



St. Michael's College, Cherthala

Alappuzha, Kerala-688 539

**Affiliated to University of Kerala
and Re-accredited by NAAC with 'A' Grade**



ADD ON COURSE 2022-23

Name of the Programme : BASICS OF C PROGRAMMING

Name of the Department : PHYSICS

Course Code : PY 074



St. Michael's College

MAYITHARA P.O., CHERTHALA, ALAPPUZHA-688539

An institution with Minority Status Affiliated to the University of Kerala and
Re-accredited by NAAC with 'A' Grade

Add on Course - 2022-23

CHEMISTRY

Food Science and Quality Control

MANAGEMENT

Diploma in Port Operations and
Management (DPOM)

PSYCHOLOGY

Guidance Counseling and Psychology of
Interpersonal Relationships

SOFTWARE DEVELOPMENT

Python

ZOOLOGY

Techniques in Coastal Aquaculture

ENGLISH

(Certificate Course)

Basic Proficiency in English Language

COMMERCE

Certified Insurance Advisor and
Risk Analyst (CIARA)

ECONOMICS

Statistical Data Analysis
Using Software Packages

PHYSICS

Basics of C Programming

TOURISM STUDIES

Customer Service Skills

HISTORY

(Certificate Course)

Introduction to Indian Constitution

MALAYALAM

(Certificate Course)

Madhyama Malayalam



Phone : 0478-2822387, 2810387

Email : michaelscherthala@gmail.com. Web : www.stmcc.in

NAME OF COURSE : **BASICS OF C PROGRAMMING**
COURSE CODE : **PY 074**
NO OF STUDENTS ENROLLED : **30**

CONTENTS

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Course objective:

- To teach the basic principles of C programming language.
- To provide design and development of C programming skill.
- To provide practical exposure to write, debug and execute the C program.

Course outcome:

- Gaining knowledge on basics of parts of a computer.
- Able to draw the flow chart of and write algorithms.
- Able to design and develop C Problem solving skill.
- Able to develop small programming in C.
- Able to debug a program.
-

The course has two sessions

- 1.Theory session (17 hrs)
2. Practical Session (15hours)

Basics of C Programming (32hrs)

Introduction to Programming languages, History of C programming Language, Applications of C, Basic structure of a C programming, Tokens in C -Keywords and Identifiers-Introduction to data types in C, Scope of Local and Global variable, Operators and Expressions -Console I/O operations – printf() and scanf(), Decision making statements , Control flow statements- Unconditional branching statements, Conditional control flow statements, Loop control in C ,Functions in C- Function calling - Call by value and Call by reference , Return type in function, User defined functions- Arrays -1-D array,2-D array-Introduction to pointer variable

List of experiments

1. Palindrome
2. Find the square root of number
3. Leap Year
4. Matrix Creation
5. Matrix Addition and subtraction
6. Matrix Multiplication
7. Factorial of a given number
8. Fibonacci Series
9. Student records using arrays
10. Sum, Mean and average using Pointers

Class Schedule Format 2022-2023

<u>Department:Physics</u>			<u>Course:Basics of C Programming</u>		
Sl No	Date	Day	Time	Name of Teacher	Class Room No
1	20-09-2022	1	3.30 to 4.30	Dr.Mini P A	A12
2	22-09-2022	2	3.30 to 4.30	Dr.Dhwajam D B	A12
3	23-09-2022	3	3.30 to 4.30	Dr.Smisha M A	A12
4	24-09-2022	4	9.30 to 3.30	Dr.Mini P A	B.Voc Lab
5	27-09-2022	5	3.30 to 4.30	Dr.Mini P A	A12
6	28-09-2022	6	3.30 to 4.30	Dr.Dhwajam D B	A12
7	29-09-2022	7	3.30 to 4.30	Dr.Smisha M A	A12
8	01-10-2022	8	9.30 to 3.30	Dr.Smisha M A	B.Voc Lab
9	11-10-2022	9	3.30 to 4.30	Dr.Mini P A	A12
10	12-10-2022	10	3.30 to 4.30	Dr.Dhwajam D B	A12
11	13-10-2022	11	3.30 to 4.30	Dr.Smisha M A	A12
12	15-10-2022	12	9.30 to 3.30	Dr.Dhwajam D B	B.Voc Lab
13	18-10-2022	13	3.30 to 4.30	Dr.Mini P A	A12
14	19-10-2022	14	3.30 to 4.30	Dr.Dhwajam D B	A12
15	20-10-2022	15	3.30 to 4.30	Dr.Smisha M A	A12
16	25-10-2022	16	3.30 to 4.30	Dr.Mini P A	A12
17	26-10-2022	17	3.30 to 4.30	Dr.Dhwajam D B	A12
18	27-10-2022	18	3.30 to 4.30	Dr.Smisha M A	A12

