



DEPARTMENT OF CIVIL ENGINEERING

Ref No: GRIET/CE/IC/G/22-23

02 January 2023

From,
Dr C. Lavanya
Professor & HOD
Civil Engineering Dept

To
The Principal,
GRIET,
Hyderabad.

Subject: Value Added Course on Problem Solving using C Language Reg.,
Sir,

With reference to the above subject, we the Department of Civil Engineering introduce Value Added Course on "Problem Solving using C Language" in associate with placement office, for II-year B. Tech Civil Engineering. Certificates will be awarded to all students who clear both Internal and External examination. The examination pattern is 30 marks for Internal Examination and 70 marks for External Examination. Kindly provide the subject code for the proposed Value-Added Course. Timetable and syllabus are enclosed below.

Thanks & Regards

Dr, C. Lavanya
Professor & HOD
Civil Engineering Dept
PROFESSOR AND HEAD
Department of Civil Engineering
Goreangaru Institute of
Engineering and Technology
Bachupally, Kukatpally,
Hyderabad-500 090

J. Baveed

Principal

approved with a Course Code
as GR22V8007

dl
31/1/23

Value Added Course

on

Problem Solving using C Language



Gokaraju Rangaraju

Institute of Engineering and Technology

(Autonomous)

Bachupally, Hyderabad,

Telangana. India-500090

Office: 7207344440, 7207714441

www.griet.ac.in

About the Institute

Gokaraju Rangaraju Institute of Engineering and Technology (GRIET) is established in 1997 by Dr. G Gangaraju as a self-financed institute under the aegis of Gokaraju Rangaraju Educational Society. GRIET is approved by AICTE, New Delhi, permanently affiliated to and autonomous under JNTUH, Hyderabad. GRIET is committed to quality education and is known for its innovative teaching practices.

The mission of GRIET is to achieve and impart quality education with an emphasis on practical skills and social relevance. Presently GRIET has 9 UG and 6 PG programs. The programs are NBA accredited in CE, CSE, ECE, EEE, IT, and ME. CSBS, AI&ML, DS are new colleges. The institute is accredited by NAAC with 'A++' grade.

About the Department

The Department of Civil Engineering is established in the year 2008, with an intake of 60 students. It is a fast-growing discipline in tune with the infrastructure growth.

The department has master's programs in Structural Engineering, established in the year 2014 with an intake of 18 students which is further increased to 30 students from the academic year 2017. The department has well equipped laboratories with an emphasis on practical skills and fundamentals. The Department has well experienced and talented faculty which includes nine doctorates.



Course Objective:

The objective of the course is to equip the student with problem solving skills using C Language.

Course Outline:

The students are made to write C programs on their own for sets of both mathematical and other engineering problems after exposing them to the different constructs of C language namely Input/output, assignments, iteration and control structures. Basic understanding of File handling using c, Structures and Unions.

1. Practice Sessions Conducted in Moodle.
2. Regular assignments and quizzes are also conducted in Moodle

Course Contents

1. Introduction and Real time applications of C language,
2. Basics of C language , C-tokens, Variables and basic datatypes.
3. Different types of Operators like Arithmetic, relational, and logical operators, Increment and decrement operators, conditional, assignment, bitwise and special operators.

4. Functions –Basic concepts, Types, Categories of functions, Recursive Function – Introduction, Examples
5. Introduction to Arrays- 1D Arrays, 2 D Arrays, linear search, binary search and basic sorting technique using bubble sort etc.,
6. Introduction to Strings, description and use of various string functions of string library
7. Introduction to pointers and basic File operations

Important Dates

VAC Duration :

04th January to 02nd February 2023

(Daily 02:30 PM – 04:00PM)

