To,

The Principal

K. K. Wagh College of Agriculture,

Nashik

Subject Regarding permission for Certificate Course.....

Respected Sir,

On behalf of the Department of Computer Science and Statistics, we humbly request permission to initiate a Certificate course titled **Certificate Course in 'Introduction to C Programming'**. This course is scheduled from 23/09/2019 to 28/09/2019 and will involve approximately 18 final-year students. It is anticipated that this course will greatly benefit our students in enhancing their knowledge about c programming and practical skills in writing C programs. We kindly ask for your approval for the implementation of this course.

Thanking You,

Permission granted

Ya
2/9

Yours faithfully,

(Prof. S. S. Nikam)

Course Coordinator

K. K. Wagh Education Society's
K. K. Wagh College of Agriculture,
(Affiliated to Mahatma Phule Krishi Vidyapeeth, Rahuri)
Saraswati Nagar, Panchavati, Nashik- 422 003. Maharashtra
College Code;11135   **AISHE Code: C-50690**

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Certificate course in

' Introduction to C Programming '

Academic Year 2019-20

Syllabus Committee

Sr no	Name of teacher	Designation	Department	Role in course
1	Mr. S. S. Nikam	Assistant Professor	Computer Science and Statistics	Course coordinator
2	Ms. R. M. Raundal	Assistant Professor	Computer Science and Statistics	Committee member

S.S.Nikam
Course Coordinator

Principal
K.K.Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik

Date:02/09/2019

Academic Year 2019-20
Department of Computer Science & Statistics
Minutes of the Board of Studies Meeting for the Short-Term Certificate Course

A meeting of the Board of Studies for the Short-term Certificate Course in ' **Introduction to C Programming** ' was convened on 3 Sept, 2019, at 12:00 PM in the Department of Computer Science & Statistics. The meeting was attended by the following Syllabus Design Committee members:

Sr no	Name of the expert	Designation	Sign
1	Dr. S. M. Hadole	Principal	
2	Mr. S.S.Nikam	Course Coordinator	
3	Ms. R. M. Raundal	Member	

Minutes of Meeting

The Board of Studies convened a meeting on 3 Sept, 2019, at 12:00 PM in the Department of Computer Science & Statistics to address various aspects concerning the Short-Term Certificate Course in ' Introduction to C Programming '. The meeting focused on the following key points:

1. Syllabus Formation: Members deliberated on developing a syllabus that emphasizes on relevant knowledge and skills in C Programming.
2. Dissemination of Work: Strategies for effectively teaching Basic Programming language concepts in C were discussed to aid students in the course.
3. Encouragement of Students: The meeting stressed the importance of offering guidance and motivation to students. C is an excellent language to learn and begin your programming journey. You can start with zero prior experience in programming.
4. Examination of Short-Term Course: The examination structure and assessment methods for the short-term course were reviewed. The board explored ways to ensure fair and comprehensive evaluations that accurately assess students'

The meeting concluded with a commitment to refine the course and its delivery methods to better meet the needs of students enrolled in the Certificate Course in '**Introduction to C Programming** '

S.S.Nikam
Course coordinator

NASHIK-3

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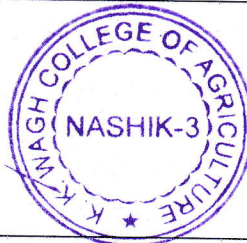## Department of Computer Science & Statistics

Certificate course in
' Introduction to C Programming '
Academic Year 2019-20

Syllabus Outcomes:

1. Understand the basic terminology used in computer, write, compile and debug programs in C language and use different data types in a computer program.