Candidate Code	NAME	20-09-2022	22-09-2022	23-09-2022	24-09-2022	27-09-2022
1	23020136001 AKHIL DAMODAR M	<i>Akhil</i>	<i>Akhil</i>	<i>Akhil</i>	<i>Akhil</i>	<i>Akhil</i>
2	23020136002 AKHIL JYOTHISH	<i>Akhil</i>	<i>Akhil</i>	<i>Akhil</i>	<i>Akhil</i>	<i>Akhil</i>
3	23020136003 ALEN ALEX VARGHESE	<i>Alen</i>	<i>Alen</i>	<i>Alen</i>	<i>Alen</i>	<i>Alen</i>
4	23020136004 ANN MARY PAUL	<i>Ann Mary Paul</i>	<i>Ann Mary Paul</i>	<i>Ann Mary Paul</i>	<i>Ann Mary Paul</i>	<i>Ann Mary Paul</i>
5	23020136005 ANUPAMA S	<i>Anupama S</i>	<i>Anupama S</i>	<i>Anupama S</i>	<i>Anupama S</i>	<i>Anupama S</i>
6	23020136006 ASIF ANSARI	<i>Asif Ansari</i>	<i>Asif Ansari</i>	<i>Asif Ansari</i>	<i>Asif Ansari</i>	<i>Asif Ansari</i>
7	23020136007 ASWIN RAJ S.	<i>Aswin Raj S.</i>	<i>Aswin Raj S.</i>	<i>Aswin Raj S.</i>	<i>Aswin Raj S.</i>	<i>Aswin Raj S.</i>
8	23020136008 AVYA M	<i>Ava M</i>	<i>Ava M</i>	<i>Ava M</i>	<i>Ava M</i>	<i>Ava M</i>
9	23020136009 DILLYS DIXON	<i>Dillys Dixon</i>	<i>Dillys Dixon</i>	<i>Dillys Dixon</i>	<i>Dillys Dixon</i>	<i>Dillys Dixon</i>
10	23020136010 DON SANTHOSH	<i>Don Santhosh</i>	<i>Don Santhosh</i>	<i>Don Santhosh</i>	<i>Don Santhosh</i>	<i>Don Santhosh</i>
11	23020136011 GOURI SUDHEER	<i>Gouri Sudheer</i>	<i>Gouri Sudheer</i>	<i>Gouri Sudheer</i>	<i>Gouri Sudheer</i>	<i>Gouri Sudheer</i>
12	23020136012 GOUTHAM G	<i>Goutham G</i>	<i>Goutham G</i>	<i>Goutham G</i>	<i>Goutham G</i>	<i>Goutham G</i>
13	23020136013 SULEKHA SHIBU	<i>Sulekha Shibu</i>	<i>Sulekha Shibu</i>	<i>Sulekha Shibu</i>	<i>Sulekha Shibu</i>	<i>Sulekha Shibu</i>
14	23020136014 SWETHA S KUMAR	<i>Swetha S Kumar</i>	<i>Swetha S Kumar</i>	<i>Swetha S Kumar</i>	<i>Swetha S Kumar</i>	<i>Swetha S Kumar</i>
15	23020136015 TOJU MATHEW	<i>Toju Mathew</i>	<i>Toju Mathew</i>	<i>Toju Mathew</i>	<i>Toju Mathew</i>	<i>Toju Mathew</i>
16	23020136016 AARON JOHAN FABER	<i>Aaron Johan Faber</i>	<i>Aaron Johan Faber</i>	<i>Aaron Johan Faber</i>	<i>Aaron Johan Faber</i>	<i>Aaron Johan Faber</i>
17	23020136017 ABIN SABIJ	<i>Abin Sabij</i>	<i>Abin Sabij</i>	<i>Abin Sabij</i>	<i>Abin Sabij</i>	<i>Abin Sabij</i>
18	23020136018 AKHILA MANOJ	<i>Akhila Manoj</i>	<i>Akhila Manoj</i>	<i>Akhila Manoj</i>	<i>Akhila Manoj</i>	<i>Akhila Manoj</i>
19	23020136019 ALAN MANUEL	<i>Alan Manuel</i>	<i>Alan Manuel</i>	<i>Alan Manuel</i>	<i>Alan Manuel</i>	<i>Alan Manuel</i>

