



**Jeevandeep Shaikshanik Sanstha's
ART'S, COMMERCE & SCIENCE COLLEGE,
KHARDI**

TALUKA – SHAHAPUR, DIST-THANE, STATE - MAHARASHTRA

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DEPARTMENT OF INFORMATION TECHNOLOGY

CAREER ORIENTED SHORT TERM /CERTIFICATE

COURSE IN

C# PROGRAMMING LANGUAGE



Jeevandeep Shaikshanik Sanstha's
ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI

TALUKA - SHAHAPUR, DIST-THANE, STATE-MAHARASHTRA

Short term course- C# programming

Board of studies-2019-2020

Sr.No	Designation	Name of the person
1	Chairman	Shri . Ravindrda Ghodvinde
2	Principal	ASST.Prof .K.R. Kalkate(Head of Marathi Dept.)
3	member	ASST.PROF. Mrs .PUSHPA SABALE(head of IT Department)
4	member	ASST.PROF Bhagyashree Balasaheb Pawar
5	member	ASST.PROF. Miss Sneha A. Madke
6	member	ASST.PROF. Miss Rupali Ravindra Ghodvinde

Minutes of meeting

Board of Studies meeting of the Short Term Course / Certificate in C# Programming was conducted on 11.01.2020 to 25.01.2020 at 12.00 pm in the online Mode Zoom app .Above members were present in the meeting .

Following Points are discussed in this meeting .

- Syllabus formation of C# programming short term course.
- Dissemination of work.
- Fee structure
- Encouragement of Student

Place : JSSP College Khardi

Date:




Coordinator

Short term /Certificate Course in C# Programming

1. Introduction:

This course is meant for the candidates who aspire to become a computational physicist and web designer for this students this course is a foundation course.

2. Course Objectives:

- ▶ To develop problem solving abilities using a computer.
- ▶ To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems.
- ▶ To help students build-up a successful career in Computational Physics.
- ▶ To introduce the foundations of computing ,programming and problem- solving using computers.
- ▶ To develop the ability to analyze a problem and devise an algorithm to solve it.
- ▶ To formulate algorithms, pseudo codes and flowcharts for arithmetic and logical problems.
- ▶ To understand structured programming approach.
- ▶ To implement algorithms in the 'C'# language.
- ▶ To test, debug and execute programs

Course Outcomes:

On completion of this course, students will be able to:

1. Explore algorithmic approaches to problem-solving.
2. Develop modular programs using control structures and arrays in 'C#'

3. Details about Structure\Pattern of Syllabus:

- ▶ Title of the course :Short Term Course in C #Programming
- ▶ Course Code :
- ▶ DurationoftheCourse:15 days



:Science

► **Name of the Faculty** (Information Technology)

► **Medium of instructions :** English

► **Eligibility/for admission**

Candidate should pass the higher secondary board or Equivalent with English as one of the subject.

► **Intake Capacity**

25 Students for the course

The complete structure will be as follows.



Certificate course in C# programming

course	Theory & practical	credits	Total Marks
U1	Fundamentals, OOP Concepts	01+01	20
U2	Methods ,Delegates ,Array List	01+01	20
U3	Constructors ,String	01+01	20
U4	Exception Handling ,Inheritance	01+01	20
U5	Multithreading, Windows Forms	01+01	20
	TOTOL	10	100



Pattern of Examination:**Evaluation:**

Examination will be held at The do the course.

Standard of passing: Minimum 40%.

Pattern of Question paper: Theory Paper 50 Marks

- Attempt anyone 10 Marks
- Attempt anyone 10 Marks
- Attempt anyone 10 Marks
- Attempt anyone 10 Marks

Q. S Attempt anyone 10 Marks

Practical Examination 50 Marks

Q. Write A Short Programme
on Given Topic. 40M Oral Exam 10M

- **Infrastructure Available:**

- ICT enabled Classroom
- Availability OF laboratory

- **Teaching Faculty:**

Sr. No.	Name of the Faculty	Qualification	Experience
1	Prof..Mrs.Pushpa Sable	BE (ETC)	3years
2	Prof..Miss .Sneha A. Madke	BE (COMP).	2 years
3	Miss. Bhagyashree Balasaheb pawar	MSc(IT),MCS	2 Years
4	4.Miss . Rupali Ravindra Ghodvinde	BE (COMP).	2 years



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ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TALUKA - SHAHAPUR, DIST-THANE, STATE-MAHARASHTRA

Department of Information Technology.

Short term course- C# programming

Date- 01/01/2020

Student Notice

All the S.Y.BSc IT students are informed that the short term course "**C# Programming**" will be commenced from date .11.1.2020. Therefore all the Student have to present for theory lecture and practical's as per giving schedule.

(Signature)



Principal

Jeevandeep Shaikshanik Sanstha Poi's
Arts, Commerce & Science College, Khardi
Khardi, Tal. Shahapur, Dist. Thane 421 601.

JeevandeepShaikshanikSanstha's

**ART'S, COMMERCE& SCIENCE COLLEGE, KHARDI
TALUKA - SHAHAPUR,DIST-THANE,STATE-MAHARASHTRA**

Department of Information Technology.

Short term course- C # Programming

Time Table 2019-20

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
12.00to 2.00	lecture	lecture	lecture	Practical	Practical	Practical

Faculty .