Targeted Audience

Students of II B. Tech Civil Engineering

Resource Person

1. Mrs. Geeta Mahadeo Ambildhuke,
Assistant Professor, CSE Department
2. Mr. Arun Kumar
Assistant Professor, CSE Dept.

Patrons

Dr. Jandhyala N. Murthy,
Director, GRIET

Dr. J. Praveen,
Principal, GRIET

Dr. K. V. S. Raju,
Senior Administrative officer, GRIET

Convenor

Dr. C. Lavanya,
Professor & HOD, CE, GRIET

Coordinators

1. Mr. Akula Prakash
Assistant Professor, CE, GRIET
2. Ms. K. Hemalatha
Assistant Professor, CE, GRIET





Gokaraju Rangaraju Institute of Engineering and Technology

Department of Civil Engineering

Timetable for Value Added Course AY: 2022-23 (II-Semester)

w.e.f : 04 th January 2023				
Day	08:50am – 11:20am	11:20am -12:00pm	12:00pm – 02:30pm	2:30pm-4:00pm
Monday	Regular Classwork	LUNCH BREAK	Regular Classwork	VAC- C Language
Tuesday	Regular Classwork		Regular Classwork	VAC- C Language
Wednesday	Regular Classwork		Regular Classwork	VAC- C Language
Thursday	Regular Classwork		Regular Classwork	VAC- C Language
Friday	Regular Classwork		Regular Classwork	VAC- C Language
Saturday	Regular Classwork		Regular Classwork	VAC- C Language

Sub. Code	Sub. Short form	Subject	Speaker Name
	VAC- C Language	Problem Solving using C Language	1. Geeta Mahadeo Ambildhuke Emp ID: 1671 CSE Department (Training Coordinator) 2. Arun Kumar Emp ID: 1661 CSE Dept. (Moodle Coordinator)

[Signature]
2/1/23
HOD-CE

PROFESSOR AND HEAD
Department of Civil Engineering
Gokaraju Rangaraju Institute of
Engineering and Technology
Bachupally, Kukatpally,
Hyderabad-500 090

One Credit Course

Course Title : Problem Solving using C Language

Course Objective: The objective of the course is to equip the student with problem solving skills using C Language.

Course Outline: The students are made to write C programs on their own for sets of both mathematical and other engineering problems after exposing them to the different constructs of C language namely Input/output, assignments, iteration and control structures. Basic understanding of File handling using c, Structures and Unions.

1. Practice Sessions Conducted in Moodle.
2. Regular assignments and quizzes are also conducted in Moodle

Syllabus:

1. Introduction of C Language, Real time applications of C language, Introduction to the structure of C program, Input/output formatting using scanf and printf functions.
2. Basics of C language , C-tokens, Variables and basic datatypes.
3. Different types of Operators like Arithmetic, relational, and logical operators, Increment and decrement operators, conditional, assignment, bitwise and special operators.
4. Introduction to Conditional statements- Simple-if and if-else statement, Else-if ladder statement, Nested – If and Switch case statement.
5. Description of Various Looping Structure- While loop statement, For loop statement, Do-while loop statement
6. Functions –Basic concepts, Types, Categories of functions, Recursive Function – Introduction, Examples
7. Introduction to Arrays- 1D Arrays, 2 D Arrays, linear search, binary search and basic sorting technique using bubble sort
8. Introduction to Strings, description and use of various string functions of string library
9. Introduction to pointers and basic File operations
10. Introduction to structures and unions

Session Plan

Session1: Introduction to C Programming language, Structure of C program and basic Input/Output operations using Scanf and Printf functions.

Session2: Basics of C Language – Tokens, Data Types

Session 3: Practice on basics of data types, variables and I/O functions

Session 4: Arithmetic, relational, and logical operators, Increment and decrement operators, conditional, assignment and special operators.

Session 5: Practice session on Arithmetic, relational, and logical operators

Session 6: Practice session on, Increment and decrement operators, conditional, assignment and special operators.

Session 7: Special Operators, Operator's precedence, operators associativity, Expression evaluation rules.

Session 8: Bit- wise operators.

Session 9: Practice on Bitwise operators

Session 10: Simple-if and if-else statement

Session 11: Practice Session on simple if and if-else statement

Session 12: Else-if ladder statement, Nested – If and Switch case statement.