	23020136020	AMAL XAVIER	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
21	23020136021	AMALJITH. T. A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
22	23020136022	AMRUTHA ANIL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23	23020136023	ANUSREE RAJESH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
24	23020136024	ASHIK MICHAEL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
25	23020136025	IRFAN MUHAMMED ROSHAN S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
26	23020136026	MARY ROSE A B	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
27	23020136027	NIKESH KUMAR R	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
28	23020136028	NIMMYMOL P X	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
29	23020136029	NOBIN ABRAHAM	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
30	23020136030	ROSHVIN M J	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
31	23020136031	SREELAL S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
32	23020136032	SREERAG R	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
33	23020136033	T S ATHUL KRISHNA	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

Course Coordinator

Head of the I

Candidate Code	NAME	Attendance				
		28-09-2022	29-09-2022	01-10-2022	11-10-2022	12-10-2022
23020136001	AKHIL DAMODAR M	AKHIL	AKHIL	AKHIL	AKHIL	AKHIL
23020136002	AKHIL JYOTHISH	AKHIL	AKHIL	AKHIL	AKHIL	AKHIL
23020136003	ALEN ALEX VARGHESE					
23020136004	ANN MARY PAUL	Ann Mary Paul	Ann Mary Paul	Ann Mary Paul	Ann Mary Paul	Ann Mary Paul
23020136005	ANUPAMA S	ANUPAMA	ANUPAMA	ANUPAMA	ANUPAMA	ANUPAMA
23020136006	ASIF ANSARI	ASIF ANSARI	ASIF ANSARI	ASIF ANSARI	ASIF ANSARI	ASIF ANSARI
23020136007	ASWIN RAJ S.	ASWIN RAJ S.	ASWIN RAJ S.	ASWIN RAJ S.	ASWIN RAJ S.	ASWIN RAJ S.
23020136008	AVYA M	AVYA M	AVYA M	AVYA M	AVYA M	AVYA M
23020136009	DILLYS DIXON	Dillys Dixon	Dillys Dixon	Dillys Dixon	Dillys Dixon	Dillys Dixon
23020136010	DON SANTHOSH	Don Santhosh	Don Santhosh	Don Santhosh	Don Santhosh	Don Santhosh
23020136011	GOURI SUDHEER	Gouri Sudheer	Gouri Sudheer	Gouri Sudheer	Gouri Sudheer	Gouri Sudheer
23020136012	GOUTHAM G	Goutham G	Goutham G	Goutham G	Goutham G	Goutham G
23020136013	SULEKHA SHIBU	SULEKHA	SULEKHA	SULEKHA	SULEKHA	SULEKHA
23020136014	SWETHA S KUMAR	SWETHA S KUMAR	SWETHA S KUMAR	SWETHA S KUMAR	SWETHA S KUMAR	SWETHA S KUMAR
23020136015	TOJU MATHEW	TOJU MATHEW	TOJU MATHEW	TOJU MATHEW	TOJU MATHEW	TOJU MATHEW
23020136016	AARON JOHAN FABER	AARON JOHAN FABER	AARON JOHAN FABER	AARON JOHAN FABER	AARON JOHAN FABER	AARON JOHAN FABER
23020136017	ABIN SABU	ABIN SABU	ABIN SABU	ABIN SABU	ABIN SABU	ABIN SABU
23020136018	AKHILA MANOJ					
23020136019	ALAN MANUEL					