- 1.Mrs.Pushpa Sable**
- 2.Miss. Bhagyashree Balasaheb pawar**
- 3.Miss .Sneha A. Madke**
- 4.Miss . Rupali Ravindra Ghodvinde**



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Short term course- C# programming

(PROGRAMME SYLLABUS)

• Introduction to .NET Framework
• .NET Framework (Basic Architecture and Component Stack)
• Managed code and Unmanaged code in .NET
• Managed vs Unmanaged Code
• CIL or MSIL
• .NET Framework Class Library (FCL)
• Introduction to C#
• Setting up the Environment in C#
• How to Install and Setup Visual Studio for C#?
• Evolution of C#
• Hello World in C#
• How to Execute C# Program on cmd (command-line)?
• Main Method
• Getting Familiar With Visual Studio
• Common Language Runtime (CLR)
• Architecture of Common Language Runtime (CLR)
• JIT (Just-In-Time) Compiler
• Garbage Collection
• Windows Form Applications
• C vs C#
• C++ vs C#
• Java vs C#
• Python vs C#
• Interesting Facts about C#
• Type System Unification in C# .NET

Fundamentals

• Identifiers
• Data Types



• Variables
• Types of Variables
• Implicitly Typed Local Variables – var
• Dynamic Type in C#
• var vs dynamic
• Binary Literals and Digit Separators
• Scope of Variables
• Access Modifiers
• Constants or Literals
• Operators
• Command Line Arguments
• Boxing and Unboxing
• Boxing vs UnBoxing
• Params in C#
• Comments in C#
• Type Casting or Type Conversion
• Enumeration in C#
• Properties in C#
• Nullable Types
• Structures

Important Keywords

• Keywords
• as Keyword
• is Keyword
• Is vs As operator keyword
• static keyword
• typeof Keyword
• Difference between readonly and const keyword
• ref keyword

Control Statements

• Decision-Making Statements
• Switch Statement
• Loops
• Foreach Loop
• Jump Statements(Break, Continue, Goto, Return and Throw)

OOP Concepts

• Class and Object
• Nested Classes
• Difference between Class and Structure



• Early and Late Binding
• Overloading of Constructors
• Inheritance in C#
• Encapsulation in C#
• Abstraction in C#
• this keyword
• Static Class
• Partial Classes
• Shallow Copy and Deep Copy
• Different ways to create an Object
• Object and Collection Initializer
• Accessing structure's elements using Pointers

Methods

• Methods
• Method Overloading
• Method Returning an Object
• Method Parameters
• Runtime(Dynamic) Polymorphsim
• Method Overriding
• Method Hiding
• Method Overriding vs Method Hiding
• Optional Parameters
• Different ways to make Method Parameter Optional
• Out Parameters with examples
• Difference between Ref and Out keywords
• Anonymous Method
• Partial Methods
• Extension Method
• Local Function

Delegates

• Delegates
• Predicate Delegate
• Action Delegate
• Func Delegate

Constructors

• Constructors in C#
• Default Constructor
• Copy Constructor
• Private Constructor



- Constructor Overloading
- Static Constructors vs Non-Static Constructors
- Invoking an overloaded constructor using this keyword
- Destructors

Arrays

- Arrays
- Jagged Arrays
- Arrays of Strings
- Using foreach loop in arrays
- Array Class
- Sorting an Array
- Length of an Array
- Array.BinarySearch() Method
- Check if two array objects are equal or not
- Number of elements in a specified dimension of an Array
- LongLength property of an Array
- Rank of an Array
- Passing Arrays as Arguments
- Implicitly Typed Arrays
- Object and Dynamic Arrays
- Array IndexOutOfRangeException Exception
- Different ways to sort an array in descending order

ArrayList

- What is ArrayList?
- How to create the ArrayList?
- ArrayList Class
- Array vs ArrayList
- Adding the elements to the end of the ArrayList
- Removing all the elements from the ArrayList
- Removing a range of elements from the ArrayList
- ArrayList to Array Conversion
- Copying the entire ArrayList to a 1-D Array
- Copying the entire ArrayList to 1-D Array starting at the specified index
- Check if two ArrayList objects are equal

String

- String
- Verbatim String Literal – @
- String Class
- String Class Properties



- How to use strings in switch statement
- StringBuilder in C#
- String vs StringBuilder
- Length of the StringBuilder
- Remove all characters from StringBuilder
- Check if two StringBuilder objects are Equal
- Capacity of a StringBuilder

Tuple

- What is Tuple in C#?
- What is ValueTuple in C#?
- ValueTuple Struct

Indexers & Properties

- Indexers
- Multidimensional Indexers
- Overloading of Indexers
- Properties
- Restrictions on Properties

Inheritance

- Inheritance in C#
- Multilevel Inheritance
- Multiple inheritance using interfaces
- Inheritance in Constructors
- Inheritance in Interfaces
- Abstract Classes
- Using sealed class to Prevent Inheritance
- Object Class

Interfaces

- Interface in C#
- How to use Interface References
- How to Implement Multiple Interfaces Having Same Method Name
- Difference between Abstract Class and Interface
- Delegates vs Interfaces
- Explicit Interface Implementation

Multithreading

- Introduction to Multithreading
- Types of Threads
- How to create Threads
- Main Thread



- Lifecycle and States of a Thread
- Thread Class
- Scheduling a thread for Execution
- Check whether a Thread is Alive or not
- Joining Threads
- Terminating a Thread
- Check whether a thread is a background thread or not
- Naming a thread and fetching name of current thread
- Thread Priority in Multithreading

Exception Handling

- Exceptions
- System Level Exception vs Application Level Exception
- How to use Multiple Catch Clause
- Nesting of try and catch blocks
- Using finally

Collections & Generics

- List
- SortedList with Examples
- HashSet
- SortedSet
- Dictionary with Examples
- SortedDictionary
- Hashtable with Examples
- Stack with Examples
- Queue with Examples
- LinkedList
- Hashtable vs Dictionary
- SortedList vs SortedDictionary

Collections Namespace

- C# | Stack Class
- C# | Queue Class
- C# | Array Class
- C# | ArrayList Class
- C# | Hashtable Class
- C# | BitArray Class
- C# | SortedList Class

Generic Namespace

- C# | HashSet<T> Class
- C# | LinkedList<T> Class



- C# | List<T> Class
- C# | SortedSet<T> Class
- Dictionary Class
- SortedDictionary Class

System Namespace

- BitConverter Class
- Console Class
- Convert Class
- Index Struct

Windows Forms

- What is Windows Forms(WF) in C#?
- Button Control
- Label Control
- RadioButton Control
- CheckBox Control
- TextBox Control
- ComboBox Control
- ToolTip Class
- RichTextBox Class
- MaskedTextBox Class
- NumericUpDown Class
- DateTimePicker Class
- ListBox Class
- GroupBox Class
- FlowLayoutPanel Class

Reference books

- 1."Effective C#" by Bill Wagner
- 2."C# 4.0 The Complete Reference" by Herbert Schildt
- 3."Beginning Visual C# 2010" by Karli Watson
- 4."Essential C# 4.0" by Mark Michaelis and Eric Lippert
- 5."Programming in C#" by Balagurusamy
- 6."C# in Depth" by Jon Skeet
- 7."Head First C#: A Learner's Guide to Real-World Programming with C#, XAML, and .NET" by Jennifer Greene and Andrew Stellman



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TALUKA - SHAHAPUR, DIST-THANE, STATE-MAHARASHTRA

Department of Information Technology.

