv) Both of the above.
5. Function call automatically when an object is created is called as
i) Construct ii) Constructor iii) destructor iv) str



List of Questions for Credit Exams/Test/Sessional

UG - CS - 203 Compiler Construction

Q1 Attempt any five of the following - (20)

1. Describe in detail Compiler Constructors Part.

2. Explain an overview of Compilation Process

3. Explain role of Lexical analyzer

4. Explain the following terms

→ Token → Lexeme → Pattern

5. Describe Lex Specification in detail.

6. Compare & Contrast Compiler & Interpreter



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List of Questions for Credit Exams/Test/Sessional

S.Y.B.S. 12 V2.CS.329

Programming in C++ - II

Q.1 Attempt any four - (8)

- What is function? Explain in brief based of function
- What is pointer?
- Explain unary operators.
- What is friend function?
- Define new & delete operator
- Define function overloading.

Q.2. Attempt any three - (12)

- What is operator overloading? Explain with an suitable example.
- Explain the Concept of Binary operators
- Explain the Concept of inline function with an suitable example.
- Explain function overloading with an suitable example
- What is pointer to function?



List of Questions for Credit Exams/Test/Sessional

T.T.B.S2

Mr. C. 4/13

Q.1 Attempt Any four - (08)

- What is indexed array?
- Enlist the features of PHP.
- What is PHP?
- Enlist the names of web browsers.
- Define associative array.
- What is scripting language?

Q.2 Attempt any three - (12)

- Write any five string functions with syntax.
- Enlist and explain different data types in PHP.
- Explain structure & syntax of PHP script.
- Which are the different looping constructs supported in PHP? Give syntax.
- Compare & contrast associative array vs index array.



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Record of Credit / Unit Test

UG - CS - 323 Internet

Credit / Unit Test Marks Programming using PHP

Date	Credit / Unit Test Marks					Programming using PHP					
Roll No.	I	II	III	IV	V	Date	I	II	Roll No	IV	V
01	32					Roll No.					
02	33					31	34		61	40	
03	36					32	34		62	34	
04	38					33	36		63	36	
05	36					34	37		64	22	
06	31					35	32		65	34	
07	34					36	32		66	33	
08	35					37	32		67	34	
09	38					38	30		68	35	
10	31					39	30		69	36	
11	38					40	30		70	30	
12	35					41	36		71	32	
13	32					42	32				
14	38					43	32				
15	36					44	36				
16	32					45	32				
17	33					46	32				
18	26					47	32				
19	33					48	34				
20	35					49	26				
21	34					50	38				
22	32					51	34				
23	34					52	38				
24	39					53	34				
25	34					54	36				
26	30					55	34				
27	36					56	34				
28	30					57	34				
29	31					58	38				
30	33					59	38				
						60	40				



THE SHIRPUR EDUCATION SOCIETY R. C. PATEL EDUCATIONAL TRUST



Assessment of Test (Internal Examination)

Branch & Year: UG - CS - 402. Program in C++-II Div.:				Subject:			
Roll No.	Marks	Roll No.	Marks	Roll No.	Marks	Roll No.	Marks
01	38	32	35	63	28		
02	32	33	37	64	29		
03	36	34	38	65	30		
04	37	35	36	66	36		
05	38	36	35	67	24		
06	38	37	38	68	38		
07	37	38	36	69	25		
08	38	39	37	70	24		
09	36	40	38	71	24		
10	38	41	37	72	37		
11	31	42	38	73	32		
12	28	43	40	74	33		
13	28	44	37	75	27		
14	38	45	34	76	28		
15	28	46	37	77	29		
16	35	47	38	78	28		
17	25	48	38	79	29		
18	37	49	25	80	30		
19	38	50	38	81	27		
20	31	51	36	82	36		
21	35	52	38	83	32		
22	28	53	36				
23	36	54	29				
24	39	55	20				
25	30	56	40				
26	25	57	34				
27	38	58	34				
28	34	59	38				
29	31	60	24				
30	38	61	35				
31	39	62	28				



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Assessment of Test (Internal Examination)

Branch & Year: CS. 203 Compiler Construction Div.:

Subject:

Roll No.	Marks		Roll No.	Marks		Roll No.	Marks	
01	32							
02	38							
03	39							
04	38							
05	34							
06	36							
07	34							
08	37							
09	34							
10	35							
11	34							
12	35							
13	32							
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17	31							
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22	38							
23	37							
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25	36							
26	31							
27	33							
28	32							
29	33							



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Result Analysis - Credit Test / Unit Test

Branch & Year	Computer Science 2019-20				
Semester	I				
Subject	Computer Aided Graphics, C++ Programming - I				
Total No. of Students	CAG: 71 C++: 83				
Analysis For:	Test - I	Test - II	Test - III	Test - IV	Test - V
Total No. of Students Appeared	71	83			
Total No. of Students Absent	00	00			
Total No. of Students Passed	71	83			
Total No. of Students Failed	00	00			
Percentage of Result	100%	100%			

