

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College Kolhapur
Department of Mathematics
A Report on Short Term Course
"Introduction to C-Programming"
2019-20


The Department of Mathematics, Rajarshi Chhatrapati Shahu College, Kolhapur organized a short term course on "Introduction to C-Programming" for F.Y.B.Sc. students in the college. In this course students learn how to create a program for simple mathematical problems. Also how we can solve the iterated problems in mathematics by using C-programming. This course has 42 lectures. Started from 01/02/2020 and it is conducted by Mr. Bathe P.T. 04 Students are successfully completed this course.

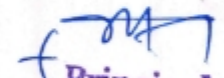
Outcomes: After completion of this course students will be able to:

- Create new program in C-programming
- Solve mathematical problems by using C-programming.

No. of Beneficiaries:04




Head
Department of Mathematics
Rajarshi Chh. Shahu College
Kolhapur.



Principal,
Rajarshi Chh. Shahu College
Kolhapur.

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College Kolhapur
Department of Mathematics

Notice

Date: 28/01/2020

All students of the T.Y.B.Sc. mathematics informed that the department organizes a short term course on Introduction to C-Programming so kindly attend the same. Programme starts from 01/02/2020 @ computer lab.


Head
Department of Mathematics
Rajarshi Chh. Shahu College
Kolhapur.



**Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College Kolhapur
Department of Mathematics
Short Term Course**

**Course: Introduction to C-Programming Language
(2019-20)**

• **Objectives**

Students will be able to

- 1) learns basic concepts in Mathematics and also geometrical figures & Graphical displays.
- 2) perform Mathematical operations using C language.
- 3) use loop structure & while, do-while loops etc in C programme.
- 4) test whether a number is prime or not by using C programme.

• **Course Outcomes**

After completion of the units, Student is able to

- 1) Know history, identifiers, key words.
- 2) learn data types and character types.
- 3) do simple C programmes by using if-else statement.
- 4) use input and output statements effectively while constructing programmes.
- 5) use loop structure & while, do-while loops etc in C programme.
- 6) write programme to find factorial and series sum problem.
- 7) test whether a number is prime or not by using C programmes.

Syllabus

Unit 1: C-Introduction, History, Identifiers, Keywords, constants, variables, Mathematical operations, Data types, Integer, real, character types. (09L)

Unit 2: Input/output statements, C program structure, simple C programs. Control Structures (description), if, If – else statements, simple illustrative C-programs. (11L)

Unit 3: Loop Structure (I): for loop, figures, factorial, series sum problems, Fibonacci sequence. Loop Structure (II): while, do-while loops, $\exp(x)$, $\cos(x)$, $\sin(x)$ by series, sum and comparison using C language. (11L)

Unit 4: Function values, Break, Continue, Go to, switch statements, Illustrative C programs, testing a number to be prime not prime. (11L)



• **Reference Books:**

- 1) Let us C by Yashvant. P.Kanetkar, BPB Publisher
- 2) Programming with C++, D.Ravichandran II, 2nd Edition
- 3) Programming in ANSI by E.balgurusamy, 3rd Edition

Workload

Sr. No.	Content	No. of Theory Lectures	No. of Practical 1pr=3hr	Total Lectures
1	Unit 1	3	2pr=2*3=6L	9
2	Unit 2	5	2pr=2*3=6L	11
3	Unit 3	5	2pr=2*3=6L	11
4	Unit 4	5	2pr=2*3=6L	11
Total		18	24	42

Coordinator: Prof.Bathe P.T.

Name of Faculty: Prof.Bathe P.T.

• **BOS Committee:**

- Prof.Bathe P.T.
- Prof. Jadhav A.R.
- Prof. Mane P.S.