23020136020	AMAL XAVIER	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136021	AMALJITH, T. A	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136022	AMRUTHA ANIL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136023	ANUSREE RAJESH	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136024	ASHIK MICHAEL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136025	IRFAN MUHAMMED ROSHAN S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136026	MARY ROSE A B	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136027	NIKESH KUMAR R	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136028	NIMMYMOL P X	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136029	NOBIN ABRAHAM	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136030	ROSHVIN M J	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136031	SREELAL S	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136032	SREERAG R	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23020136033	T S ATHUL KRISHNA	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
Course Coordinator						
Head of the Department						

St. Michael's College, Cherthala

Add-on Course Examination March 2023

Discipline: Physics

Course Title: Basics of C Programming

Time: 1 Hours

Max

Marks: 30

SECTION A

(Answer all questions. Each question carries 1 mark)

1. What is a Token?
2. Explain the difference between = and == operator
3. What are Keywords?
4. Explain the term "SCOPE" of a variable.
5. Why C language is called a middle level language?
6. Execution of every C programme start with ----- Function.
7. What are statements in C programme?
8. What is the significance of expressions in C programme?
9. Define Identifiers.
10. Why Keywords cannot be used as Identifiers?

(10x1 =10 Marks)

SECTION B

(Answer any 5 questions. Each question carries 2 marks)

11. Name different types of loops in C with syntax
12. Explain the use of break and continue statement in loops with example.
13. What is an array? Explain the declaration and initialization of one- and two-dimensional arrays with example.
14. Explain the basic structure of a C programme
15. What is the difference between local and global variable
16. What is the difference between unary and binary Operator?
17. List the basic data types in C Programme.
18. Which is the function used to declare the functions that are not intended to return values?

(5x2 =10 Marks)

SECTION C

(Answer any 1 question. Each question carries 10 marks)

19. What is an operator? Explain the arithmetic, relational, logical, and assignment operators in C language.
20. (a) Design and develop a C program to read a year as an input and find whether it is leap year or not.
- (b) Design and develop a C program to find a given number is palindrome or not.

(1*10=10 Marks)