Session 13: Practice session on simple Else-if ladder, , Nested – If and Switch case

Session 14: While loop statement, For loop statement, Do-while loop statement

Session 15: Practice session on all loops

Session 16: Functions –Basic concepts, Types, Categories of functions

Session 17: Practice session on functions

Session 18: Recursive Function – Introduction, Examples

Session 19: Recursive Function – practice

Session 20: Arrays – 1 Dimensional array

Session 21: Practice session on Arrays

Session 22: Linear search, Binary Search, Sorting on arrays

Session 23: Practice session on searching and sorting of arrays

Session 24: Arrays – 2 Dimensional array

Session 25: Introduction to strings , basic String functions

Session 26: Practice of strings and String Functions

Session 27: Introductions to Pointers and Redirecting I/O – Files & File Operations.

Session 28: Practice problems on File operations

Session 29: Introduction to Structures and Unions

Session 30: Practice session on structure

Targeted Audience :

1. B. Tech (Civil) II Year Students

Resource Persons

1. Mrs. Geeta Mahadeo Ambildhuke, (Training Coordinator)
Assistant Professor, CSE Department
2. Mr. Arun Kumar (Moodle Coordinator)
Assistant Professor, CSE Dept.



Gokaraju Rangaraju Institute of Engineering & Technology

(Autonomous)

Bachupally, Nizampet Road, Kukatpally, Hyderabad-500009

Value Added Course on Problem Solving using C Language

OVERALL TRAINING SCHEDULE

Day / Time	2.30 pm to 4.00 pm
Monday	C- LAB
Tuesday	Theory Session
Wednesday	C-LAB
Thursday	C-LAB
Friday	Theory Session
Saturday	Theory Session

Theory Sessions	
S.No.	Date
Session -1	4.01.2023
Session -2	6.01.2023
Session -3	7.01.2023
Session -4	10.01.2023
Session -5	13.01.2023
Session -6	17.01.2023
Session -7	20.01.2023
Session -8	21.01.2023
Session -9	24.01.2023
Session -10	27.01.2023
Session -11	28.01.2023
Session -12	31.01.2020
Session -13	03.02.2023
Session -14	04.02.2023

Lab- Sessions	
S.No.	Date
Session-1	05.01.2023
Session-2	09.01.2023
Session-3	11.01.2023
Session-4	12.01.2023
Session-5	18.01.2023
Session-6	19.01.2023
Session-7	23.01.2023
Session-8	25.01.2023
Session-9	30.01.2023
Session-10	01.02.2023
Session-11	02.02.2023

Coordinator

1)

[Signature]
21/1/2023

2)

[Signature]
21/1/2023

[Signature]
21/1/23
HOD

PROFESSOR AND HEAD
Department of Civil Engineering
Gokaraju Rangaraju Institute of
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Hyderabad-500 090



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Value Added Course on Problem Solving using C Language

LIST OF REGISTERED PARTICIPANTS

dt: 31/12/2023

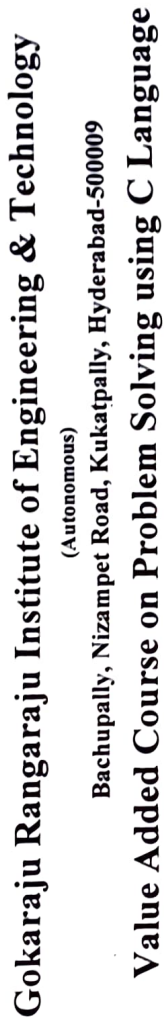
S. No	Roll No.	Name of the Student	Email ID	Phone Number
1	21241A0101	ADAKULAPALLY ANIL	anil21241a0101@grietcollage	9121461236
2	21241A0104	AMIRNENI YASASVI	yasasvi21241a0@grietcollage.com	7569468941
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25	22245A0103	AFSANA	afsana22245a0103@grietcollage.com	9398053897
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29	22245A0107	J RUSHIKESH	rushikesh22245a0107@grietcollage.com	8688469603
30	22245A0108	JANGAM RAJESHWARI	rajeshwari22245a0108@grietcollage.com	7032693025
31	22245A0109	JANGAPELLI VASU	vasu22245a0109@grietcollage.com	8688415521
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33	22245A0111	NEELI BHAVESH	bhaves22245a0111@grietcollage.com	7794872776
34	22245A0112	NANDI SRINIVASA SAI MURARI	murari22245a0112@grietcollage.com	9959414178
35	22245A0113	VIGNAN NANDIGAM	vignan22245a0113@grietcollage.com	8977222551
36	22245A0114	ORSU AJAYKUMAR	Ajaykumar22245a0114@grietcollage.com	8500600183

