



DEPARTMENT OF ELECTRONICS

Anand Niketan College, Anandwan, Warora - 442 914

HOD: Dr. G. K. Singh, Cell: 9075322625, Email: gopesh63@gmail.com



Date: 06.06.2022

REPORT: C&C++ LANGUAGE CERTIFICATED COURSE

Respected Certificate Course Coordinator,

I would like to provide you report of GU approved C&C++ Language Certificated Course run by Department of Electronics during the Session: 2021-22.

Start Date (Admission Date): 10.10.2021

Exam Date: 06.06.2022

Mode: Online

No. of Hours: 70Hrs (5Hrs/Week)

Number of Enrolled Students: 50

Number of Students attended the regular classes: 25

Number of Students appeared in the certificate course exam: 25

Number of Students passed in the certificate course exam: 25

List of students passed:

| Sr. No. | Name | Class |
|---------|---------------------|-----------------------------|
| 1. | tharabhai@gmail.com | |
| 2. | Achal Bodhe | B. Sc. 3 rd Year |
| 3. | Vaishnavi Deotale | B. Sc. 3 rd Year |
| 4. | Prajyot Khiratkar | |
| 5. | Hemlata Gathe | |
| 6. | Durga Sarpate | M. Sc. 1 st Year |
| 7. | Prabhakar Barekar | M. Sc. 1 st Year |
| 8. | Madhuri Gajbhe | M. Sc. 1 st Year |
| 9. | Rasika Tonge | M. Sc. 1 st Year |
| 10. | Alok Thamke | B. Sc. 1 st Year |
| 11. | Jayanta Tekam | B. Sc. 3 rd Year |
| 12. | Aishwarya Shende | M. Sc. 1 st Year |
| 13. | Snehal Panchbhai | |
| 14. | Arpita Zile | B. Sc. 3 rd Year |
| 15. | agedam561@gmail.com | |
| 16. | Vishaka Shengarpwar | B. Sc. 3 rd Year |
| 17. | Vishwas Garate | B. Sc. 1 st Year |
| 18. | Gayatri Landge | M. Sc. 1 st Year |
| 19. | Papita Pimpalkar | B. Sc. 3 rd Year |
| 20. | Ishika Gayakwad | B. Sc. 2 nd Year |



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| | | |
|-----|-------------------|-----------------|
| 21. | Nikhil More | |
| 22. | Akshay Askar | B.Sc . 3rd Year |
| 23. | Chanchal Muraskar | M.Sc . 1st Year |
| 24. | Suhas Gawai | |
| 25. | Aditya Gorghate | |

Bugh

(Dr. G. K. Singh)

Head

Department of Electronics
Anand Niketan College, Warora



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HOD: Dr. G. K. Singh, Cell: 9075322625, Email: gopesh63@gmail.com



Date: 17.10.2021

REPORT: C&C++ LANGUAGE CERTIFICATED COURSE

Respected Certificate Course Coordinator,

I would like to provide you report of GU approved C&C++ Language Certificated Course run by Department of Electronics during the Session: 2020-21.

Number of Enrolled Students: 20

Number of Students attended the regular classes: 14

Number of Students appeared in the certificate course exam: 14

Number of Students passed in the certificate course exam: 14

List of students passed:

| Sr. No. | Name | Class |
|---------|---------------------------|-----------------------------|
| 1. | Achal Prabhakar Bodhe | B. Sc. 2 nd Year |
| 2. | Kalyani Bhoyar | B. Sc. 2 nd Year |
| 3. | Swarupata Wasudeo Sarpate | B. Ed. 1 st Year |
| 4. | Rohan Hanuman Hanwate | B. Sc. 1 st Year |
| 5. | Shivam Rangnath Bawane | B. Sc. 1 st Year |
| 6. | Bhushan Raju Kamdi | B. Sc. 1 st Year |
| 7. | Amisha Shende | B. Sc. 1 st Year |
| 8. | Rakhi Bhongle | B. Sc. 3 rd Year |
| 9. | Kajal Namdeo Satpute | B. Sc. 1 st Year |
| 10. | Zainab Khan | B. Sc. 3 rd Year |
| 11. | Ravina Kawadu Ambaghare | B. Sc. 1 st Year |
| 12. | Harshda Dashrath Jiwtoode | B. Sc. 1 st Year |
| 13. | Prabhakar Kawadu Barekar | B. Sc. 3 rd Year |
| 14. | Aditi Shivpal Walde | B. Sc. 1 st Year |

Dr. G. K. Singh
Head
Department of Electronics



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BROCHURE

CERTIFICATE COURSE IN C AND C++ PROGRAMMING

(Approved by Gondwana University, Gadchiroli)

Duration: 70Hrs (5Hrs/Week)

Objectives:

On successful completion of the course the students will be able to do the following:

- To provide a training programming skill.
- To understand and develop programs independently.
- To provide a proper foundation for learning other programming languages.

