

**Certificate Course on Programming Logic
and Design**



REPORT ON CERTIFICATE COURSE (2016-2017)

1. Name of the Course: Certificate Course on Programming Logic and Design.
2. Department: Computer Science
3. Duration: 22.08.2016 to 06.09.2016 No. of hours – 30 Hours, No. of days - 15 Days
4. Whether brochure containing details of curriculum, assessment, procedures, etc., is enclosed? Yes
5. Number of students enrolled: 30 No.s
6. Whether list of students is enclosed? (Yes/No): Yes
7. Brief Report of the Certificate Course along with the outcome:

Objectives:

The certificate course is aimed to impart programming logic and design skills to the UG students especially aimed for the entry level UG Students.

Report:

A total of 30 Students have joined the certificate course. These students are quite punctual and found enthusiastic while learning the course.

Outcome: The course have shown profound improvement in programming logic and design skills in UG entry level students. The course also motivated these students to pursue next level advanced programming languages in forthcoming academic year.


Signature of I/C of Dept.:.....

Babu Jagjivan Ram Government Degree College
Narayanaguda, Hyderabad. (T.S.) 500029

NOTICE

20.08.2016

This is to inform all the students of B.A, B.Com and B.Sc that the department of computer science is organizing a certificate course titled "Programming Logic and Design" to scheduled from 22.08.2016 through 06.09.2016 for a period of 30 Hours. Interested students are requested to contact the in-charge, department of computer science and register for the course on or before 21.08.2016.


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Babu Jagjivan Ram Government Degree College
Vittal Wadi, Narayanaguda,
Hyderabad, T.S.



BJR Government Degree College, Hyderabad
Department of Computer Science

Certificate Course on
Programming Logic and Design

Important Computer Skills




About the Course: The certificate course is aimed to impart programming logic and design skills to the UG students especially aimed for the entry level UG Students

Duration: 22.08.2016 – 06.09.2016
(30 Hours)

Registration: Please register on or before 21.08.2016

Contact: Incharge, Department of Computer Science

Course Brochure



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Attal Wadi, Narayanguda,
Hyderabad, T.S.

Programming Logic and Design

Duration: 30 Hours

Syllabus

Hours	Topic
1-2.	Course Orientation, Using <u>Canvas</u> , Downloading resources
3-4	Computer Programming Introduction, Binary Numbering System
5-6	Input, Processing, Output; Variables, Data Types, Pseudo code
7-8	Flowcharting, Using Raptor© to flowchart
9-10	Modular Programming
11-12	Modular Programming
13-14	Decision Structures: Boolean Logic
15-16	Decision Structures: Case form
17-18	Looping Structures: While Do, Do Until
19-20	Looping Structures: For loop
21-22	Data Validation
23-24	Arrays, Processing Arrays with Loops
24-26	Object Oriented Programming Introduction
27-28	Class ,Object, Polymorphism
29-30	Inheritance, Dynamic Binding


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16011070156501	BADAGONI ALLAJI
16011070156503	B PRADEEP KUMAR
16011070156504	B SRIKANTH
16011070156505	C DAYANAND
16011070156506	G REVATHI
16011070111504	HAMESH
16011070111505	J KASEEM
16011070111506	KATIKAM VENKATESH
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16011070060001	BATTULA VIVEKANANDA REDDY
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16011070445002	BANDARI ARUN KUMAR
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16011070445004	B NIKITHA
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16011070445006	CHOULAM VIJAY MADHAV
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Final Assessment – Question Paper

06.09.2016

Sub: PROGRAMMING LOGIC AND DESIGN

1. A VARIABLE'S _____ IN NO WAY INFLUENCES HOW THE METHOD IS CALLED FROM ANOTHER MODULE
(A) LOCAL NAME
(B) DATA TYPE
(C) SIZE
(D) DEFINITION

2. YOU CAN CIRCUMVENT POTENTIAL PROBLEM CAUSE BY A USER'S INVALID DATA ENTRIES BY _____ THE USER'S INPUT
(A) GROUPING
(B) DENYING
(C) VALIDATING
(D) MODIFYING

3. THE ORDER THAT ARRAY ELEMENTS ARE STORED IN BASE ON THEIR MEMORY ADDRESS IS THE _____ ORDER
(A) NUMERIC
(B) PHYSICAL
(C) LOGICAL
(D) INDEX