Discipline : Physics					
Course Title : Basics Of C Programming					
Date of Examination : 16/03/2023			Maximum Marks: 30		
Sl No	Candidate Code	Name of the Student	Mark Obtained		
<u>1</u>	23020136001	AKHIL DAMODAR M	21	70.00	B
<u>2</u>	23020136002	AKHIL JYOTHISH	17	56.67	D
<u>3</u>	23020136003	ALEN ALEX VARGHESE	0	ABSEN T	ABSEN T
<u>4</u>	23020136004	ANN MARY PAUL	21	70.00	B
<u>5</u>	23020136005	ANUPAMA S	16	53.33	D
<u>6</u>	23020136006	ASIF ANSARI	17	56.67	D
<u>7</u>	23020136007	ASWIN RAJ S.	21	70.00	B
<u>8</u>	23020136008	AVYA M	22	73.33	B
<u>9</u>	23020136009	DILLYS DIXON	20	66.67	C
<u>10</u>	23020136010	DON SANTHOSH	22	73.33	B
<u>11</u>	23020136011	GOURI SUDHEER	25	83.33	A
<u>12</u>	23020136012	GOUTHAM G	23	76.67	B
<u>13</u>	23020136013	SULEKHA SHIBU	27	90.00	A+
<u>14</u>	23020136014	SWETHA S KUMAR	27	90.00	A+
<u>15</u>	23020136015	TOJU MATHEW	14	46.67	E
<u>16</u>	23020136016	AARON JOHAN FABER	21	70.00	B
<u>17</u>	23020136017	ABIN SABU	22	73.33	B
<u>18</u>	23020136018	AKHILA MANOJ	26	86.67	A
<u>19</u>	23020136020	AMAL XAVIER	21	70.00	B
<u>20</u>	23020136021	AMALJITH. T. A	16	53.33	D
<u>21</u>	23020136022	AMRUTHA ANIL	25	83.33	A
<u>22</u>	23020136023	ANUSREE RAJESH	20	66.67	C
<u>23</u>	23020136024	ASHIK MICHAEL	17	56.67	D
<u>24</u>	23020136025	IRFAN MUHAMMED ROSHAN S	21	70.00	B
<u>25</u>	23020136026	MARY ROSE A B	27	90.00	A+
<u>26</u>	23020136028	NIMMYMOL P X	21	70.00	B

<u>27</u>	23020136029	NOBIN ABRAHAM	21	70.00	B
<u>28</u>	23020136031	SREELAL S	18	60.00	C
<u>29</u>	23020136032	SREERAG R	18	60.00	C
<u>30</u>	23020136033	T S ATHUL KRISHNA	19	63.33	C





ADD ON COURSE: Basics of C Programming (32hrs)

It is a Certificate course offered by the Department of Physics in association with the department of Vocational Disciplines in St. Michael's college, Cherthala.

30 students from BSc physics admitted and 29 students successfully completed the certificate course .

Admission eligibility:

- Admission into this Certification course will be approved on the basis of merit in Class 12.
- Candidates applying to this course should have basic awareness of computers and also programming techniques.

Programme Objective:

The course will provide a basic knowledge of C language and enables students to create logic to develop programs and applications in C language. Also, by learning the basic programming constructs they can easily switch over to any other language in future.

Duration: 6 months

Examination and Evaluation:

There will be periodical assignments, theoretical and practical examinations at the end of the course to evaluate the progress of students in their learning. Moreover, the essential purpose of evaluating student learning is to determine whether the students are achieving the learning outcomes laid out for them. A three hour examination will be conducted based on 60% weightage for theory and 40% weightage for practical.

Programme fees: ₹ 1000

Duration of the program : 6 Months

Course objective:

- To teach the basic principles of C programming language.
- To provide design and development of C programming skill.
- To provide practical exposure to write, debug and execute the C program.

Course outcome:

- Gaining knowledge on basics of parts of a computer.
- Able to draw the flow chart of and write algorithms.
- Able to design and develop C Problem solving skill.
- Able to develop small programming in C.
- Able to debug a program.

The course has two sessions

1.Theory session

2. Practical Session

Syllabus:

Basics of C Programming (32hrs)

Introduction to Programming languages, History of C programming Language, Applications of C, Basic structure of a C programming, Tokens in C -Keywords and Identifiers- Introduction to data types in C, Scope of Local and Global variable, Operators and Expressions -Console I/O operations – printf() and scanf(), Decision making statements , Control flow statements- Unconditional branching statements, Conditional control flow statements, Loop control in C ,Functions in C- Function calling - Call by value and Call by reference , Return type in function, User defined functions- Arrays -1-D array,2-D array- Introduction to pointer variable

List of experiments

11. Palindrome
12. Find the square root of number
13. Leap Year
14. Matrix Creation
15. Matrix Addition and subtraction
16. Matrix Multiplication
17. Factorial of a given number
18. Fibonacci Series
19. Student records using arrays
20. Sum, Mean and average using Pointers



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Principal
St. Michael's College
Cherthala