2. Apply these features to program design and implementation

3. Develop a C program

4. Control the sequence of the program and give logical outputs.

5. Store different data types in the same memory

Sr no	Topic	Description	No of Lectures
1	Introduction to C	History of C, Purpose of the language, Basic Features of C	04 hours
2	A Simple C Program	Layout,Declarations,Body,Demo 1	04 hours
3	Variables & DataTypes	Characters, integers, and floating point numbers,Naming variables,constants	03 hours
4	Arithmetic Operators	• Addition, Subtraction, Multiplication, Division, Modulus • Integer vs. Floating point arithmetic • Precedence • Assignment operators • Increment/decrement operators	03 hours
5	Control Statements 1	• Condition Expressions, If and if-else statements,Relational,logical and equality operators	03 hours
6	Control Statements 2	• Switch Statements, The ! operator, Value of an expression	03 hours
7	Loops	• For, while, & do-while loops	03 hours
8	Functions	Declaring Functions,Returning values, Variables & scope	03 hours
9	Structures & Union	structures, unions, enumerated types, and type definitions	04 hours
		Total	**30 hours**

S.S.Nikam
Course Coordinator

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Certificate course in
'Introduction to C Programming'
Academic Year 2019-20

Examination Methodology

Sr no	Nature of exam	Marks
1	Written	30
2	Practical	20
3	Total	50

Text and Reference books:

1) Rajaraman V. 1985. Computer Oriented Numerical Methods. Prentice Hall of India. Pvt.Ltd., New Delhi.
2) Balagurusamy E. 1990. Programming in 'C'. Tata McGraw Hill Publishing Co. Ltd., 12/4 Asaf Ali Road, New Delhi.
3) Bronson G and Menconi S. 1995. A First Book of 'C' Fundamentals of 'C' Programming.Jaico Publishing House, New Delhi

S.S.Nikam
Course Coordinator

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Date:05/09/2019

Student Notice

All the students of B. Sc. (Hons.) Agriculture final year are informed that for the academic year 2019-20 the Certificate Course on 'Introduction to C Programming' is starting from 23/09/2019 to 28/09/2019. For this certificate course students should submit their names to the Certificate Course Coordinator Assistant Prof. S. S. Nikam up to 15/09/2019.

Duration: 30 Hrs. 23/09/2019 to 28/09/2019
Time: Morning Session: 8.30 am to 10.00 am
      Afternoon session: 5.00pm to 6.30 pm

Note: This course is free of cost to all students.

Course Coordinator

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STUDENT REGISTRATION FORM

Academic Year: 2019-20
(Department of Computer Science & Statistics)

Affix recent
passport size
photograph
(colour)

CERTIFICATE COURSE
' Introduction to C Programming '

For Department Use Only

Registration No.:...

Student ID:

Name of the Student: ....

Mother's Name: ....

Father's Name: ....Year:1st /2nd /3rd/4th

E-Mail ID: ....

Address: ....

State:................................. PIN Code:.................................

Mobile No: .... Alternate contact number:..............................

Gender: Male [   ]   Female [   ]   Other [   ]   Religion:

Date of Birth:...

Educational Qualification (at the time of admission):

HSC .... Other ....

Signature of Student

Place:

Date:

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Department of Computer Science & Statistics
Certificate course in
' Introduction to C Programming '
Academic Year 2019-20

Enrolled Student List

SR NO	REGISTRATION NO	NAME OF STUDENT
1	AKN-2018/006	Bachhav Prasad Dilip
2	AKN-2018/007	Bachhav Sujal Sanjay
3	AKN-2018/008	Bagal Avinash Ramdas
4	AKN-2018/011	Bhise Rahul Komal
5	AKN-2018/012	Bhor Snehal Ravsaheb
6	AKN-2018/101	Shirole Roshani Bhaurao
7	AKN-2018/102	Shirsat Aishwarya Sambhaji
8	AKN-2018/104	Sonawane Harshvardhan Milind
9	AKN-2018/105	Supekar Vinay Raju
10	AKN-2018/106	Suryawanshi Mahesh Ashok
11	AKN-2018/107	Thorat Tejal Ravindra
12	AKN-2018/109	Ushir Kunal Eknath
13	AKN-2018/110	Varade Kushal Prakash
14	AKN-2018/113	Waditake Prajakta Sopan
15	AKN-2018/114	Waghmare Prachi Mukund
16	AKN-2018/115	Wakchaure Rutuja Babasaheb
17	AKN-2018/119	Watpade Rushikesh Atul
18	AKN-2018/120	Waybhase Pallavi Sheshmal