4. YOU NEED TO UNDERSTAND A SUBROUTINE'S _____ IN ORDER TO USE IT
(A) INTERNAL STRUCTURE
(B) PROGRAMMING STYLE
(C) LOCAL VARIABLES
(D) INTERFACE

5. WHEN MATCHING RECORDS BETWEEN FILES THEY MUST BE :
(A) SORTED IN THE SAME ORDER
(B) PADDED TO HAVE THE SAME LENGTH
(C) BACKED UP
(D) PRINTED

6. WHEN A MENU CONTAINS NUMEROUS OPTION, IT IS MORE ELEGANT TO USE A(N) _____ STRUCTURE THAN A SERIES OF DECISIONS.
(A) CASE
(B) LOOP
(C) IF-THEN-ELSE
(D) BATCH

7. WHAT TYPE OF VARIABLES CAN BE USED TO REDUCE UNNECESSARY COMPARISION IN A BUBBLE SORT.
(A) TEMPORARY
(B) FLAG
(C) INTEGER
(D) ARRAY

8. USUALLY A PROGRAM THAT PROCESSES AN ARRAY USES A :
(A) DECISION
(B) OUTPUT REPORT
(C) BATCH
(D) LOOP

9. WHEN MERGING FILES, A _____ IS USED TO DETERMINE WHICH FILE THE NEXT RECORD COMES FROM
(A) COMPARISON
(B) ARRAY
(C) SEQUENCE
(4) FLAG

10. WHEN MERGING 2 FILES, WHAT CONDITION TERMINATES THE MAIN LOOP OF THE PROGRAM.

- (A) WHEN THE FIRST FILE REACHES EOF
- (B) WHEN THE SECOND FILES REACHES EOF
- (C) WHEN BOTH FILES REACH
- (D) WHEN 100 RECORDS HAVE BEEN PROCESS

11. ONE OF THE THINGS YOU NEED TO FIND OUT ABOUT A MODULE YOU WISH TO CALL IS THE:

- (A) ARGUMENT LIST
- (B) LOCAL VARIABLE NAMES
- (C) NUMBER OF LINES CODE
- (D) ORIGINAL PROGRAMMERS NAME

12. PASSING VALUES TO MODULE HELPS FACILITATE:

- (A) CONFUSION
- (B) ENCAPSULATION
- (C) SHARING
- (D) REUSE

13. WHAT IS THE LOOSEST STYLE OF COUPLING?

- (A) EXTERNAL
- (B) DATA-SHARED
- (C) CONTROL
- (D) DATA

14. WHICH OF THE FOLLOWING SORTING METHODS IS THE LEAST EFFICIENT?

- (A) INSERTION
- (B) SELECTION
- (C) BASIC BUBBLE SORT
- (D) OPTIMIZED BUBBLE SORT

15. IN A (N) _____ SORT ALL OF THE ARRAY ELEMENTS ARE MOVED TO MAKE ROOM FOR THE NEWLY SORTED ELEMENT.

- (A) SWAP
- (B) SELECTION
- (C) BUBBLE
- (D) INSERTION

16. WHAT TYPE OF VARIABLE IS USED TO HELP MOVE ARRAY ELEMENTS IN A SELECTION SORT?

- (A) SWAP
- (B) TEMPORARY
- (C) FLAG
- (D) ARRAY

17. _____ CONTAINS AN EXTRA FIELD IN EACH RECORD THAT HOLDS A POINTER TO THE NEXT LOGICAL RECORD.

- (A) LINK LIST
- (B) INDEX
- (C) PHYSICAL MEMORY
- (D) RANDOM-ACCESS MEMORY

18. A _____ APPLICATION USUALLY INVOLVES THE USER TYPING A CHOICE AT THE COMMAND PROMPT

- (A) GRAPHICAL USER INTERFACE
- (B) BATCH
- (C) CONSOLE
- (D) GUI


19. WHEN PROGRAMMER WRITES A PROGRAM ,SHE MAY LEAVE CERTAIN MODULE DEFINITIONS AS _____ WHEN WORKING ON THE MAINLINE LOGIC.