Short term course- C# programming

Board of studies-2019-2020

NO	NAME	ROLL NO	CLASS	SIGNATURE
1	BHERE RUSHIKESH VITTHAL	196203	SYIT	<u>Vitthal</u>
2	KIRPAN POOJA RAMESH	196219	SYIT	<u>P Kirpan</u>
3	KHOSE HARISH SANTOSH	196218	SYIT	<u>H K hose</u>
4	MHASAL SUNIL DEVIDAS	196221	SYIT	<u>Sunil</u>
5	JADHAV SWAPNIL VISHNU	196215	SYIT	<u>Swapnil</u>
6	NICHITE NIKHIL SINIL	196222	SYIT	<u>N. Nichite</u>
7	GOLE MANALI VINOD	196213	SYIT	<u>Gole</u>
8	GOLHAIT TATHAGAT MILIND	196214	SYIT	<u>T Golhait</u>
9	DAMSE DHANANJAY VINAYAK	196207	SYIT	<u>D Damse</u>
10	LENDE DNYANESHWAR NAMDEV	196220	SYIT	<u>Lende</u>
11	KHAN JUBAID ASHRAFHUSAIN	196217	SYIT	<u>M. Gode</u>
12	GODE MAHENDRA RAMDAS	196212	SYIT	<u>M. Gode</u>
13	KANKOSHE SURAJ SANJAY	196216	SYIT	<u>SSK</u>
14	GAWAI ATUL KUNDLIK	196209	SYIT	<u>Atul</u>
15	CHAUDHARI AJIT GURUNATH	196205	SYIT	<u>Ajit Chaudhary</u>
16	GILANDE VINAYAK KALU	196211	SYIT	<u>Vinayak</u>
17	CHOGALE KEDAR DATTARAM	196206	SYIT	<u>Kedar</u>
18	GHOTE AKSHADA BHALCHANDRA	196210	SYIT	<u>Akshada</u>
19	DHANDE BHUSHAN LAXMAN	196208	SYIT	<u>Bhushan</u>
20	BHOIR MAYURI KONDU	196204	SYIT	<u>M. Boir</u>
21	BHERE RESHMA EKANTH	196202	SYIT	<u>Reshma</u>



Jeevandeep Shaikshnik Sanstha
Arts, Commerce and Science College, Khardi
Tal. Shahapur. Dist. Thane
(Affiliated to Mumbai University)

attendance sheet 2019-20

NO	NAME	ROLL NO	11.01.20	13.01.20	14.01.20	15.01.20	16.01.20
1	BHERE RUSHIKESH VITTHAL	196203	Vitthal	Vitthal	Vitthal	Vitthal	Vitthal
2	KIRPAN POOJA RAMESH	196219	Pooja	Pooja	Pooja	Pooja	Pooja
3	KHOSE HARISH SANTOSH	196218	Hsmhasa	Hsmhasa	Hsmhasa	Hsmhasa	Hsmhasa
4	MHASAL SUNIL DEVIDAS	196221	Sujahar	Sujahar	Sujahar	Sujahar	Sujahar
5	JADHAV SWAPNIL VISHNU	196215	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil
6	NICHITE NIKHIL SINIL	196222	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil
7	GOLE MANALI VINOD	196213	MVGole	MVGole	MVGole	MVGole	MVGole
8	GOLHAT TATHAGAT MILIND	196214	Milind	Milind	Milind	Milind	Milind
9	DAMSE DHANANJAY VINAYAK	196207	Damse	Damse	Damse	Damse	Damse
10	LENDE DNYANESHWAR NAMDEV	196220	DN Lende	DN Lende	DN Lende	DN Lende	DN Lende
11	KHAN JUBAID ASHRAFHUSAIN	196217	Jakhau	Jakhau	Jakhau	Jakhau	Jakhau
12	GODE MAHENDRA RAMDAS	196212	MVGode	MVGode	MVGode	MVGode	MVGode
13	KANKOSHE SURAJ SANJAY	196216	Suraj	Suraj	Suraj	Suraj	Suraj
14	GAWAI ATUL KUNDLIK	196209	Atul	Atul	Atul	Atul	Atul
15	CHAUDHARI AJIT GURUNATH	196205	AGC	AGC	AGC	AGC	AGC
16	GILANDE VINAYAK KALU	196211	VKG	VKG	VKG	VKG	VKG
17	CHOGALE KEDAR DATTARAM	196206	Kedar	Kedar	Kedar	Kedar	Kedar
18	GHOTE AKSHADA BHALCHANDRA	196210	ABG	ABG	ABG	ABG	ABG
19	DHANDE BHUSHAN LAXMAN	196208	Bhushan	Bhushan	Bhushan	Bhushan	Bhushan
20	BHOIR MAYURI KONDU	196204	Mayuri	Mayuri	Mayuri	Mayuri	Mayuri
21	BHERE RESHMA EKANATH	196202	Reshma	Reshma	Reshma	Reshma	Reshma



Jeevandeeep Shaikshnik Sanstha
Arts, Commerce and Science College, Khardi
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attendance sheet 2019-20