Branch & Year	Computer Science 2019-20				
Semester	II				
Subject	PHP Programming, C++ Programming - II				
Total No. of Students	PHP: 71 C++: 83				
Analysis For:	Test - I	Test - II	Test - III	Test - IV	Test - V
Total No. of Students Appeared	71	83			
Total No. of Students Absent	00	00			
Total No. of Students Passed	71	83			
Total No. of Students Failed	00	00			
Percentage of Result	100%	100%			



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Result Analysis University

Branch & Year	Computer Science 2019-20	Computer Science 2019-20
Semester	I	I
Subject	Computer Aided Graphics	Programming in C++-I
Total No. of Students	71	83
Analysis For:		
Total No. of Students Appeared	71	83
Total No. of Students Absent	00	00
Total No. of Students Passed	67	69
Total No. of Students Failed	04	14
Percentage of Result (College)	94.36%	83.13%
Percentage of Result (University)	84%	76%

Branch & Year		
Semester		
Subject		
Total No. of Students		
Analysis For:		
Total No. of Students Appeared		
Total No. of Students Absent		
Total No. of Students Passed		
Total No. of Students Failed		
Percentage of Result (College)		
Percentage of Result (University)		



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Record of Content Beyond Syllabus

Sr. No.	Date	Name of the Topic	Contents	Mapping with PEO

Record of Training / Visit

Date	Details of Training / Visit
01.	Python 4.3
02.	'R' Programming
03	Project management



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Record of Consultancy Work / R & D Project

Period	Details of Work	Amount	Funding Agency

Co-curricular and Extracurricular activity Record

Sr. No.	Name & Program	Month & Date	Group Teacher	Principal
1	Admission Counseling	15 th June - July		
2	Anti ragging Committee	15 th June - 25 th July		
3	Welcome function to U4, P4	Aug. - 19		
4	Blood Donation Camp	25 th Aug - 19		
5	Teachers Day celebration	5 th Sept. 19		
6	Computer Science quiz	Sept - 19		
7	Placement Activity	Nov. / Dec. 19		
8	State level Contest	Dec - Jan - 20		
9	Poster Presentation	Feb. 20		
10	Soft skill seminar	Jan - Feb. 20		



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Record of Seminars / Conferences / Summer - Winter Schools

Sr. No.	Nature of Program	Place	Date (S) & Duration	Organized by
01	one day workshop on Scilab on 4 May 2019	R.C. Patel Institute of Technology	4-May-2019	Pandit Madan Mohan Malaviya National Mission on Teachers & Teaching (MHRD)
02	one day workshop on Linux on	R.C. Patel Institute of Technology	23 Aug. 2019	- -
03	esim a first Course in the IOT series for teachers	- -	Sep. 2019 -21	- -
04	one day workshop on 'R'	- -	Nov. 2019 -09	- -
05	one day syllabus restructuring	Acs College dealisgam	7. March 2020	KBC NDU & Acs College. dealisgam
06	one week online FDP	RCPET & Spoken	April 21 to April 26. 20	Spoken Tutorial IIT Bombay



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Record of Expert Talk / Research Papers Publish

Sr. No.	Nature of the Journal / Conference / Institute	Month / Year Vol. / Place	Title of Paper / Topic
01	(A Peer Reviewed) International Journal of Computer Research & Technology (IJCRT)	ISSN No. 2454-7719 Vol. 5 Issue-2 July - Dec. 2019	A Review of Automated Techniques for Brain Tumor Detection
02	CS - Journals International Journal of Computer Science & Communication	ISSN No. 0973-7391 Impact factor: 5.1 Vol. 11, Issue-1 Jan-2020	Digital Image Processing in Biotechnology for Environment Protection



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Record of University / DTE / UGC / AICTE Duties Performed

Sr. No.	Date	Nature of Assignmnet	Institute / University	Remark
1	Sept. 19-20	UG - Paper setting	University	
2	Sept. 02-19-20	PG - Paper setting	University	
3	Nov. / Dec. 19-20	Practical & Paper checking	University Institute	
4	Nov. 2019	Jr. supervisor	Institute	
5	Jan 2020	UG - Paper setting	University	
6	Jan 2020	PG - Paper setting	University	
7	March 2020	Practical Examiner	University	
8				
9				
10				



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Local Guardian Record

No.	Name of Students	Class	Div.	Mobile No.	Student Sign.
1	Patil Kantran Sanjay	T.Y.B.Sc.	A	8208720998	Patil
2	Patil Pallavi S.	T.Y.B.Sc.	B	9359493509	Patil
3	Sonawane Vaisteali S.	T.Y.B.Sc.	B	8858961360	Sonawane
4	Wagh Atul Madhukar	-	B	8806780144	Wagh
5	Sarale Tina Vistenu	-	B	912409973	Tina
6					
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Minutes Of Meeting

Sr. No.	Date of Meeting	Minutes
1	17/06/19	Distribution of work, Requirement list, SOFT-T24 club activities, workload distribution, Result Analysis, Academic Calender, National Conference.
2		
3	28/11/19	First - sem. Result Analysis, Abroad placement activity.
4		Abroad industrial project, SOFT-T24 club activities.
5		Abroad State - Level Seminar.
6		Preparational Exam - Time Table
7		
8		
9		


Teacher Sign.