S.S.Nikam
Course Coordinator

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Department of Computer Science & Statistics

Certificate course in
' Introduction to C Programming '
Academic Year 2019-20

Schedule of the course

Sr no	Topic	Description	Name of the teacher	Department
1	Introduction to C	History of C, Purpose of the language, Basic Features of C	Mr.S.S.Nikam	Computer Science & Statistics
2	A Simple C Program	Layout,Declarations,Body,Demo1	Ms.R.M.Raundal	Computer Science & Statistics
3	Variables & DataTypes	Characters, integers, and floating point numbers,Naming variables,constants	Ms.R.M.Raundal	Computer Science & Statistics
4	Arithmetic Operators	• Addition, Subtraction, Multiplication, Division, Modulus • Integer vs. Floating point arithmetic • Precedence • Assignment operators • Increment/decrement operators	Mr.S.S.Nikam	Computer Science & Statistics
5	Control Statements 1	• Condition Expressions, If and if-else statements,Relational,logical and equality operators	Ms.R.M.Raundal	Computer Science & Statistics
6	Control Statements 2	• Switch Statements, The ! operator, Value of an expression	Mr.S.S.Nikam	Computer Science & Statistics
7	Loops	• For, while, & do-while loops	Mr.S.S.Nikam	Computer Science & Statistics
8	Functions	Declaring Functions,Returning values, Variables & scope	Mr.S.S.Nikam	Computer Science & Statistics
9	Structures & Union	Structures, unions, enumerated types, and type definitions	Mr.S.S.Nikam	Computer Science & Statistics

Course Coordinator

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Department of Computer Science & Statistics

Certificate course in
'Introduction to C Programming'
Academic Year 2019-20

Time Table

Sr no	Date	Time		Topic
1	23/09/2019	9.00 am- 01.00 pm	2.00 pm - 06.00 pm	Introduction to C A Simple C Program
2	24/09/2019	8.00 am- 10.00 pm	05.00 pm - 06.30 pm	Variables & DataTypes
3	25/09/2019	8.00 am- 10.00 pm	05.00 pm - 06.30 pm	Arithmetic Operators
4	26/09/2019	8.00 am- 10.00 pm	05.00 pm - 06.30 pm	Control Statements I & II
5	27/09/2019	8.00 am- 10.00 pm	05.00 pm - 06.30 pm	Loops
6	28/09/2019	9.00 am- 01.00 pm	02.00 pm - 06.00 pm	Functions Structures & Union

S.S.Nikam
Course Coordinator

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K.K.Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik

Department of Computer Science & Statistics

Certificate course in
'Introduction to C Programming'
Academic Year 2019-20

Students Attendance Sheet

S.S.Nikam
Course Coordinator

NASHIK-3

Principal
K.K.Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik

K K WAGH COLLEGE OF AGRICULTURE, NASHIK
Department of Computer Science & Statistics
Certificate course in 'Introduction to C Programming'
Academic Year 2019-20