NO	NAME	ROLL NO	17.01.20	18.01.20	20.01.20	21.01.20	22.01.20	23.01.20	24.01.20	25.01.20
1	BHARE RUSHIKESH VITTHAL	196203	Vitthal	Vitthal	Vitthal	Vitthal	Vitthal	Vitthal	Vitthal	Vitthal
2	KIRPAN POOJA RAMESH	196219	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
3	KHOSE HARISH SANTOSH	196218	Hskhose	Hskhose	Hskhose	Hskhose	Hskhose	Hskhose	Hskhose	Hskhose
4	MHASAL SUNIL DEVIDAS	196221	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil
5	JADHAV SWAPNIL VISHNU	196215	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil	Swapnil
6	NICHITE NIKHIL SINIL	196222	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil
7	GOLE MANALI VINOD	196213	Manali	Manali	Manali	Manali	Manali	Manali	Manali	Manali
8	GOLHAIT TATHAGAT MILIND	196214	Milind	Milind	Milind	Milind	Milind	Milind	Milind	Milind
9	DAMSE DHANANJAY VINAYAK	196207	Damse	Damse	Damse	Damse	Damse	Damse	Damse	Damse
10	LENDE DNYANESHWAR NAMDEV	196220	Namdev	Namdev	Namdev	Namdev	Namdev	Namdev	Namdev	Namdev
11	KHAN JUBAID ASHRAFHUSAIN	196217	Jubaid	Jubaid	Jubaid	Jubaid	Jubaid	Jubaid	Jubaid	Jubaid
12	GODE MAHENDRA RAMDAS	196212	Ramdas	Ramdas	Ramdas	Ramdas	Ramdas	Ramdas	Ramdas	Ramdas
13	KANKOSHE SURAJ SANJAY	196216	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj	Suraj
14	GAWAI ATUL KUNDLIK	196209	Atul	Atul	Atul	Atul	Atul	Atul	Atul	Atul
15	CHAUDHARI AJIT GURUNATH	196205	Ajit	Ajit	Ajit	Ajit	Ajit	Ajit	Ajit	Ajit
16	GILANDE VINAYAK KALU	196211	Vinayak	Vinayak	Vinayak	Vinayak	Vinayak	Vinayak	Vinayak	Vinayak
17	CHOGALE KEDAR DATTARAM	196206	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar	Kedar
18	GHOTE AKSHADA BHALCHANDRA	196210	Akshada	Akshada	Akshada	Akshada	Akshada	Akshada	Akshada	Akshada
19	DHANDE BHUSHAN LAXMAN	196208	Bhushan	Bhushan	Bhushan	Bhushan	Bhushan	Bhushan	Bhushan	Bhushan
20	BHOIR MAYURI KONDU	196204	Mayuri	Mayuri	Mayuri	Mayuri	Mayuri	Mayuri	Mayuri	Mayuri
21	BHARE RESHMA EKANATH	196202	Reshma	Reshma	Reshma	Reshma	Reshma	Reshma	Reshma	Reshma



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Department of Information Technology.

Board of studies-2019-2020

Date **15/1/2020**

Notice

All student of S.Y.BSc (IT) are hereby information that ,Examination for the short term course "C# programming "will be held from 28/1/2020 .The test will be of 50 marks objective type ,Absent students will not be entertained .All students should remain present. Detailed Time table Display on Notice Board.

Course Coordinator



Principal

Jeevandeep Shaikshanik Sanstha's
Art's, Commerce & Science College, Khardi
Khardi, Tal Shahapur, Dist. Thane 421 601.

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Department of Information Technology.

Short term course- C# programming

Board of studies-2019-2020

Date: 15/01/2020

C# Programming (Short Term Course) Theory Examination -
January-2020 Time Table

Sr. No.	Day/Date	Time	Seat No.	Total Students
1	Tuesday 28/1/2020	12.00PM to 1.00PM	196203, 196219, 196218, 196221, 196215, 196222, 196213, 196211, 196212, 1 96214, 196207, 196220, 196217, 196216, 196209, 196205, 196206, 196210, 1 96208, 196204, 196202	21

Instructions:

1. The candidate should be present at least 15 min. before the start of theory examination. Candidate coming late may not be examined.
2. Candidate should bring their college id entity card.
3. Use of mobile phones and other electronic gadgets are strictly prohibited in the examination hall.



Jeevandeep Shaikshanik Sanstha's

**ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
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Department of Information Technology.

Short term course- C# programming

Board of studies-2019-2020

Theory attendances sheet

NO	NAME	ROLL NO	CLASS	SIGNATURE
1	BHERE RUSHIKESH VITTHAL	196203	SYIT	<u>Vittal</u>
2	KIRPAN POOJA RAMESH	196219	SYIT	<u>P.Kirpan</u>
3	KHOSE HARISH SANTOSH	196218	SYIT	<u>H.K.hose</u>
4	MHASAL SUNIL DEVIDAS	196221	SYIT	<u>Sunil</u>
5	JADHAV SWAPNIL VISHNU	196215	SYIT	<u>Swapnil</u>
6	NICHITE NIKHIL SINIL	196222	SYIT	<u>N.Nichite</u>
7	GOLE MANALI VINOD	196213	SYIT	<u>Gole</u>
8	GOLHAIT TATHAGAT MILIND	196214	SYIT	<u>T.golhait</u>
9	DAMSE DHANANJAY VINAYAK	196207	SYIT	<u>D.Damse</u>
10	LENDE DNYANESHWAR NAMDEV	196220	SYIT	<u>Kham</u>
11	KHAN JUBAID ASHRAFHUSAIN	196217	SYIT	<u>M.Gode</u>
12	GODE MAHENDRA RAMDAS	196212	SYIT	<u>M.Gode</u>
13	KANKOSHE SURAJ SANJAY	196216	SYIT	<u>SSK</u>
14	GAWAI ATUL KUNDLIK	196209	SYIT	<u>Atul</u>
15	CHAUDHARI AJIT GURUNATH	196205	SYIT	<u>Achou chom</u>
16	GILANDE VINAYAK KALU	196211	SYIT	<u>Vinayak</u>
17	CHOGALE KEDAR DATTARAM	196206	SYIT	<u>Kedar</u>
18	GHOTE AKSHADA BHALCHANDRA	196210	SYIT	<u>Akshada</u>
19	DHANDE BHUSHAN LAXMAN	196208	SYIT	<u>Bhushan</u>
20	BHOIR MAYURI KONDU	196204	SYIT	<u>M.Bhoir</u>
21	BHERE RESHMA EKANATH	196202	SYIT	<u>Reshma</u>



Jeevandeep Shaikshanik Sanstha's Arts, Commerce and Science College,

Khaldi.2019-2020

Department information Technology

Short term Course - C# Programming

Subject C#programming

Marks= 50

Time= 1 hour

1) C# is a programming language, developed by ____.

- A. Oracle
- B. Microsoft
- C. GNU project
- D. Google

Ans _____

2) C# runs on the ____.