Coordinator

1) 31/12/2023

2) 31/12/2023

PROFESSOR AND HEAD
Department of Civil Engineering
Gokaraju Rangaraju Institute of
Engineering and Technology
Bachupally, Nizampet Road, Hyderabad-500009

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Gokaraju Rangaraju Institute of Engineering & Technology
(Autonomous)

Bachupally, Nizampet Road, Kukatpally, Hyderabad-500009

Value Added Course on Problem Solving using C Language

DAY WISE ATTENDANCE - LAB SESSIONS

S. No	Roll No.	Session 1 05.01.2023	Session 2 09.01.2023	Session 3 11.01.2023	Session 4 12.01.2023	Session 5 18.01.2023	Session 6 19.01.2023	Session 7 23.01.2023	Session 8 25.01.2023	Session 9 30.01.2023	Session 10 01.02.2023	Session 11 02.02.2023
1	21241A0101	P	P	P	P	P	P	P	P	P	P	P
2	21241A0104	P		P	P	P	P	P	P	P		P
3	21241A0105	P	P	P	P	P	P	P	P	P	P	P
4	21241A0107	P	P	P		P	P		P	P	P	P
5	21241A0109	P	P	P	P	P	P	P	P		P	P
6	21241A0111	P		P	P	P	P	P	P	P	P	P
7	21241A0112	P	P	P	P		P	P	P	P	P	P
8	21241A0114	P	P	P	P	P	P	P	P	P	P	P
9	21241A0116	P	P		P	P	P	P	P	P		P
10	21241A0121	P	P	P	P	P	P	P	P	P	P	P
11	21241A0122	P		P	P	P	P		P	P	P	P
12	21241A0126	P	P	P	P	P	P	P	P	P	P	P
13	21241A0127	P	P		P	P	P	P	P	P	P	P
14	21241A0128	P	P	P	P	P	P	P		P	P	P
15	21241A0131	P	P		P	P	P	P	P	P	P	P
16	21241A0132	P	P	P	P	P	P	P	P	P	P	P
17	21241A0133	P	P	P	P	P		P	P	P	P	P
18	21241A0134	P	P		P	P	P	P	P		P	P
19	21241A0138	P	P	P	P		P	P	P	P	P	P

20	21241A0143	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	21241A0151	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
22	21241A0153	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
23	22245A0101	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	22245A0102	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
25	22245A0103	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
26	22245A0104	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
27	22245A0105	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28	22245A0106	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
29	22245A0107	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
30	22245A0108	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
31	22245A0109	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
32	22245A0110	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
33	22245A0111	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34	22245A0112	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35	22245A0113	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	22245A0114	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Coordinating