Sr no	Registration no	Name of students Date:	23/09/2019		24/09/2019		25/09/2019		26/09/2019		27/09/2019		28/09/2019	
		Time:	9.00-1.00	2.00-6.00	08.00-10.00	5.00-6.30	08.00-10.00	5.00-6.30	08.00-10.00	5.00-6.30	08.00-10.00	5.00-6.30	9.00-1.00	2.00-6.00
1	AKN-2018/006	Bachhav Prasad Dilip	B...	B...	B...	B...	B...	AB	B...	B...	B...	B...	B...	B...
2	AKN-2018/007	Bachhav Sujal Sanjay	SB	AB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
3	AKN-2018/008	Bagal Avinash Ramdas	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
4	AKN-2018/011	Bhise Rahul Komal	AB	RK	AB	RK	RK	RK	RK	RK	RK	RK	RK	RK
5	AKN-2018/012	Bhor Snehal Ravsaheb	Bsrav	AB	Bsrav	Bsrav	Bsrav	AB	Bsrav	Bsrav	AB	Bsrav	AB	Bsrav
6	AKN-2018/101	Shirole Roshani Bhaurao	SRB	SRB	SRB	SRB	AB	SRB	SRB	AB	SRB	SRB	SRB	SRB
7	AKN-2018/102	Shirsat Aishwarya Sambhaji	Shirsat	Shirsat	Shirsat	AB	Shirsat	AB	Shirsat	AB	Shirsat	AB	Shirsat	AB
8	AKN-2018/104	Sonawane Harshvardhan Milind	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh
9	AKN-2018/105	Supekar Vinay Raju	Vinay	Vinay	Vinay	Vinay	Vinay	Vinay	AB	Vinay	AB*	Vinay	Vinay	AB
10	AKN-2018/106	Suryawanshi Mahesh Ashok	SM..	SM..	AB	SM..	SM..	SM..	AB	SM..	S.M..	SM..	SM..
11	AKN-2018/107	Thorat Tejal Ravindra	Tejal	Tejal	Tejal	Tejal	Tejal	Tejal	Tejal	Tejal	Tejal	Tejal	Tejal	Tejal
12	AKN-2018/109	Ushir Kunal Eknath	Kunal	Kunal	AB	Kunal	Kunal	AB	AB	Kunal	Kunal	Kunal	Kunal	AB
13	AKN-2018/110	Varade Kushal Prakash	VKarde	VKarde	VKarde	VKarde	VKarde	VKarde	VKarde	VKarde	AB	VKarde	AB	VKarde
14	AKN-2018/113	Waditake Prajakta Sopan	Pw..	Pw..	Pw..	AB	Pw..	Pw..	Pw..	Pw..	Pw..	Pw..	Pw..	Pw..
15	AKN-2018/114	Waghmare Prachi Mukund	Praghmar	AB	Praghmar	Praghmar	Praghmar	Praghmar	Praghmar	Praghmar	Praghmar	Praghmar	Praghmar	Praghmar
16	AKN-2018/115	Wakchaure Rutuja Babasaheb	Brut	Brut	Brut	AB	Brut	Brut	Brut	Brut	Brut	Brut	Brut	Brut
17	AKN-2018/119	Watpade Rushikesh Atul	Strut	Strut	Strut	Strut	Strut	Strut	Strut	Strut	Strut	Strut	Strut	Strut
18	AKN-2018/120	Waybhase Pallavi Sheshmal	WPallavi	WPallavi	WPallavi	WPallavi	WPallavi	WPallavi	WPallavi	WPallavi	WPallavi	WPallavi	WPallavi	WPallavi

Course Coordinator
S.S.Nikam

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Department of Computer Science & Statistics

Certificate course in
'Introduction to C Programming'
Academic Year 2019-20

Exam Time Table

All enrolled students of the Certificate Course are hereby informed that for the academic year 2019-20, the Certificate Course on 'Introduction to C Programming' has been completed. The examination for this certificate course is scheduled to be conducted on 30/09/2019. Therefore, all students are required to be present without exception.