HOD Sign.

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Certificate

This is to certify that Mr. / Mrs.

Bhanudas Suresh Pawesthai

Designation Asst. Prof of R.C. Patel Arts
Commerce & Science College, Shirpur

(Name of College)

has submitted faculty Diary for the academic year 2019-2020

with all complete details.

Date: 30/04/2020


H.O.D.


Vice-Principal

Principal

R. C. PATEL INSTITUTE OF TECHNOLOGY

Near Nimzari Naka, Shahada Road, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 259600, Fax: 02563 - 259801,802 www.rcpit.ac.in



R. C. PATEL INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH

Near Karwand Naka, Shirpur 425 405 , Dist. Dhule, M.S.

Tel.: 02563 - 255189, 251809 Fax:02563-251808,

www.rcpatelpharmacy.co.in



H. R. PATEL INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH

Near Karwand Naka, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 257599 www.hrpatelpharmacy.co.in



R. C. PATEL ART, SCIENCE & COMMERCE COLLEGE

Near Karwand Naka, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 257328 www.rcpasc.ac.in



H. R. PATEL ART MAHILA COLLEGE

Opp. Telephone Exchange, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 255302 www.hrpmahila.ac.in



INSTITUTE OF MANAGEMENT RESEARCH & DEVELOPMENT

Near Karwand Naka, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 251028 www.rcpimrd.ac.in



R. C. PATEL COLLEGE OF EDUCATION

Near Karwand Naka, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 255301 www.rcpcoedn.org.in



R. C. PATEL JUNIOR COLLEGE OF EDUCATION

Near Karwand Naka, Shirpur 425 405, Dist. Dhule, M. S.

Tel.: 02563 - 257639



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Academic Year 2021-2023
Semester I & II
Department Computer science
Class & Subject Computer
Faculty Name B. S. Ranjibhai

FACULTY ACADEMIC DIARY...

1

R.C. Patel Arts, Commerce AND Science College, Shirpur
(Prof.B.S.Panchbhai) | bharat.panchbhai@gmail.com
Brief Bio-Data

1. Name of the teacher: Bhanudas Suresh Panchbhai
2. Qualification : M.C.S. , M.Phil. (Computer Science and Technology) ,PhD (Pursuing)
3. Specialization: Computer Science
4. Are you actively involved in the research? Yes (Pursuing PhD KBCNMU, Jalgaon)
5. Do you have any research collaborations? Yes (National/International)
6. Are you involved in the consultancy work? Yes Development of E-content Saksath.com (UGC)
7. Do you have organized National Conference/State level? Yes (Completed) (UGC funded)
8. Do you have organized National Seminar? Yes

8. Research publications (Please specify no.):-

a. International Journal Publications	25
b. National Journal	15
c. College Journal	02
d. Books Published:	40 with ISSN No.
e. Articles	02

9. Workshop/Symposium: 40

10. Refresher / Orientation / FDP / Training: 20

11. Teaching Experience: UG – 27 yrs. PG – 21 yrs.

12. Awards:

1. R.C. Patel Educational Trust's, R.C.Patel ACS College, Shirpur Best Teacher Award
2. Rashtriya Vidya Gaurav Puraskar by Indian Solidarity Council.
3. Bharat Vidya Shiromani Award by International Business Council.
4. Jewel of India Award by International Institute of Education and Management.
5. Rashtriya Vidya Gaurav Gold Medal Award By International Institute of education & Management.
6. EET CRT Education Pro : Appreciation certificate and Trophy(2017)
7. ARCH of International Education Excellence Award by International Business Council
8. EET CRT Education Pro : Appreciation Certificate and Trophy(2019)
9. Economic Growth Society of India – Glory of education excellence award.(2021)

13. Contribution in social activities



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Sr.No.	Nature of Work
1.	Resource person in IT Dindi
2.	Guest Lecturer For NSS program
3.	Resource Person in Science Exhibition
4.	Blood Donation Camp
5.	Election Duty (PRO)
6.	Ekkalavya center coordinator
7.	Youth Festival Committee Member
8.	Resource Person In NTS For School (National Talent Search)

14. Links/Membership

Sr.No.	Linkage Institute/University
1.	DOCS,N.M.U., Jalgaon
2.	R.C.Patel Institute of Technology, Shirpur
3.	Smt.Agrawal Institute, Chalisgaon
4.	LM.R.D.,Shirpur
5.	Priyadarshani SuitGirni Ltd, Shirpur
6.	Peoples Co-operative Bank Ltd, Shirpur
7.	DAVV, Indore
8.	Indian Science Congress Association
9.	AIMS International
10.	National Cyber Security ,New Delhi
11.	IARDO Conference world.
12.	ATSS' IICMR-MCA,Pune

15. Work as a HOD, Honorary Director and PG recognized teacher, Placement coordinator, eklavya coordinator, certificate course coordinator, Admission committee & Avishkar committee , news , culture committee ,Avishkar, internal examination committee member.

16. Work as a Subject expert in KBCNMU region colleges, LIC Committee Member, Practical & Theory papers chairman in UG/PG , Senior Supervisor ,flying squad etc.