1) July - 2023

2) 2023



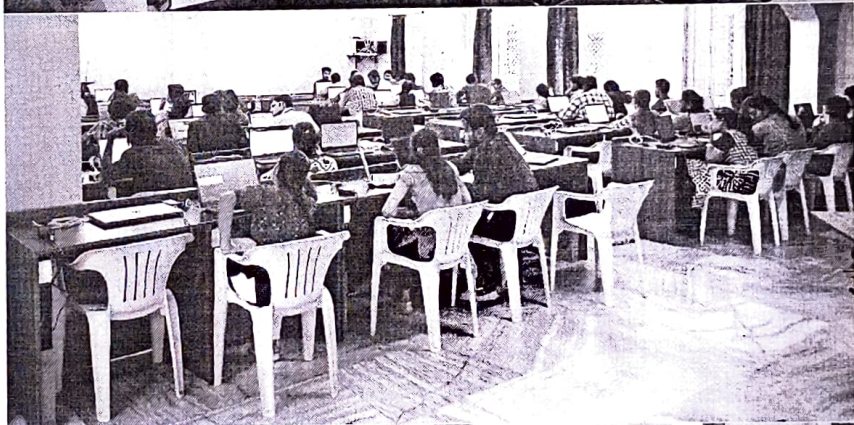
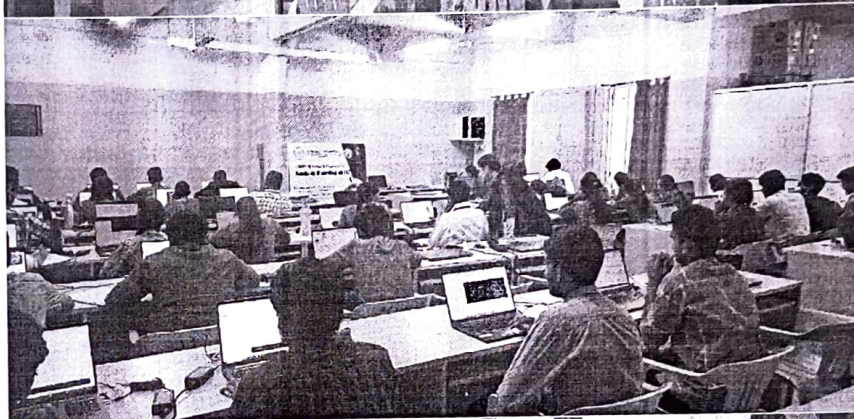
GRIET/6C/G/22-23

EVENT SUMMARY REPORT

Griet /Other institutes/Organization Address:	GRIET				
Department	Civil Engineering	Professional Body	Institutional Body		
Nature of the Event (Co & Extra Curricular Activities -Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Any Prof. Body events/Presentation/ Conference/ Industry Visit)	Value Added Course				
Title / Theme of the Event	Problem Solving using C Language				
Details of the Coordinator& Designation	Convenor Dr. C. Lavanya, Professor & HOD, CE, GRIET Coordinators 1. Mr. Akula Prakash Assistant Professor, CE, GRIET 2. Ms. K. Hemalatha Assistant Professor, CE, GRIET				
Event Dates/Days	From	To	No. of Days		
	04/01/2023	02/02/2023	25		
Details of the Speaker / Guest Organization Address:	1. Mrs. Geeta Mahadeo Ambildhuke, Assistant Professor, CSE Department 2. Mr. Arun Kumar Assistant Professor, CSE Dept.				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No.of Faculty	No. of UG students	No.of PG Student s	No.of outside participants	Total Participants
	-	36	-	-	36

Faculty Names & Designation	-
Summary of the Event	Following topics were covered during the entire training sessions 1. Introduction of C Language, Real time applications of C language, Introduction to the structure of C program, Input/output formatting using scanf and printf functions. 2. Basics of C language , C-tokens, Variables and basic datatypes. 3. Different types of Operators like Arithmetic, relational, and logical operators, Increment and decrement operators, conditional, assignment, bitwise and special operators. 4. Introduction to Conditional statements- Simple-if and if-else statement, Else-if ladder statement, Nested – If and Switch case statement. 5. Description of Various Looping Structure- While loop statement, For loop statement, Do-while loop statement 6. Functions –Basic concepts, Types, Categories of functions, Recursive Function – Introduction, Examples 7. Introduction to Arrays- 1D Arrays, 2 D Arrays, linear search, binary search and basic sorting technique using bubble sort 8. Introduction to Strings, description and use of various string functions of string library 9. Introduction to pointers and basic File operations 10. Introduction to structures and unions
IRG (in rupees) Deposited A/C no A/C name and date and other details (enclose proof-A/C statement)	Nil
Expenditure (in rupees) (Enclose proof-bills)	Nil
POs attained with this Event (number and description)	1. Apply knowledge of mathematics, science and fundamentals of Civil Engineering. 2. Analyze problem and interpret the data. 4. Identify, formulate, analyze and interpret data to solve Civil Engineering problems. 6. Understand the impact of engineering solutions in a global, economic and societal context. 9. Work effectively as an individual or in a team and to function on multi disciplinary context. 10. Communicate effectively with engineering community and society.