Note: Time Table is as follow

Sr no	Date	Time	Certificate course subject
1	30/09/2019	02:00 to 03:00 pm	Theory exam: 'Introduction to C Programming
2		03:00 to 04:00 pm	Practical Exam: 'Introduction to C Programming

S.S.Nikam
Course Coordinator   **Exam Incharge**   **PRINCIPAL**
K.K.Wagh College of Agriculture
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Department of Computer Science & Statistics
Certificate course in ' Introduction to C Programming '
Academic Year 2019-20
Exam Block Report

Class- Final Year   **Date-** 30/09/2019

Subject: Theory Paper of Introduction to C Programming course

Block no: 02

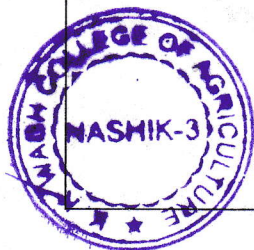| SR NO	REGISTRATION NO	NAME OF STUDENT	SIGN
1	AKN-2018/006	Bachhav Prasad Dilip	
2	AKN-2018/007	Bachhav Sujal Sanjay	
3	AKN-2018/008	Bagal Avinash Ramdas	
4	AKN-2018/011	Bhise Rahul Komal	
5	AKN-2018/012	Bhor Snehal Ravsaheb	
6	AKN-2018/101	Shirole Roshani Bhaurao	
7	AKN-2018/102	Shirsat Aishwarya Sambhaji	
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15	AKN-2018/114	Waghmare Prachi Mukund	
16	AKN-2018/115	Wakchaure Rutuja Babasaheb	
17	AKN-2018/119	Watpade Rushikesh Atul	
18	AKN-2018/120	Waybhase Pallavi Sheshmal	

Total no of student: 18
No of student present: 18
No of students absent: 0 (Nil)

(D. D. Pawar)
Name and Sign of Jr. Supervisor

(P B Pawar)
Name and Sign of Sr. Supervisor

Department of Computer Science & Statistics

Certificate course in
' Introduction to C Programming '
Academic Year 2019-20

Student Result

Sr. No.	Registration no	Name of the students	Theory marks (30)	Practical Marks (20)	Mark Out of Total 50
1	AKN-2018/006	Bachhav Prasad Dilip	27	17	44
2	AKN-2018/007	Bachhav Sujal Sanjay	28	15	43
3	AKN-2018/008	Bagal Avinash Ramdas	28	17	45
4	AKN-2018/011	Bhise Rahul Komal	27	18	15
5	AKN-2018/012	Bhor Snehal Ravsaheb	27	16	43
6	AKN-2018/101	Shirole Roshani Bhaurao	27	15	42
7	AKN-2018/102	Shirsat Aishwarya Sambhaji	26	18	44
8	AKN-2018/104	Sonawane Harshvardhan Milind	27	16	43
9	AKN-2018/105	Supekar Vinay Raju	26	16	42
10	AKN-2018/106	Suryawanshi Mahesh Ashok	27	17	44
11	AKN-2018/107	Thorat Tejal Ravindra	26	18	44
12	AKN-2018/109	Ushir Kunal Eknath	25	17	42
13	AKN-2018/110	Varade Kushal Prakash	26	16	42
14	AKN-2018/113	Waditake Prajakta Sopan	27	17	44
15	AKN-2018/114	Waghmare Prachi Mukund	27	15	42
16	AKN-2018/115	Wakchaure Rutuja Babasaheb	25	17	42
17	AKN-2018/119	Watpade Rushikesh Atul	27	17	44
18	AKN-2018/120	Waybhase Pallavi Sheshmal	27	18	45

S.S. Nikam
Course Coordinator

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STUDENT REGISTRATION FORM

Academic Year: 2019-20
(Department of Computer Science & Statistics)

CERTIFICATE COURSE
' Introduction to C Programming '

For Department Use Only

Registration No.: AKN 20181 007

Student ID:

Name of the Student: Bachhav Sujal Sanjay

Mother's Name: Savita

Father's Name: Sanjay   Year:1st /2nd ✓/3rd/4th

E-Mail ID: sujalbachhav123@gmail.com

Address: A.p. Vani , Tal- Dindori , Dist -Nashik

State: Maharashtra   PIN Code: 422215

Mobile No: 8180031451   Alternate contact number: 8767058557

Gender: Male ✓   Female ☐   Other ☐   Religion: Buddhism

Date of Birth: 22/12/1999

Educational Qualification (at the time of admission):   12th

HSC .... Other ....—.........