Link for Admission: <https://forms.gle/FHXwSj9fexn4Jsez8>

Contents:

| Part-A | | | |
|-----------|---|-----------|--|
| Lect. No. | Topics | Lect. No. | Topics |
| UNIT-I | | | |
| 1. | Introduction to C-Programming | 12. | Unformatted Input Functions |
| 2. | C-Token, Identifiers and Keywords | 13. | Unformatted Output Functions |
| 3. | C Variables | 14. | Arithmetic Operators_FloatingPoint |
| 4. | C-Storage Class | 15. | Arithmetic Operators, Mixed Mode And C Type Casting Function |
| 5. | C-Constants | 16. | Precedence of Operators and Associativity |
| 6. | Data types (Primary data types) | 17. | Assignment and Conditional Operator |
| 7. | Derived Data Types | 18. | Relational and Logical Operators |
| 8. | Algorithm | 19. | Increment-Decrement Operators |
| 9. | Flowcharts | 20. | Bitwise and Special Operators |
| 10. | Compiler and Interpreter | 21. | C-Library Functions (Formatted output) |
| 11. | Arithmetic Operators_ | 22. | C-Library Functions (Formatted Input) |
| UNIT-II | | | |
| 1. | Decision Making if Statement | 7. | C-Looping Statement_while loop |
| 2. | Decision Making if---else Statement | 8. | C-Looping Statements_do-while loop |
| 3. | Decision Making Nested if ... else and the else if ladder Statement | 9. | C - Looping Statements_for loop |
| 4. | Decision Making switch statement | 10. | C - Looping Statements_ nesting of for loops |
| 5. | goto statement and ternary operator | 11. | Break and Continue Statements |
| 6. | Conditional operator | | |



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| Part-B | | | |
|-----------|---|-----------|---|
| Lect. No. | Topics | Lect. No. | Topics |
| UNIT-III | | | |
| 1. | One-dimensional arrays | 13. | Scope and Lifetime of Variables in Function |
| 2. | Two-dimensional arrays | 14. | Basic Concept of Structure |
| 3. | Initialization of two-dimensional arrays | 15. | Operations on Structure |
| 4. | Concept of Multidimensional arrays | 16. | Array of Structure |
| 5. | Need for User Defined Functions, | 17. | Union |
| 6. | Concept Associated with Functions | 18. | Difference in union and Structure |
| 7. | Return Values and Their Types | 19. | Basic Concept of pointers |
| 8. | Function with no arguments and no return values | 20. | Pointer Expression |
| 9. | Function with arguments but no return values | 21. | Pointers and arrays |
| 10. | Function with arguments with return values | 22. | Pointer and Character String, |
| 11. | Nesting of functions, | 23. | Pointer to Function. |
| 12. | recursion | | |
| UNIT-IV | | | |
| 1. | File management: Introduction | 13. | Application of Oop |
| 2. | Defining and Opening File | 14. | Introduction to C++, |
| 3. | Closing a File | 15. | Applications of C++, |
| 4. | I/O Operations on File | 16. | Difference between C and C++. |
| 5. | Error Handling | 17. | C++: Tokens, Keywords, Identifiers |
| 6. | Random Access to Files | 18. | Constants, Variables |
| 7. | Command Line Arguments | 19. | Basic data types |
| 8. | Principle of Object-Oriented Programming | 20. | Operators in C++ : |
| 9. | Software evaluation | 21. | cin, cout, new, delete |
| 10. | Oop paradigm | 22. | Manipulators |
| 11. | Basic concept of Oop | 23. | Operators overloading |
| 12. | Benefits of Oop | 24. | C++ programs |

Note:

1. Online exam will be conducted on each unit, and
2. Also, there will be a final exam on complete syllabus.
3. All Online exams will be MCQ type.
4. Passing marks is 50%.