**Photographs of the
event**
(Hard copy and Soft copy)





GOKARAJU RANGARAJU
Institute of Engineering and Technology



Problem Solving using C Language

04th January to 02nd February 2023

Organized by
Department of Civil Engineering

Certificate of Participation

This is to certify that **B. SWATHI** Bearing Roll Number 21241A0107 Pursuing II B. Tech I Semester in Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology has attended Value Added Course on Problem Solving using C Language organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during 04th January 2023 to 02nd February 2023


Mr. Akula Prakash
Course Coordinator, CE


Dr. G. LAVANYA
Convener & HOD, CE


Dr. J. PRAVEEN
Principal, GRIET

Proofs:

1. Certificates copies
2. Profile of Speaker
3. PPT/Material as applicable. etc.,



GOKARAJU RANGARAJU
Institute of Engineering and Technology



Problem Solving using C Language

04th January to 02nd February 2023

Organized by
Department of Civil Engineering

Certificate of Participation

This is to certify that **KUPPALA NAGA NARENDRA** Bearing Roll Number 21241A0132 Pursuing II B. Tech I Semester in Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology has attended Value Added Course on Problem Solving using C Language organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during 04th January 2023 to 02nd February 2023.


Mr. Akula Prakash
Course Coordinator, CE


Dr. G. LAVANYA
Convener & HOD, CE


Dr. J. PRAVEEN
Principal, GRIET


GOKARAJU RANGARAJU
 Institute of Engineering and Technology
 VALUE ADDED COURSE
 on




Problem Solving using C Language

04th January to 02nd February 2023
 Organized by
 Department of Civil Engineering

Certificate of Participation

This is to certify that **G.NAPURAM SAI BHANVITHA** Bearing Roll Number **22245A0105** Pursuing **II B. Tech I Semester** in Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology has attended Value Added Course on Problem Solving using C Language organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during 04th January 2023 to 02nd February 2023


 Mr. Akula Prakash
 Course Coordinator, CE


 Dr. C. LAVANYA
 Convener & HOD, CE


 Dr. J. PRAVEEN
 Principal, GRIET


GOKARAJU RANGARAJU
 Institute of Engineering and Technology
 VALUE ADDED COURSE
 on




Problem Solving using C Language

04th January to 02nd February 2023
 Organized by
 Department of Civil Engineering

Certificate of Participation

This is to certify that **JANGAM RAJESHWARI** Bearing Roll Number **22245A0108** Pursuing **II B. Tech I Semester** in Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology has attended Value Added Course on Problem Solving using C Language organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during 04th January 2023 to 02nd February 2023


 Mr. Akula Prakash
 Course Coordinator, CE


 Dr. C. LAVANYA
 Convener & HOD, CE


 Dr. J. PRAVEEN
 Principal, GRIET

Signature of Coordinators

1. Mr. Akula Prakash
Assistant Professor, CE, GRIET.
2. Ms. K. Hemalatha
Assistant Professor, CE, GRIET

Signature of Convener

Dr. C. Lavanya,
 Professor & HOD, CE, GRIET.
 PROFESSOR AND HEAD
 Department of Civil Engineering
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Gokaraju Rangaraju Institute of Engineering & Technology

(Autonomous)

Bachupally, Nizampet Road, Kukatpally, Hyderabad-500009

Value Added Course on Problem Solving using C Language

INTERNAL ASSESSMENT QUESTION PAPER

Q1 to Q5 (Each carry 1 mark)

1. C is a which level language.?

- A. Low Level
- B. High Level
- C. Low + High
- D. None

2. An Identifier can start with.?

- A. Alphabet
- B. Underscore (_) sign
- C. Any character that can be typed on a keyboard
- D. Option A & Option B

3. Choose a correct statement.

- A. C Compiler converts your C program into machine readable language.
- B. C Editor allows you to type C Programs. It is just like a Notepad with extra options.
- C. Console shows the output of a C Program if it is text output.
- D. All the above

4. Range of signed char and unsigned char are.?

- A. -128 to +127 and 0 to 255
- B. 0 to 255 and -128 to +127
- C. -128 to -1 and 0 to +127
- D. 0 to +127 and 128 to -1