Time Table

Sr. No.	Day and Date	Time	Unit	Name of Faculty/ Resource Person	Theory/ Practical
1	Tuesday 01/02/2020	11.00 am to 11.45 a.m.	UNIT 1	Prof. Bathe P.T.	Theory
2	Tuesday 01/02/2020	12.00 am to 12.45 a.m.	UNIT 1	Prof. Bathe P.T.	Theory
3	Wednesday 02/02/2020	11.00 am to 11.45 a.m.	UNIT 1	Prof. Bathe P.T.	Theory
4	Wednesday 02/02/2020	12.00 am to 12.45 a.m.	UNIT 2	Prof. Bathe P.T.	Theory
5	Thursday, 03/02/2020	11.00 am to 11.45 a.m.	UNIT 2	Prof. Bathe P.T.	Theory
6	Thursday, 03/02/2020	12.00 am to 12.45 a.m.	UNIT 2	Prof. Bathe P.T.	Theory
7	Friday, 4/02/2020	11.00 am to 11.45 a.m.	UNIT 2	Prof. Bathe P.T.	Theory
8	Friday, 4/02/2020	12.00 am to 12.45 a.m.	UNIT 2	Prof. Bathe P.T.	Theory
9	Saturday, 5/02/2020	11.00 am to 11.45 a.m.	UNIT3	Prof. Bathe P.T.	Theory
10	Saturday, 5/02/2020	12.00 am to 12.45 a.m.	UNIT3	Prof. Bathe P.T.	Theory
11	Monday, 07/02/2020	11.00 am to 11.45 a.m.	UNIT3	Prof. Bathe P.T.	Theory
12	Monday, 07/02/2020	12.00 am to 12.45 a.m.	UNIT3	Prof. Bathe P.T.	Theory
13	Tuesday, 08/02/2020	11.00 am to 11.45 a.m.	UNIT3	Prof. Bathe P.T.	Theory
14	Tuesday, 08/02/2020	12.00 am to 12.45 a.m.	UNIT4	Prof. Bathe P.T.	Theory
15	Wednesday, 9/02/2020	11.00 am to 11.45 a.m.	UNIT4	Prof. Bathe P.T.	Theory
16	Wednesday, 9/02/2020	12.00 am to 12.45 a.m.	UNIT4	Prof. Bathe P.T.	Theory
17	Thursday, 10/02/2020	11.00 am to 11.45 a.m.	UNIT4	Prof. Bathe P.T.	Theory
18	Thursday, 10/02/2020	12.00 am to 12.45 a.m.	UNIT4	Prof. Bathe P.T.	Theory

Sr. No.	Day and Date	Time	Unit	Name of Faculty/ Resource Person	Theory/ Practical
1	Tuesday, 01/02/2020	08.00 am to 11.00 a.m.	UNIT 1	Prof. Bathe P.T.	Practical
2	Thursday, 03/02/2020	08.00 am to 11.00 a.m.	UNIT 1	Prof. Bathe P.T.	Practical
3	Saturday, 05/02/2020	08.00 am to 11.00 a.m.	UNIT 2	Prof. Bathe P.T.	Practical
4	Monday, 07/02/2020	08.00 am to 11.00 a.m.	UNIT 2	Prof. Bathe P.T.	Practical
5	Tuesday, 08/02/2020	08.00 am to 11.00 a.m.	UNIT 3	Prof. Bathe P.T.	Practical
6	Thursday, 10/02/2020	08.00 am to 11.00 a.m.	UNIT 3	Prof. Bathe P.T.	Practical
7	Friday, 11/02/2020	08.00 am to 11.00 a.m.	UNIT 4	Prof. Bathe P.T.	Practical
8	Saturday, 12/02/2020	08.00 am to 11.00 a.m.	UNIT 4	Prof. Bathe P.T.	Practical



Bathe
Coordinator
Short Term Course

[Signature]
Chairman
Short Term Course

[Signature]
Principal,
Rajarshi Chhatrapati Yashwantrao Chavan College,
Kolhapur.




**Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College Kolhapur
Department of Mathematics**

Short Term Course

**Course: Introduction to C-Programming Language
(2019-20)**


Student List(T.Y.B.Sc)

Sr. No.	Roll No.	Name of The Student
1	TYM-98	Havaldar Sanskar Sanjay
2	TYM-99	Jadhav Pallavi Shivaji
3	TYM-100	Kadalage Arati Parshuram
4	TYM-101	Powar Shweta Vijaykumar


Head
Department of Mathematics
Rajarshi Chh. Shahu College
Kolhapur.


Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College Kolhapur
Department Of Mathematics
Short Term Course
Presenty Sheet
2019-20

Roll No.	Theory																	
	1/2/2020	1/2/2020	2/2/2020	2/2/2020	3/2/2020	3/2/2020	4/2/2020	4/2/2020	5/2/2020	5/2/2020	7/2/2020	7/2/2020	8/2/2020	8/2/2020	9/2/2020	9/2/2020	10/2/2020	10/2/2020
TYM-98	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.	PH.
TYM-99	Pass	Pass	Pass	Pass	Ab-	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Ab-	Ab	Pass	Pass
TYM-100	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
TYM-101	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass


Head
 Department of Mathematics
 Rajarshi Chh. Shahu College
 Kolhapur.

Rajat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College Kolhapur
Department Of Mathematics
Short Term Course
Presenty Sheet
2019-20

Roll No.	1/2/2020	3/2/2020	5/2/2020	2/2/2020	7/2/2020	8/2/2020	10/2/2020	11/2/2020	12/2/2020
TYM-98	SH.	SH.	SH.	SH.	SH.	SH.	SH.	SH.	SH.
TYM-99	SH.	SH.	SH.	SH.	SH.	SH.	SH.	SH.	SH.
TYM-100	SH.	SH.	SH.	SH.	SH.	SH.	SH.	SH.	SH.
TYM-101	SH.	SH.	SH.	SH.	SH.	SH.	SH.	SH.	SH.


Head
 Department of Mathematics
 Rajarshri Chh. Shahu College
 Kolhapur.

Rayat Shikshan Sanstha's
Rajarshi Chhatrapati Shahu College Kolhapur
Examination on
Short Term Course "Introduction to C Programming"

Class: S.Y.B.Sc

Date: 26/2/ 2020

Time: 2Hrs.

Marks: 50

Name of the student: -

Roll No.....

Q1. Choose the correct alternative for following questions. (10Marks)

1. Range of int data type is.....

- a) -127 to 128 b) -32768 to 32767 c) 0 to 255 d) 0 to 128

2. C language consists of number of keywords.

- a) 32 b) 40 c) 24 d) 56

3. Maximum size of an integer variable is.....

- a) 1 byte b) 2bytes c) 4 bytes d) 8 bytes

4. Range of char data type is.....

- a) -127 to 128 b) -32768 to 32767 c) 0 to 255 d) 0 to 128

5. C is a Language.

- a) High level b) Low level c) middle level d) machine level

Q2. Solve the following (20 Marks)

1. Write different symbols used in flowchart with meaning
2. What is Flow chart?
3. What is difference between ++i and i++?
4. State Advantages of Flowchart.
5. Define Algorithm.

Q3. Solve the following (Any Two) (20 Marks)

1. Write algorithm and flowchart to find prime numbers in given range.
2. Write algorithm and flowchart to find factorial of a number.
3. Write a c program to find sum of first ten natural numbers.

-----All the Best-----



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Marks List(T.Y.B.Sc)

Sr. No.	Roll No.	Name of The Student	Marks out of 50
1	TYM-98	Havaladar Sanskar Sanjay	40
2	TYM-99	Jadhav Pallavi Shivaji	42
3	TYM-100	Kadalage Arati Parshuram	48
4	TYM-101	Powar Shweta Vijaykumar	42

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Rayat Shikshan Sanstha's

Rajarshi Chhatrapati Shahu College, Kolhapur

Certificate Course In Introduction to C-Programming 2019-20

This is to certify Mr./Miss _____ Has successfully completed the course of Introduction to C-programming Organized by Department of Mathematics, Rajarshi Chhatrapati Shahu College Kolhapur.

Coordinator

Coordinator
IQAC, NAAC

vice principal

Principal,
R.C. Shahu College,
Kolhapur