THE SHIRPUR EDUCATION SOCIETY
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Particulars of faculty member and Telephone Numbers

R. C. Patel Arts, Com & Sci. College, Shirpur, Dist. – Dhule.
Dept. of Computer Science

Sr.No.	Faculty Name	Subject	Educational Qualification	Date of Appointment
01	Bhanudas Suresh Panchbhai	Computer Science	M.C.S. M.Phil., Pursuing PhD	18-10-1994
02	Sunil Dhondumone		M.C.A., M.Phil., SET	18-10-1996
03	AnandJayantialaMaheshwari		M.Sc., SET	19-08-2004
04	DipakEk NathChavan		M.Sc., NET	06-08-2009
05	Anagha Bholane		M.Sc., SET	22-07-2020
06	Ruchika Patil		M.Sc.	22-07-2022
07	Suvarna Rajput		M.Sc.	22-07-2022
08	Diksha Patil		M.Sc.	22-07-2022
09	Jayashri Borase		M.Sc.	22-07-2022

R.C. Patel Arts, Commerce and Science College, Shirpur**Department of Computer Science****Academic Calendar 2022-2023**

Sr. No.	Name of Activity	Month and Year
1.	Admission Counseling for UG and PG	15 th June to 31 st July-2022 For UG Aug to 20 th Aug 2022
2.	International Yoga Day Participation	21 st June 2022
3.	Welcome Function For PG students	04 th Sept. 2022
4.	On line Registration committee ,Ant ragging and preparation of merit list	18 th August 2022 to 30 th Aug 2022
5.	Computer science Conference organizing Committee	Month August/ September 22
6.	Teachers Day Celebration	05 th September 2022
7.	Placement Cell Activity	Through Academic Year
8.	Internal Test UG and PG	14 th to 21 st September 2022
9.	Computer Science Quiz Competition/PPT Competition	2-4 th October 2022
10.	Internal Test PG (Second Internal)	16 th October 2022
11.	Guidelines and Inspiration to students and Teachers for Avishkar	25 to 28 th December 2022
12.	Project Guidelines and Recent Trends in Computer By Speaker	27 th January 2023
13.	Culture Program Activities	January 2023
14.	Guest/Speaker	January 2023
15.	Internal Test UG and PG	18 th to 28 th February 2023
16.	Poster Presentation Competition	6 th March 2023
17.	Internal Test PG (second Internal)	22 nd March to 26 th March 2023
18.	Send off for final year UG and PG students	March 2023
19.	Preparation and Guidelines for M.Sc. Project Work	From December -22 to Till Examination. June -23
20.	Preparation of resume and placement cell activity	Through academic year
21.	Run certificate Course In Commerce For Textile Industry	Through academic year
22.	Conduct seminar on Various topics by PG students	Through academic year
23.	Preparation of online feedback data of Teachers by students	30 th April 2023
24.	Assist to Nonteaching , Teaching and students for S/w and H/w, Internet etc.	Through academic year
25.	Carrier Katta : Guidelines for MPSC/UPSC program	Through academic year
26.	For UG and PG students :Conduct IIT Bombay Spoken tutorial Course / Courser a Courses/ Free Training Courses	Within academic year

Department of Computer Science



THE SHIRPUR EDUCATION SOCIETY
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Time- Table

Sem. . I

P. N.	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1							
2							Certificat
3	T.Y.B.Sc (IV)	T.Y.B.Sc (IV)	T.Y.B.Sc (IV)				Course
4	T.Y.B.Sc. (IV)			S.Y.B.Sc (P-II)	S.Y.B.Sc (P-II)	S.Y.B.Sc (P-II)	
5							
6	T.Y.B.Sc. (Lab-II)	T.Y.B.Sc. (Lab-II)				T.Y.B.Sc (Lab-II)	
7	-H-	-H-				-H-	
8	-H-	-H-				-H-	

Time- Table

Sem. II

P. N.	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	T.Y.B.Sc (IV)	T.Y.B.Sc (IV)	T.Y.B.Sc (IV)	M.Sc. (II)	M.Sc. (II)	M.Sc. (II)	
2			S.Y.B.Sc (Lab-II)	S.Y.B.Sc (Lab-III)			Certificate
3							Course
4	T.Y.B.Sc (IV)			S.Y.B.Sc (P-II)	S.Y.B.Sc (P-II)	S.Y.B.Sc (P-II)	
5						M.Sc. (II)	
6							
7							
8							

Sem - I Paper - I

CS-DSC 2 C

Theory: 30 Hours

CS-DSC 2 C : COMP-212 : Programming in C++-I

Unit 1. Introduction to C++

(6 L, 18M)

- 1.1 Basics of C++, Structure of C++ Program
- 1.2 keywords in C++, Data types hierarchy in C++
- 1.3 Operators in C++, Scope resolution operator, Insertion and Extraction operator, New and Delete operators, reference operators.
- 1.4 Manipulators : endl, setw, setfill, set precision.