5. Which printf() statement will you use to print out a (float value) and b (double value)?

Float a = 3.14;

Double b = 3.14;

- A. printf("%f %lf", a, b);
- B. printf("%f %f", a, b);
- C. printf("%Lf %Lf", a, b);
- D. printf("%f %Lf", a, b);

Q6 to Q15 (Each carry 2 marks)

6. Which is the correct output

```
#include<stdio.h>
```

```
main()
```

```
{
```

```
    float t = 2;
```

```
    switch(t)
```

```
    {
```

```
        case 2: printf("Hi");
```

```
        default: printf("Hello");
```

```
    }
```

```
}
```

A. Hi

B. Hi Hello

C. Hello

D. Error

7. Choose right statement.

```
int main()
```

```
{    float c = 3.5 +
```

```
4.5;
```

```
    printf("%f", c);
```

```
    return 0;
```

```
}
```

A. 8.0

B. 8.000000

C. 8

D. 7

8. Choose a right statement.

```
int a = 5/2;
```

```
int b = 5.0/2;
```

```
float c = 5 /
```

```
2; float d =
```

```
5/2.0;
```

A. a = 2, b = 2, c = 2.0, d= 2.5

B. a = 2, b = 2.0, c = 2, d= 2.0

C. a = 2, b = 2.5, c = 2.5, d= 2.5

D. a = 2.5, b = 2.5, c = 2.5, d= 2.5

9. What is the output ? int main()

```

{   int i = -3;   int k = i%2;
  int p = i%-2;   printf(" k=%d
p=%d", k, p);   return 0; }

```

- A. k= -1 p=1
- B. k=-1 p=-1
- C. k=1 p=1
- D. k=1 p=-1

10. which is the correct output ? #include<stdio.h>

```

int main()
{
  int i = -3;
  int j = 5;   int k = i++ + --j;
  printf(" i=%d j= %d k=%d",i, k,
p);
  return 0;
}

```

- A. i=-4 j= 4 k=0
- B. i=-2 j= 5 k=-2
- C. i=-2 j= 4 k=1
- D. i=-3 j= 5 k=2

11. What will be the output ? #include<stdio.h>

```

int main()
{   int
x=0;
  if(x=0)
    printf(" It is Zero \n");
  else
    printf(" It is not Zero \n");
}

```

- A. It is Zero
- B. It is not Zero
- C. Runtime Error
- D. None

12. what will be the output of the following code?

```

#include<stdio.h>
int main()
{
  int count,digit=0;
  count=1;
  while(digit<=9)
  {
    printf("%d
",++count);

```

```

        digit++;
    }
}

```

- A. 2 3 4 5 6 7 8 9 10 11
 - B. 1 2 3 4 5 6 7 8 9 10
 - C. 2 3 4 5 6 7 8 9 10
 - D. 1 2 3 4 5 6 7 8 9 10
- 11

13. If the following variables are set to values as shown below then what will be the value of expression

```

answer=2;
marks=10;
!((answer<10)&& (marks>2));

```

- A. 1
- B. 0
- C. -1
- D. 2

14. What will be the output

```

#include<stdio.h>
int main()
{
    int i=65;
    char j='A';
    if(i==j)
        printf("c is the best");
    else
        printf("c is headache");
}

```

- A. c is the best
- B. c is headache
- C. Runtime error
- D. None

15. What is the right way to initialize the array

- A. int a[6] = {1, 3, 5,7,2,8};
- B. int a{} = {1, 3, 5,7,2,8};
- C. int a{6} = {1, 3, 5};
- D. int a(6) = {1, 3, 5,7,2,8};

Part B: Write C
Program



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Problem Solving using C Language

04th January to 02nd February 2023

Organized by
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Certificate of Participation

This is to certify that **NANDI SRINIVASA SAI MURARI** Bearing Roll Number **22245A0112** Pursuing **II B. Tech I Semester** in Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology has attended Value Added Course on **Problem Solving using C Language** organized by Department of Civil Engineering, Gokaraju Rangaraju Institute of Engineering and Technology during 04th January 2023 to 02nd February 2023.

Mr. Akula Prakash
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Dr. C. LAVANYA
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