- A. .NET Framework
- B. Java Virtual Machine
- C. Both A. and B.
- D. None of the above

Ans _____

3) Is C# an object-oriented programming language?

- A. Yes
- B. No

Ans _____

4) What is the extension of a C# language file?

- A. .c
- B. .cpp
- C. .cs
- D. .csp



Ans _____

5) Who is the founder of C# programming language?

- A. Anders Hejlsberg
- B. Douglas Crockford
- C. Rasmus Lerdorf
- D. Brendan Eich

Ans _____

6) Is C# a structured programming language?

- A. Yes
- B. No

Ans _____

7) .Net CLR is equivalent to?

- A. Common Type System
- B. Common Language Specification
- C. Common Language Runtime
- D. Java Virtual Machine

Ans _____

8) SOAP in C# stands for ____.

- A. Simple Object Access Protocol
- B. Simple Object Access Program
- C. Standard Object Access Protocol
- D. Standard Object Access Program

Ans _____

9) Every C# statement is terminated by ____.

- A. Colon (:)
- B. Semicolon (;)



- C. Comma (,)
- D. Dot (.)

Ans _____

10) In C#, the multi-line comments placed within the ____.

- A. // and //
- B. \ and //
- C. <!-- and -->
- D. /* and */

Ans _____

11) Which data type is used to store text value in C#?

- A. text
- B. txt
- C. string
- D. Str

Ans _____

12) What is the correct syntax to define a C# constant?

- A. const type constant_name;
- B. const type constant_name = value;
- C. const constant_name as type;
- D. const constant_name as type = value;

Ans _____

13) What will be the output of the following C# code?

```
using System;
namespace MyApplication {
class Program {
static void Main(string[] args) {
bool x = true;
Console.WriteLine(Convert.ToString(x));
}
```



```
}  
}  
}
```

- A. True
- B. False

Ans _____

14) What will be the output of the following C# code?

```
using System;  
namespace MyApplication {  
    class Program {  
        static void Main(string[] args) {  
            Console.WriteLine("Enter a number:");  
            int num = Console.ReadLine();  
            Console.WriteLine("Given number is: " + num);  
        }  
    }  
}
```

- A. Given number is:123
- B. Given number is: 123
- C. Given number is: "123"
- D. Error

Ans _____

15) . What will be the output of the following C# code?

```
using System;  
namespace MyApplication {  
    class Program {  
        static void Main(string[] args) {  
            int a = 10, b = 20;  
            Console.WriteLine("{0},{0}", a, b);  
        }  
    }  
}
```

- A. 10,10



- B. 10,20
- C. 20,20
- D. Error

Ans _____

16) What will be the output of the following C# code?

```
using System;
class Program {
static void Main(string[] args) {
    Console.WriteLine(true ^ true);
}
}
```

- A. True
- B. False
- C. Error
- D. None

Ans _____

17) Does C# support goto statement?

- A. Yes
- B. No

Ans _____

18) Which C# keyword is used to coming out from the loop?

- A. break
- B. continue
- C. Both A and B
- D. None of the above

Ans _____



19) Except == operator, which methods can be used to compare two strings?

- A. Equals()
- B. Compare()
- C. Both A and B
- D. None of these

Ans _____

20) What is String.Length in C#?

- A. Property
- B. Method
- C. Constructor
- D. Both A and B

Ans _____

21) In C#, by default, the default interface methods are ____.

- A. virtual
- B. sealed
- C. private
- D. public

Ans _____

22) Which of the following cannot be used to declare an interface in C#?

- A. Methods
- B. Properties
- C. Events
- D. Structures

Ans _____

23) Which of the access specifier is used in interface in C#?

- A. private
- B. public



- C. protected
- D. All of the above

Ans _____

24) **C# pointer is used to store the ___ of another type.**

- A. Value
- B. Memory address
- C. Size of the type
- D. Reference of the variable

Ans _____

25) **In C#, a namespace is the collection of classes?**

- A. True
- B. False

Ans _____



JeevandeepShaikshanikSanstha's
ART'S, COMMERCE& SCIENCE COLLEGE, KHARDI
TALUKA - SHAHAPUR,DIST-THANE,STATE-MAHARASHTRA
Department of Information Technology.

Board of studies-2019-2020

Date **22/01/2020**

Notice

All student of S.Y.BSc (IT) are hereby information that ,Examination for the short term course "C # Programming "will be held from Monday 27/1/2020.The test will be of 50 marks practical ,Absent students will not be entertained .All students should remain present.
Detailed Time table Display on Notice Board.

Course Coordinator




Principal
Jeevandeep Shaikshanik Sanstha Poi's
Art's, Commerce & Science College Khardi
Khardi, Tal. Shahapur, Dist. Thane 421 601.

Jeevandeep Shaikshanik Sanstha's
ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TALUKA - SHAHAPUR, DIST - THANE, STATE - MAHARASHTRA

Department of Information Technology.

Short term course- C# programming

Board of studies-2019-2020

Date: 22/01/2020

C# Programming (Short Term Course) Practical Examination

January-2020 TimeTable

Sr. No.	Day/Date	Time	Seat No.	Total Students
1	Monday 27/1/2020	12.00 To 2.00 pm	196203,196219, 196218, 196221, 196215, 196222, 196213,196211,196212,1 96214,196207, 196220, 196217, 196216, 196209, 196205,196206,196210,1 96208,196204,196202	21

Instructions:

1. The candidate should be present at least 15 min. before the start of theory examination. Candidate coming late may not be examined.
2. Candidate should bring their college id entity card.
3. Use of mobile phones and other electronic gadgets are strictly prohibited in the examination hall.



Jeevandeep Shaikshanik Sanstha's

**ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TALUKA - SHAHAPUR, DIST-THANE, STATE-MAHARASHTRA**

Department of Information Technology.