Signature of Student

Place: Nashik

Date:

28/30

K. K. Wagh College of Agriculture, Nashik
Department of Computer Science & Statistics
Certificate course in **'Introfuction to C Programming'**
Academic Year 2019-20
THEORY EXAMINATION

Class:	Second Year BSc Agri	Semester :	III
Day & Date:	30/09/2019	Time:	1 hour
Subject:	Intro. to 'c' programming	Marks:	30
Name of student:	Bacchav Sujal Sanjay	Registration no:	AKN ⊕ 2018/007

Multiple Choice Questions

Q 1. Who is the father of C language?	
1. Steve Jobs	2. James Gosling
✓3. Dennis Ritchie	4. Rasmus Lerdorf

Q 2. Which of the following is not a valid C variable name?	
1. int number;	2. float rate;
3. int variable_count;	✓4. int $main;

Q 3. All keywords in C are in _____	
✓1. LowerCase letters	2. UpperCase letters
3. CamelCase letters	4. None of the mentioned

Q 4. Which is valid C expression?	
1. int my_num = 100,000;	✓2. int my_num = 100000;
3. int my num = 1000;	4. int $my_num = 10000;

Q 5. Which of the following cannot be a variable name in C?	
✓1. volatile	2. true
3. friend	4. export

Q 6. What is #include <stdio.h>?	
✓1. Preprocessor directive	2. Inclusion directive
3. File inclusion directive	4. None of the mentioned

Q 7. C language is an example of	
1. Machine level language	2. Low level language
3. High-level language	4. Medium-level language

Q 8. Compiler helps in the translation from	
1. Integer to binary	2. High-level language to machine level language
3. Pseudo code to computer program	4. None of the above

Q 9. Which function is used to print something on console?	
✓1. printf()	2. scanf()
3. getch()	4. getchar()

Q 10. What is the only function all C programs must contain?	
1. start()	2. system()

	3. main()	4. program()

Q 11. In which standard library file is the function printf() located ?

1. stdlib.h	2. stdio.h
3. stdout.h	4. stdoutput.h

Q 12. The first computer was programmed using

1. Assembly language	2. Machine language
3. Source code	4. Object code

Q 13. In C Language what punctuation ends most lines of code?

1. :	2. ;
3. '	4. "

Q 14. The C-preprocessors are specified with _____ symbol

1. #	2. $
3. " "	4. &

Q 15. scanf() is a predefined function in _____ header file

1. stdlib. h	2. ctype. h
3. stdio. h	4. stdarg. h

Q 16. For Double Type Value in C, Which of the following is the Correct Format Specifier?

1. %d	2. %f
3. %lf	4. %Lf

Q 17. Which of the following Operators is Used to Find the Remainder of 2 Numbers in C?

1. /	2. \
3. %	4. \\

Q 18. Choose the Right Answer to the Following Condition: (! (25 > 25))

1. True	2. False
3. Error	4. None of These

Q 19. Why are Loops Used in C Programming?

1. Execute a block of code repeatedly	2. Execute a statement based on a condition
3. Create a variable	4. None of these

Q 20. Which of the following language is predecessor to C Programming Language?

1. A	2. B
3. BCPL	4. C++

Q 21. C was developed in the year _____

1. 1970	2. 1972
3. 1976	4. 1980

Q 22. C language is available for which of the following Operating Systems?

1. DOS	2. Windows
3. Unix	4. All of these

Q 23. Which escape character can be used to begin a new line in C?