Unit 2. Classes and objects

(8 L, 18M)

- 2.1 Classes, object, Specifying a class, Access specifiers, Class members
- 2.2 Defining member functions: Inside and Outside the class definition
- 2.3 Creating objects.
- 2.4 Array of objects, Pointer and object, Array of pointer to object.

Unit 3. Functions in C++

(6L, 18M)

- 3.1 Basics of function and its need.
- 3.2 Functions Prototype.
- 3.3 Call by value, Call by reference with object.
- 3.4 Functions with default arguments.
- 3.5 Inline function.
- 3.6 friend function, friend class.

Unit 4. Function Overloading

(4L, 18M)

- 4.1 Concept of Polymorphism
- 4.2 Function overloading, function overloading with arguments
- 4.3 Scoping rules & features of function overloading.

Unit 5. Operator Overloading

(6 L, 18M)

- 5.1 Introduction to operator overloading, rules of operator overloading
- 5.2 Operator overloading:
 - 5.2.1 Unary and binary operators.
 - 5.2.2 Comparison, arithmetic, assignment operator.
 - 5.2.3 Overloading new & delete operators

Reference Books:

1. Object oriented programming with C++, E Balgurusamy, ISBN-10: 9383286504; ISBN-13: 978-9383286508
2. Programming with C++ D Ravichandran, ISBN. 0070681899, 97800706
3. Programming in C++ by John H Hubbard, ISBN-10: 0071353461
4. Mastering C++ by K Venugopal, Rajkumar, T Ravishankar, ISBN-10/ASIN: 0074634542



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Lecture Planning (Teaching Plan)

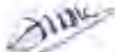
Class: T.Y.B.Sc. Division: _____ Subject: UG-CS-504 Computer Aided

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	01/08/22	01 02	Origin of Computer Graphics Appns of CG.	History of Computer Graphics. CA Appns.
2	02/08/22	03	Basic Definitions	All Basic Definition of Computer Graphics
3	03/08/22	04	How Interactive Graphics Display Works?	Working of Interactive Graphics Display.
4	08/08/22	05, 06	Display types: Random Scan & Raster Scan	Concept of Random & Raster Scan
5	10/08/22	07	Co-ordinate System	About Co-ordinate System
6	17/08/22	08	The Simple DDA	Simple DDA Algorithm
7	22/08/22	09, 10	The Symmetrical DDA	Symmetrical DDA Algorithm
8	23/08/22	11	Bresenham's line drawing Algo.	Bresenham's Line Drawing Algorithm
9	24/08/22	12	Bresenham's Circle drawing Algo.	Bresenham's Circle Drawing Algorithm
10	29/08/22	13, 14	Transformation Principles	Transformation Principles
11	30/08/22	15	Concatenations	About Concatenation
12	05/09/22	16, 17	2-D Transformations	Concept of 2-D Trans
13	06/09/22	18	2D Matrix Representation	2-D Matrix Representation
14	07/09/22	19	3D Transformations	About 3-D Transf ^{ns}
15	12/09/22	20, 21	3D Matrix Representation	Concept of 3-D Matrix Representation


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Lecture Planning (Teaching Plan)

Class: T.Y.B.Sc Division: _____ Subject: CAG
Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	13/09/22	22	Transformation in Viewing	About viewing Transformation
2	14/09/22	23	The Perspective Transformation	About Perspective Transform
3	15/09/22	24,25	Definitions - Window, Clipping VP.	Definitions - Window Clipping & View Port
4	20/09/22	26	Cohen-Sutherland Line clip. Algo.	Cohen-Sutherland Line clip. Algo. Concept
5	21/09/22	27,28	Polygon Clipping	Polygon Clipping Algo.
6	26/09/22	29,30	The Windowing Transform	What is Windowing transform?
7	27/09/22	31	3-D Clipping	About 3-D Clipping
8	03/10/22	32,33	Introduction to Scan Conversion	Introduction to Scan Conversion Algorithm
9	04/10/22	34	Scan Conversion Line -	Scan Converting Line Algo.
10	10/10/22	35,36	Polygon Drawing	Polygon Drawing
11	11/10/22	37	Coherence	Priorities of Coherence
12	17/10/22	38,39	(Yx) Algorithm	About (Yx) Algorithms
13	18/10/22	40	Priority: Painter's Algo.	Concept of Painter's Algo.
14	19/10/22	41,42	Object space & Image Space Algo.	What is object space & image space Algo.?
15	07/11/22 08/11/22	43,44 45	Depth Buffer Algo. Warnock's Algo.	Depth buffer Algo. & Warnock's Algo.