Short term course- C# programming

Board of studies-2019-2020 **PRACTICAL SHEET**

NO	NAME	ROLL NO	CLASS	SIGNATURE
1	BHERE RUSHIKESH VITTHAL	196203	SYIT	<u>Vitthal</u>
2	KIRPAN POOJA RAMESH	196219	SYIT	<u>P.R Kirpan</u>
3	KHOSE HARISH SANTOSH	196218	SYIT	<u>H.Khose</u>
4	MHASAL SUNIL DEVIDAS	196221	SYIT	<u>Sunil</u>
5	JADHAV SWAPNIL VISHNU	196215	SYIT	<u>Swapnil</u>
6	NICHITE NIKHIL SINIL	196222	SYIT	<u>N. Nichite</u>
7	GOLE MANALI VINOD	196213	SYIT	<u>Gole</u>
8	GOLHAIT TATHAGAT MILIND	196214	SYIT	<u>T. golhait</u>
9	DAMSE DHANANJAY VINAYAK	196207	SYIT	<u>Damse</u>
10	LENDE DNYANESHWAR NAMDEV	196220	SYIT	<u>Khan</u>
11	KHAN JUBAID ASHRAFHUSAIN	196217	SYIT	<u>M. Gode</u>
12	GODE MAHENDRA RAMDAS	196212	SYIT	<u>M. Gode</u>
13	KANKOSHE SURAJ SANJAY	196216	SYIT	<u>SSK</u>
14	GAWAI ATUL KUNDLIK	196209	SYIT	<u>Atul</u>
15	CHAUDHARI AJIT GURUNATH	196205	SYIT	<u>A. Chaudhary</u>
16	GILANDE VINAYAK KALU	196211	SYIT	<u>Vinoyak</u>
17	CHOGALE KEDAR DATTARAM	196206	SYIT	<u>Kedar</u>
18	GHOTE AKSHADA BHALCHANDRA	196210	SYIT	<u>Akhada</u>
19	DHANDE BHUSHAN LAXMAN	196208	SYIT	<u>Bhushan</u>
20	BHOIR MAYURI KONDU	196204	SYIT	<u>M. Bhoir</u>
21	BHERE RESHMA EKANATH	196202	SYIT	<u>Reshma</u>



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TALUKA - SHAHAPUR, DIST-THANE, STATE-MAHARASHTRA**

Department of Information Technology.

Short term course- C# programming

Board of studies-2019-2020

THEORY MARKS SHEET

NO	NAME	ROLL NO	CLASS	MARKS
1	BHERE RUSHIKESH VITTHAL	196203	SYIT	32
2	KIRPAN POOJA RAMESH	196219	SYIT	32
3	KHOSE HARISH SANTOSH	196218	SYIT	34
4	MHASAL SUNIL DEVIDAS	196221	SYIT	34
5	JADHAV SWAPNIL VISHNU	196215	SYIT	34
6	NICHITE NIKHIL SINIL	196222	SYIT	34
7	GOLE MANALI VINOD	196213	SYIT	40
8	GOLHAIT TATHAGAT MILIND	196214	SYIT	34
9	DAMSE DHANANJAY VINAYAK	196207	SYIT	32
10	LENDE DNYANESHWAR NAMDEV	196220	SYIT	32
11	KHAN JUBAID ASHRAFHUSAIN	196217	SYIT	34
12	GODE MAHENDRA RAMDAS	196212	SYIT	34
13	KANKOSHE SURAJ SANJAY	196216	SYIT	36
14	GAWAI ATUL KUNDLIK	196209	SYIT	32
15	CHAUDHARI AJIT GURUNATH	196205	SYIT	30
16	GILANDE VINAYAK KALU	196211	SYIT	44
17	CHOGALE KEDAR DATTARAM	196206	SYIT	40
18	GHOTE AKSHADA BHALCHANDRA	196210	SYIT	46
19	DHANDE BHUSHAN LAXMAN	196208	SYIT	40
20	BHOIR MAYURI KONDU	196204	SYIT	42
21	BHERE RESHMA EKANTH	196202	SYIT	34



Principal

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Jeevandeep Shaikshanik Sanstha's
ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TALUKA - SHAHAPUR, DIST-THANE, STATE-MAHARASHTRA
Short term course- C# programming

Board of studies-2019-2020 **PRACTICAL MARKS LIST**

NO	NAME	ROLL NO	Practical/40	Oral/10	Total/50
1	BHERE RUSHIKESH VITTHAL	196203	27	5	32
2	KIRPAN POOJA RAMESH	196219	26	6	32
3	KHOSE HARISH SANTOSH	196218	31	05	36
4	MHASAL SUNIL DEVIDAS	196221	29	05	34
5	JADHAV SWAPNIL VISHNU	196215	29	05	34
6	NICHITE NIKHIL SINIL	196222	29	05	34
7	GOLE MANALI VINOD	196213	31	06	37
8	GOLHAIT TATHAGAT MILIND	196214	29	05	34
9	DAMSE DHANANJAY VINAYAK	196207	31	06	37
10	LENDE DNYANESHWAR NAMDEV	196220	30	04	34
11	KHAN JUBAID ASHRAFHUSAIN	196217	31	06	37
12	GODE MAHENDRA RAMDAS	196212	30	05	35
13	KANKOSHE SURAJ SANJAY	196216	30	08	38
14	GAWAI ATUL KUNDLIK	196209	35	06	41
15	CHAUDHARI AJIT GURUNATH	196205	32	07	39
16	GILANDE VINAYAK KALU	196211	30	06	36
17	CHOGALE KEDAR DATTARAM	196206	29	06	35
18	GHOTE AKSHADA BHALCHANDRA	196210	30	05	35
19	DHANDE BHUSHAN LAXMAN	196208	31	05	36
20	BHOIR MAYURI KONDU	196204	30	05	35
21	BHERE RESHMA EKANATH	196202	32	07	39



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Short term course- C# programming