1. \a	2. \b
3. \m	4. \n

Q 24. A declaration float a,b; occupies _____ of memory

1. 1 byte	2. 4 bytes
3. 8 bytes	4. 16 bytes

Q 25. The operator && is an example for _____ operator	
1. Assignment	2. Increment
3. Logical ✓	4. Rational
Q 26. The equality operator is represented by	
1. :=	2. .EQ.
3. =	4. == ✓
Q 27. In C, a Union is	
1. memory location ✓	2. memory store
3. memory screen	4. None of these
Q 28. A Structure	
1. can be read as a single entity	2. cannot be read as a single entity ✓
3. can be displayed as a single entity	4. has member variables that cannot be read individually
Q 29. Function argument can be	
1. A structure member	2. A pointer variable
3. A complete structure	4. All of the above ✓
Q 30. Which is the correct way to declare a pointer?	
1. int_ptr;	2. int *ptr; ✓
3. *int ptr;	4. None of these

Answer Key

Q1: 3.Dennis Ritchie	**Q16:**3. %lf
Q2:4.int $main;	**Q17:**3. %
Q3:1.LowerCase letters	**Q18:**1.True
Q4:2.int my_num = 100000;	**Q19:**1. Execute a block of code repeatedly
Q5:1.volatile	**Q20:**3.BCPL
Q6:1.Preprocessor directive	**Q21:**2.1972
Q7:3.High level language	**Q22:**4.All of these
Q8:2. High-level language to machine level language	**Q23:4.**\n
Q9:1.Printf	**Q24:**3.8 Bytes
Q10:3.main()	**Q25:**3.Logical
Q11:2.stdio.h	**Q26:**4.==
Q12:2.Machine Language	**Q27:**2.Memory Store
Q13:2.;	**Q28:**2.Connot be read as single entity
Q14:1.#	**Q29:**4.All of the above
Q15:3.stdio.h	**Q30:**2. int *ptr;

K. K. Wagh Education Society's
K. K. Wagh College of Agriculture,
(Affiliated to Mahatma Phule Krishi Vidyapeeth, Rahuri)
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Department of Computer Science & Statistics

Certificate course in ' **Introduction to C Programming**'
Academic Year 2019-20
Report

K. K. Wagh Education Society's K. K. Wagh College of Agriculture, Saraswatinagar, Nashik which provide education in agriculture at U.G. level students. College has to decide introduce new Certificate Course in ' **Introduction to C Programming** '. Total 18 students are enrolled from department of **Computer Science & Statistics**. Due to this certificate course in ' **Introduction to C Programming** ' students get more knowledge of programming languages that can be useful for a BSc agriculture student interested in Precision Agriculture or Smart Farming. Knowledge of C/C++ can be beneficial for developing embedded systems, IoT devices, and low-level programming in agricultural automation and control systems.

Course outcome

1) Understand the basic terminology used in computer, write, compile and debug programs in C language and use different data types in a computer program.
2) Apply these features to program design and implementation
3) Develop a C program
4) Control the sequence of the program and give logical outputs.
5) Store different data types in the same memory

Course coordinator is Mr.S.S.Nikam and member for this certificate course are, Ms. R.M.Raundal

Course Coordinator

Principal
K.K.Wagh College of Agriculture
Saraswatinagar, Panchavati, Nashik

K K Wagh Education Society's

K K WAGH COLLEGE OF AGRICULTURE

(Affiliated to Mahatma Phule Krishi Vidyapeeth, Rahuri)

Saraswatinagar, Panchavati, Nashik - 422 003

Certificate

This is to certify that Mr./Ms. **Supekar Vinay Raju**

Class **2nd year** has completed Certificate Course on **Introduction to 'C' Program**

from **23/09/2019** to **28/09/2019** organized by

Department of **Computer Sci. & Statistics** in academic year **2019- 2020**

Date : **01 / 10 / 2019**

Place : Nashik

Course Coordinator

(Mr. S. S. Nikam)

NASHIK-3

Principal
K K Wagh College of Agriculture
Nashik