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Lecture Planning (Teaching Plan)

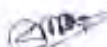
Class: T.Y.B.Sc. Division: B1 Subject: Lab on CAG - II

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	08/08/22	01-04	Implement DDA Line Drawing Algo.	DDA Line Drawing Pgm.
2	22/08/22	04-08	Implement Bresenham's LDA	Bresenham's Line & Pgm.
3	29/08/22	08-12	Implement Bresenham's Circle A.	Bresenham's Circle Pgm.
4	05/09/22	12-16	Block Diagram of Computer	Write a Pgm. to Draw Block Diagram of Computer
5	12/09/22	16-20	Display flag of India.	Write a program to display flag of India.
6	19/09/22	20-24	Flowerkart Symbols	Draw Flowerkart Symbols
7	26/09/22	24-28	Implement Translation Tran ^m	Write a Translation Pgm.
8	03/10/22	28-32	Implement Scaling Tran ^m	Write a Scaling Pgm.
9	10/10/22	32-36	Implement Rotation Tran ^m	Write a Rotation Pgm.
10	17/10/22	36-40	Implement Cohen-S. line clipping Algo.	Draw Cohen Sutherland line clipping Algo.
11				
12				
13				
14				
15				


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Lecture Detail

Month: Aug. Week: First From 01 Aug. To 06 Aug. 22

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 01/08/2022	TYBSc	CAG: Computer Aided Graphics	origin of Computer Graphics APPLS OF CG	History. Applications	Principles of Interactive Computer Graphics William M. Newman
Tuesday 02/08/2022	TYBSc	CAG	Basic Definitions	Definitions Pixel, Computer Graphics, Resolution etc.	Principles of Interactive Computer Graphics Newman & Rogers
Wednesday 03/08/2022	TYBSc	CAG	How Interactive Graphics display works?	Interactive Graphics display Working Concepts	→

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 04/08/2022	SYBSc	COMP-212 Programming in C++-I	Basics of C++	Basics of C++ Features, Rules & Identifiers	Programming with C++ D. Ravichandran
Friday 05/08/2022	SYBSc	— C++-I	Structure of C++ Program	Structure of C++ - Program Structure	Programming with C++ D. Ravichandran
Saturday 06/08/2022	SYBSc	— C++-I	Keywords in C++	Keywords. - Literals - Reserved words - Keywords	—
Remarks:					
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Lecture Detail

Month AUG Week Fourth From 22 Aug. To 27 Aug. 22

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 22/08/2022	TYBSc	CAG Computer Aided Graphics	The Symmetrical BDA	Symmetrical BDA	Principles of Interactive Computer Graphics Newman & Rogers
Tuesday 23/08/2022	TYBSc	CAG	Bresenham's line drawing Algorithm	line drawing algorithm	—
Wednesday 24/08/2022	TYBSc	CAG	Bresenham's Circle drawing Algorithm	Circle drawing algorithm	Principles of Interactive Computer Graphics Newman & Rogers

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 25/08/2022	SYBSc	Programming in C++ - I	setfill, set Precision	setfill set Precision with example	Programming with C++ D. Ravichandran
Friday 26/08/2022	SYBSc	— C++ - I	classes, object	classes & object Structure of example	Programming with C++ K. Venugopal
Saturday 27/08/2022	SYBSc	— C++ - I	Specifying a class	specifying a class with example	Program with C++ K. Venugopal
Remarks					
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Record of Credit / Unit Test

Credit / Unit Test Marks 09-504 Computer Aided Graphics

Date	I	II	III	IV	V	Date	I	II	III	IV	V
699	35					729	28				
700	36					730	38				
701	32					731	39				
702	33					732	32				
703	33					733	22				
704	32					734	24				
705	37					735	34				
706	26					736	32				
707	28					737	28				
708	38					738	37				
709	40					739	40				
710	30					740	40				
711	34					741	22				
712	22					742	36				
713	39					743	34				
714	34					744	33				
715	32					745	36				
716	40					746	26				
717	34					747	28				
718	32					748	40				
719	31					749	31				
720	38					750	34				
721	38					751	33				
722	27					752	33				
723	37					753	36				
724	22					754	30				
725	20					755	36				
726	39					756	32				
727	36					757	32				
728	30					758	33				



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Lecture Planning (Teaching Plan)

Class: M.Sc Division: _____ Subject: Compiler Construction
Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	02/02/23	01, 02	Analysis model of Compilation	Analysis phase
2	03/02/23	03	Synthesis model of Compilation	Synthesis phase
3	04/02/23	04	Various phases of Compiler	Phases of Compiler
4	09/02/23	05, 06	Compiler Construction Tools	Compiler Construction Tools
5	10/02/23	07	Compiler Vs Interpreter	Comparison
6	11/02/23	08	Role of Lexical analyzer	Role of Lexical An.
7	16/02/23	9, 10	Parser, symbol Table	Parser, ST
8	18/02/23	11	token, lexeme & Pattern	Terms token, lexeme & Pattern
9	23/02/23	12, 13	Lexical errors	Errors
10	24/02/23	14	Regular Definition	Regular Expression
11	25/02/23	15	Transition Diagram	Transition Diagram
12	02/03/23	16, 17	LEX	LEX
13	03/03/23	18	Ambiguity	Ambiguity
14	04/03/23	19	Associativity	Associativity
15	08/03/23	20, 21	Precedence	Precedence


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Lecture Planning (Teaching Plan)

Class: M.Sc.