NO	NAME	ROLL NO	Theory	Practical	Total
1	BHERE RUSHIKESH VITTHAL	196203	32	32	64
2	KIRPAN POOJA RAMESH	196219	32	32	64
3	KHOSE HARISH SANTOSH	196218	34	36	70
4	MHASAL SUNIL DEVIDAS	196221	34	34	68
5	JADHAV SWAPNIL VISHNU	196215	34	34	68
6	NICHITE NIKHIL SINIL	196222	34	34	68
7	GOLE MANALI VINOD	196213	40	37	77
8	GOLHAIT TATHAGAT MILIND	196214	34	34	68
9	DAMSE DHANANJAY VINAYAK	196207	32	37	69
10	LENDE DNYANESHWAR NAMDEV	196220	32	34	66
11	KHAN JUBAID ASHRAFHUSAIN	196217	34	37	71
12	GODE MAHENDRA RAMDAS	196212	34	35	69
13	KANKOSHE SURAJ SANJAY	196216	36	38	74
14	GAWAI ATUL KUNDLIK	196209	32	41	73
15	CHAUDHARI AJIT GURUNATH	196205	30	39	69
16	GILANDE VINAYAK KALU	196211	44	36	80
17	CHOGALE KEDAR DATTARAM	196206	40	35	75
18	GHOTE AKSHADA BHALCHANDRA	196210	46	35	81
19	DHANDE BHUSHAN LAXMAN	196208	40	36	76
20	BHOIR MAYURI KONDU	196204	42	35	77
21	BHERE RESHMA EKANATH	196202	34	39	73





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TALUKA - SHAHAPUR, DIST-THANE, STATE-MAHARASHTRA

Short term course- C# programming

DEPARTMENT OF INFORMATION TECHNOLOGY

Report

Date : 30/01/2020

The Department of Information technology JSSP College, Khardi conducted a short term course entitled "C# programming". total 20 students of B.Sc(IT).were admitted in the course. The duration of course was 15 days (11.01.2020 to 25.01.2020).The course was conducted satisfactorily by the Dept.of Information Technology JSSP College , Khardi, Dist :Thane.

Principal



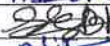
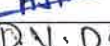
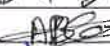
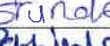
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ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TALUKA - SHAHAPUR, DIST-THANE, STATE-
MAHARASHTRA

Department of Information Technology.

Short term course- Software Testing

Board of studies-2019-2020 **THEORY SHEET**

SR.NO	STUDENT NAME	STD	Signature
1	BALKHANDE RAJRATNA SONAJI	183201	
2	BHERE RESHMA EKNATH	183202	
3	BHERE RUSHIKESH VITTHAL	183203	
4	BHOIR MAYURI KONDU	183204	
5	BHOIR SANKET SANTOSH	183205	
6	CHAUDHARI AJIT GURUNATH	183206	
7	DAMSE DHANANJAY VINAYAK	183207	
8	GHOTE AKSHADA BHALCHANDRA	183208	
9	GILANDE VINAYAK KALU	183209	
10	GODE NARAYAN RAMDAS	183210	
11	GOLE MANALI VINOD	183211	
12	HUSSAIN JUBAIDKHAN ASHRAF	183212	
13	KHANDAGALE APURVA BHAGAVAN	183213	
14	KIRPAN POOJA RAMESH	183214	
15	MHASAL SUNIL DEVIDAS	183215	
16	NICHITE NIKHIL SUNIL	183216	
17	NICHITE SAGAR BHAU	183217	
18	PALEKAR VISHAL YASHWANT	183218	
19	PASHTTE PRATIK PRAVIN	183219	
20	RATHOD PRATIK VINOD	183220	
21	SAGBHOR BHAGWAN SHANKAR	183221	
22	SHINDE PRIYANKA CHINTAMAN	183222	
23	THORAT ABHIJEET SHASHIKANT	183223	
24	UBALE KAPIL PRAKASH	183224	
25	UBALE NITESH MUKUND	183225	
26	VISHE VRUSHABH CHANDRAKANT	183226	
27	YADAV MADHURI GANESH	183227	
28	DINGORE ANIKET ASHOK	183228	



29	CHAUDHARI DILIP TUKARAM	183229	D T Chaudhari
30	PATHAN ANAM ASLAM	183230	Pathan Anam
31	GOLHAIT TATHAGAT MILIND	183231	TM Golhait
32	SHAIKH SAJID KHALID	183232	Sajid
33	DHANDE BHUSHAN LAXMAN	183233	Dhan
34	GAWAI ATUL KUNDLIK	183234	Atul
35	LAD DAMINI HARISH	183235	Lad Damini
36	SONAWANE GAURAV VISHWANATH	183236	G Sonawane
37	BASHINGE HEMANT PRAKASH	186201	Bhashinge
38	BHAGAT AKASH CHHAGAN	186202	Bhagat Akash
39	BHAGDE VIJAY PRABHAKAR	186203	Vijay
40	/BHANGARE SANTOSHI VISHNU	186204	Bhangare
41	BHASKAR ANIKET YASHWANT	186205	Aniket
42	/BONDRE VANITA VIJAY	186206	Bondre
43	BURHADE MANGESH VIKRANT	186207	Burhade
44	CHAVRE SANCHIT NAVNATH	186208	Chavre
45	DANGAT TEJAS SHRIDHAR	186209	Dangate
46	DHAMNE AKSHAY RAGHUNATH	186210	Akshay
47	FARDE DURWESH NAMDEV	186211	Farde
48	GAWALI ATUL BHARAT	186212	Gawali
49	GORALE DIPAK DASHARATH	186214	Gorale
50	GUJAR PRATHAMESH VIKAS	186215	Prathamesh
51	/JADHAV SONALI YASHWANT	186216	Jadhav
52	JAKHERE RAKESH SONALI	186217	Jakhere
53	KADAV VINOD PANDHARINATH	186218	Kadav
54	LOBHI RAVINDRA KALURAM	186219	Lobhi
55	LOKHANDE SUNIL BHAURAO	186220	Sunil
56	MONDHULA KALPESH NAMDEV	186221	Kalpesh
57	PATIL SHUBHAM SANGRAM	186222	Shubham
58	PATOLE VISHWAS PANDHARINATH	186223	Patole
59	RATHOD AMOL UDAYSINGH	186224	Rathod
60	SABALE ANIKET NAMDEV	186225	Sabale
61	SAWANT PRATHAMESH RAVIKANT	186226	Sawant
62	TITKARE PRASHANT JAYWANT	186227	Titkar
63	UBALE JAYESH ARUN	186228	Jayesh
64	SOGIR SUMIT ANIL	186229	Sogir
65	WATEKAR AKSHAY SUNIL	186230	Watekar
66	ADWALE JAGDISH BHAGWAN	186231	Adwale
67	SHIROLE BHUSHAN SURESH	186232	Shirole
68	BHOIR SAMEER BHARAT	186233	Bhoir
69	WARAVATE SAGAR PANDURANG	186234	Waravate
70	BHANGARE KRUSHANA VILAS	186235	Bhangare
71	BHOIR VAIBHAV GANESH	186236	Bhoir
72	/THAKUR PRAJAKTA BAJIRAV	186237	Thakur
73	/CHAVAN VINAYA JAYANT	186238	Chavan
74	KHAIRNAR SHASHIKANT HANSRAJ	186239	Shashikant
75	THAKARE ABHISHEK BALIRAM	186240	Thakare
76	/JADHAV VARSHA SUDAM	189222	Jadhav
77	/LENDE YASHODA NANDU	189204	Lende