Division: _____

Subject: Compiler Construction

Lectures Required as per the Syllabus

Sr. No.	Date	Lecture No.	Topics Plan	Unit / Chapter Learning Outcome
1	10/09/23	22	top down Parsing	Top down Parser
2	11/09/23	23	Recursive descent Parsing	Recursive descent Parser
3	16/09/23	24, 25	Bottom up Parsing, LR Parsers SLR, LALR, LR, YACC	Comparison of types of Parser
4	17/09/23	26	Symbol Table	Symbol Table
5	18/09/23	27	Dynamic storage allocation	Dynamic storage allocation.
6	23/09/23	28, 29	activation tree	Activation Tree
7	24/09/23	30	Intermediate representations	Intermediate Code representation
8	25/09/23	31	Translation of declarations	Translation
9	30/09/23	32, 33	Assignment, Control flow	Assignment Control flow
10	31/09/23	34	Boolean expressions	Boolean expression
11	06/10/23	35, 36	Procedure Calls, implementation issues	Procedure Calls implementation issues
12	07/10/23	37, 38	Basic Blocks of flow graphs	Basic Blocks
13	08/10/23	39, 40	Register allocation, Code generation	Register Allocation Code generation
14	13/10/23	41, 42	Block representation of Pdag	Block Representation
15	14/10/23	43, 44	peep hole optimization	Peep hole optimization
	15/10/23	45, 46	Code generators	Code generators
	20/10/23	47, 48	Bottom up vs top down	Bottom up vs top down
	21/10/23	49, 50	overloaded func ^s & operators	Polymorphic func ^s
	22/10/23	51, 52	Polymorphic func ^s	Polymorphic func ^s

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Lecture Detail



Month: Feb. Week: Third From: 13 To: 18 Feb, 2023

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 13/02/2023	TYBSC	Theory of Computer Science	Regular Expression to finite Automata	Examples on Regular Expression to finite Automata	Theory of Computer Science By J.D. Ullman
Tuesday 14/02/2023	TYBSC	Theory of Computer Science	Finite Automata to Regular expression	Examples on finite Automata to Regular expression	Theory of Computer Science By J.D. Ullman
Wednesday 15/02/2023	TYBSC	Theory of Computer Science	Applications of FA	Applications of finite Automata	Theory of Computer Science By J.D. Ullman

Lecture Details

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Thursday 16/02/2023	SYBSC	Programming with C++	Derived class Constructors	Programs on Derived class Constructors	C++ Programming By E. Balgurusamy
Friday 17/02/2023	SYBSC	Programming with C++	— D.L.	—	—
Saturday 18/02/2023	SYBSC	Programming with C++	Benefits of inheritance to C++	Importance of Inheritance	C++ Programming By B. Rajchandran
Remarks					
 Sign of Teacher		 Sign of HOD		 Sign of HOD / Vice Principal	



S.Y.B.Sc

Programming in C++ - II

Max. Marks: 20

Q.1. Attempt any four of the following - (08)

- what is inheritance?
- Define exception.
- what is destructor?
- what is file?
- Define virtual function.

Q.2. Attempt any three of the following - (12)

- Enlist & explain types of inheritance in brief.
- what is Constructor? Explain parameterized Constructor with suitable example.
- Explain the Concept of exception handling mechanism with suitable example.
- what is derived class? Explain pure virtual function with suitable example.



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List of Questions for Credit Exams/Test/Sessional

T.Y.B.Sc

Theoretical Computer Science

Max. Marks: 20

Q.1. Attempt any four of the following - (08)

- What is set? List operation perform on set.
- Define relation. Give properties of relation.
- What is Deterministic finite automata?
- Express in english: $(0+1)^*00(1+0)^*$
- What is Pumping lemma?

Q.2. Attempt any three of the following - (12)

- Find $A \cup B$, $A \cap B$, $A - B$, $A * B$, $2B$. IF
 $A = \{1, 2, 3\}$, $B = \{3, 4, 5\}$
- Construct FA for even number of 0's & 1's.
- Prove that $\text{Lang}^n L = \{0^p \mid p \text{ is a prime}\}$ is regular or non regular.
- Construct FA for the following regular expression.
 $(0+1)^*001^*$



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Record of Content Beyond Syllabus

Sr. No.	Date	Name of the Topic	Contents	Mapping with PEO

Record of Training / Visit

Date	Details of Training / Visit
9 to 11 March 23	"New Technology Kaushtalya Abhiyan - 23" - Nirmala Ashrama Secondary School



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Record of Consultancy Work / R & D Project

Period	Details of Work	Amount	Funding Agency

Co-curricular and Extracurricular activity Record

Sr. No.	Name & Program	Month & Date	Group Teacher	Principal
1.	A state level Case study	2/5/23	B.s. Parachbhai	
2.	F 'C/C++ Prog. Competition'		Co.ordinator	
3.	Essay Competition	4/3/23	B.s. Parachbhai	
4.	Flag fund Raising Day	26/03/23	Co.ordinator	
5.	World Yoga Day	21/06/22	Group Teacher	
6.	Blood Donation Camp	25/08/22	Group Teacher	
7.	English Com ^o Skills of	March 13 to 17 - 2023	B.s. Parachbhai Co.ordinator	
8.	CSRW Skill			
9.	Three days Workshop on "New Technology Kaushalya - 2023"	9 to 11 March	B.s. Parachbhai Co.ordinator	
10.	Abhiyan - 23	17 March 2023	B.s. Parachbhai Co.ordinator	
	• Mega Campus Drive		Co.ordinator	
	• NEP - 2020 Conference	20-21 Feb. 23.	certificate Committee	