78	/SALUNKHE SHWETA KISAN	189221	<u>Salunkhe</u>
79	/SUTAR BHAGYSHREE ASHOK	189208	<u>Bhagyshree</u>
80	/VISHE RESHMA MADHUKAR	189209	<u>Reshma</u>
81	BHARMAL SAGAR MADHUKAR	189201	<u>Sagar</u>
82	DARADE SURAJ HIRAMAN	189202	<u>Suraj</u>
83	FARDE MAYUR CHANDRAKANT	189211	<u>Mayur</u>
84	GAWALE MAYAVATI MAGAN	189220	<u>Mm Gawale</u>
85	GHODVINDE VIKRANT MARUTI	189218	<u>Vikrant</u>
86	INGOLE BHIMASHISH SHREERANG	189217	<u>Bhimashish</u>
87	JADHAV VITTHAL SAMPAT	189203	<u>Vitthal</u>
88	KAKAD GANESH SURYABHAN	189215	<u>Ganesh</u>
89	PAWAR MAYUR ARUN	189205	<u>Mayur</u>
90	RAJBHAR SONU BHUVAL	189212	<u>Sonu</u>
91	ROKADE VISHAL RAJESH	189206	<u>Vishal</u>
92	SAHANE RAVINDRA PRABAKAR	189219	<u>Ravindra</u>
93	SALVE DISHANT POPAT	189216	<u>Dishant</u>
94	SHINDE AKSHAY DEEPAK	189214	<u>Akshay</u>
95	SONPAROTE AMIT RAJENDRA	189207	<u>Amit</u>
96	VARKUTE VIKRANT KISAN	189213	<u>Vikrant</u>
97	WAGH AKSHAY UTTAM	189210	<u>Akshay</u>



**Jeevandeep Shaikshanik Sanstha's
ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TALUKA - SHAHAPUR, DIST-THANE, STATE-MAHARASHTRA
Short term course- C# programming
2019-2020**







JEEVANDDEEP SHAIKHANIK SANSTHA PO'S
ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TAL- SHAHAPUR, DIST-THANE 421601
(Permanently affiliated to University of Mumbai)



CERTIFICATE OF COMPLETION

Mr/Ms. BHERE RUSHIKESH VITTHAL has successfully attended the short

Term course on C# PROGRAMMING 30 hours duration 11.01.20 to 25.01.20 organised by

the Department of Information Technology.

Congratulations and best wishes for the future!

C. Kalkate

Asst. prof. Kailas Kalkate
principal



Dr. R. N. Ghodvande

Mr. R. N. Ghodvande
Chairman



JEEVANDEEP SHAIKHANIK SANSTHA PO'S
ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TAL- SHAHAPUR, DIST-THANE 421601
(Permenently affiliated to University of Mumbai)

CERTIFICATE OF COMPLETION

Mr/Ms. JADHAV SWAPNIL VISHNU has successfully attended the short
Term course on C# PROGRAMMING 30 hours duration 11.01.20 to 25.01.20 organised by
the Department of Information Technology.
Congratulations and best wishes for the future!

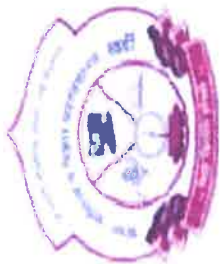
Asst. Prof. Kailas Kalkate

Asst. prof. Kailas Kalkate
principal



Mr. R. N. Ghodvinde

Mr. R. N. Ghodvinde
Chairman



JEEVANDEEP SHAIKHANIK SANSTHA PO'S
ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TAL- SHAHAPUR, DIST-THANE 421601
(Permenently affiliated to University of Mumbai)

CERTIFICATE OF COMPLETION

Mr/Ms. GOLE MANALI VINOD has successfully attended the short
Term course on C# PROGRAMMING 30 hours duration 11.01.20 to 25.01.20 organized by
the Department of Information Technology.

Congratulations and best wishes for the future!

Asst.prof.Kailas Kalkate
principal



D. Ghodvinde

Mr.R.N.Ghodvinde
Chairman



JEEVANDEEP SHAIKHANIK SANSTHA POIT'S
ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TAL- SHAHAPUR, DIST-THANE 421601
(Permanently affiliated to University of Mumbai)

CERTIFICATE OF COMPLETION

Mr/Ms. GAWAI ATUL KUNDLIK has successfully attended the short
Term course on C# PROGRAMMING 30 hours duration 11.01.20 to 25.01.20 organised by
the Department of Information Technology.
Congratulations and best wishes for the future!

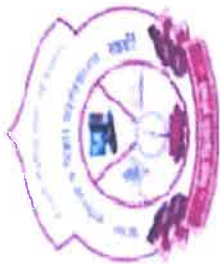
Signature

ASST. Prof. Kailas Kalkate
principal



Signature

Mr. R. N. Ghodvinde
Chairman



JEEVANDEEP SHAIKHANIK SANSTHA POI'S
ART'S, COMMERCE & SCIENCE COLLEGE, KHARDI
TAL- SHAHAPUR, DIST-THANE 421601
(Permenently affiliated to University of Mumbai)

CERTIFICATE OF COMPLETION

Mr/Ms. BHERE RUSHIKESH VITTHAL has successfully attended the short
Term course on C# PROGRAMMING 30 hours duration 11.01.20 to 25.01.20 organised by

the Department of Information Technology.

Congratulations and best wishes for the future!

Signature

Asst. prof. Kailas Kalkate
principal



Signature

Mr. R. N. Ghodvinde
Chairman