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Record of Seminars / Conferences / Summer - Winter Schools

Sr. No.	Nature of Program	Place	Date (S) & Duration	Organized by
1.	Participation in International Conference on RISEMFI	J.S. University Sitapohabad	22-23 Nov. 2022	J.S. University in Collaboration with msu, Conference World etc Sitapohabad.
2.	National level Emerging Trends in Remote Sensing - ETRS-2022	Ahmednagar	26 Nov. 2022	Acs College Beed, Commerce College Pune, Acs College Ahmednagar with IEEE - GRS, Bombay
3.	International online Workshop on Machine learning - A Deep Dive.	Chennai	17-19 Dec. 2022	Inspire softtech solutions, Chennai - 600059.
4.	Webinar on Advances in Computing	KBC NMU, Jalgaon	2-3 March, 2023	KBCNMU, Jalgaon School of Computer Sciences
5.	Workshop on "streamlining Accreditation Data Mgt in IFE"	AKKalkuwa	5 April 2023	Master soft in association with JIU's Al. Aflaua College of Pharmacy - AKKalkuwa



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Record of Expert Talk / Research Papers Publish

Sr. No.	Nature of the Journal / Conference / Institute	Month / Year Vol. / Place	Title of Paper / Topic
1.	Three days Workshop :	9 to 11 March 2023	Talk on topic : "New Technology Kaustealya Akijau-20 Niwani"
2.	Journal for Basic Sciences Krc Care Group -II AAPS. Journal ISSN No. 1006-8361	2 May 2023 V. 23, I. 5	Comparative study of Health Terminology Standards for patient Complaint Translation System
3.	Kurwad of Vrunda A Joint Venture Jalgaon	1 Dec. 2022	Internet Computing 978-93-93867-00-0
4.	Kurwad of Vrunda A Joint Venture Jalgaon	1 Dec. 2022	Programming in C-# 978-93-93867-38-4



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Record of University / DTE / UGC / AICTE Duties Performed

Sr. No.	Date	Nature of Assignment	Institute / University	Remark
1	25/11/2022	Practical Chairman M.Sc. (IT) 76/2022	University	
2	03/03/23	Practical Examiner M.C.A. KBCNMU/7c/559/2023	University	
3	18/05/2023	Practical Chairman M.Sc. (IT) 76/7cec/2023	University	
4	12/12/2022	Paper Assessment 7-I/OOE/4042/Winter/22	University	
5	12/09/2022	Paper Setting T.Y.B.Sc./M.Sc.	University	
6	07/01/2023	External Practical Examiner 7-c/43/23	University	
7	18/04/2023	Paper Setting T.Y.B.Sc./M.Sc.	University	
8	25/05/2023	Paper Assessment	University	
9	11/02/2023	Appointment of an Expert Committee for New College	University	
10		KBOTMU/Do No. 9/ New College - 28-24/33/2023		



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Local Guardian Record



No.	Name of Students	Class	Div.	Mobile No.	Student Sign.
1	Miss. Trupti Kantilal Patel	M.Sc-II		8780890203	<i>Patel</i>
2	Mr. Jadbav Rabul Ajmal	-H-		7249490575	<i>Rabul Ajmal</i>
3	Miss. Mayuri Dinkar Patil	-H-		9657546266	<i>Patil</i>
4	Miss. Trupti Prakashsing Rajput	-H-		744636581	<i>Rajput</i>
5	Miss. Patil Megha Milind	-H-		9373809212	<i>Patil</i>
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Minutes Of Meeting

Sr. No.	Date of Meeting	Minutes
1	15 th June 2022	Admission Counseling for UG & PG
2	Aug. 2022	Regarding Departmental Activities.
3	Sept. 2022	Regarding Placement Activity
4	Oct. Nov. 2022	Internal Examination - I, III, V
5	Dec. 2022	About Departmental Activities.
6	Jan. 2023	Regarding M.Sc (CS) Project Guidelines
7	Feb. 2023	Workshop / seminar / Placement Activity
8	March 2023	Internal Examination - II, IV, VI
9	April 2023	Feedback from UG / PG Students
 Teacher Sign.		 HOD Sign.

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Certificate

This is to certify that Mr. / Mrs.

Bhanudas Suresh Panchbhai

Designation Asst. Prof. of R. C. Patel Arts,

Commerce & Science College, Shirpur

(Name of College)

has submitted faculty Diary for the academic year 2022-2023

with all complete details.

Date: 07/06/2023

[Signature]
H.O.D.

[Signature]
Vice-Principal

[Signature]
Principal
10/06/2023

R. C. PATEL INSTITUTE OF TECHNOLOGY

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R. C. PATEL INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH

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www.rcpatelpharmacy.co.in



H. R. PATEL INSTITUTE OF PHARMACEUTICAL EDUCATION & RESEARCH

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R. C. PATEL ART, SCIENCE & COMMERCE COLLEGE

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