- (A) SHELLS
- (B) STUBS
- (C) STANDARDS
- (D) BATCHES



Course Completion - Result - programming Logic & Design (2016-2017)

16011070156501	BADAGONI ALLAJI	Course Completed
16011070156503	B PRADEEP KUMAR	Course Completed
16011070156504	B SRIKANTH	Course Completed
16011070156505	C DAYANAND	Course Completed
16011070156506	G REVATHI	Course Completed
16011070111504	HAMESH	Course Completed
16011070111505	J KASEEM	Course Completed
16011070111506	KATIKAM VENKATESH	Course Completed
16011070111507	K SRINUNAIK	Course Completed
16011070111508	K VEERESH	Course Completed
16011070060001	BATTULA VIVEKANANDA REDDY	Course Completed
16011070060002	BHOOMPALLY SRIRAM	Course Completed
16011070060003	DUGYALA ANJANI	Course Completed
16011070060004	KUDIKALAWAR DHEERAJ KUMAR	Course Completed
16011070060005	MEDISHETTI RAMU	Course Completed
16011070445001	ANANTHULA VENKANNA	Course Completed
16011070445002	BANDARI ARUN KUMAR	Course Completed
16011070445003	BHUPATHI PREM KUMAR	Course Completed
16011070445004	B NIKITHA	Course Completed
16011070445005	B SHIVA KRUSHNA	Course Completed
16011070445006	CHOULAM VIJAY MADHAV	Course Completed
16011070445007	C SURENDHAR NAIDU	Course Completed
16011070445008	DHARAVATH SUNITHA	Course Completed
16011070445009	GANNAMRAJU SAITEJASWINI	Course Completed
16011070445010	JAKKAGALLA KRISHNA KUMAR	Course Completed
16011070445501	ANASUYA	Course Completed
16011070445502	BANOTH SUNITHA	Course Completed
16011070445503	BENNURI SAVITHRA	Course Completed
16011070445504	B RAMUDU	Course Completed
16011070445505	CHINTHALA SHANKAR	Course Completed
16011070445506	GADALA SAMBARAJU	Course Completed
16011070445507	GADDAM AKHIL KUMAR	Course Completed
16011070445508	GALIPELLI APARNA	Course Completed
16011070445509	G KRISHNA	Course Completed
16011070445510	G SNEHA	Course Completed


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 Vittal Wadi, Narayanguda,
 Hyderabad. T.S.

Course Completion Certificate(s)



BJR GOVERNMENT DEGREE COLLEGE
Narayanguda, Hyderabad



Department of Computer Science/Applications

Certificate

This is to certify that Mr/Ms. P PRAVEEN KUMAR

bearing registered no. 1070-15-129-013 has successfully completed
the certificate course on PROGRAMMING LOGIC AND DESIGN

held during 22-08-2016 to 06-09-2016.

K. Srinivasa Rao
Coordinator

[Signature]
Principal

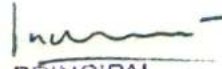
[Signature]
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Hyderabad. T.S.

Students Attendance

Students Attendance - Programming Logic and Design (2016-2017)

SNo	Sname	22.09.16	23.09.16	24.09.16	26.09.16	27.09.16	28.09.16	30.09.16	31.09.16	01.10.16
16011070156501	BADAGONI ALLAJI	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji	Balaji
16011070156503	B PRADEEP KUMAR	P.R.K	P.R.K	P.R.K	P.R.K	P.R.K	P.R.K	P.R.K	P.R.K	P.R.K
16011070156504	B SRIKANTH	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth
16011070156505	C DAYANAND	Dayanand	Dayanand	Dayanand	Dayanand	Dayanand	Dayanand	Dayanand	Dayanand	Dayanand
16011070156506	G REVATHI	Revathi	Revathi	Revathi	Revathi	Revathi	Revathi	Revathi	Revathi	Revathi
16011070111504	HAMESH	Hamesh	Hamesh	Hamesh	Hamesh	Hamesh	Hamesh	Hamesh	Hamesh	Hamesh
16011070111505	J KASEEM	Kaseem	Kaseem	Kaseem	Kaseem	Kaseem	Kaseem	Kaseem	Kaseem	Kaseem
16011070111506	KATIKAM VENKATESH	Katikam	Katikam	Katikam	Katikam	Katikam	Katikam	Katikam	Katikam	Katikam
16011070111507	K SRINUNAIK	Srinunai	Srinunai	Srinunai	Srinunai	Srinunai	Srinunai	Srinunai	Srinunai	Srinunai
16011070111508	K VEERESH	Veeresh	Veeresh	Veeresh	Veeresh	Veeresh	Veeresh	Veeresh	Veeresh	Veeresh
16011070060001	BATTULA VIVEKANANDA REDDY	Vivekan	Vivekan	Vivekan	Vivekan	Vivekan	Vivekan	Vivekan	Vivekan	Vivekan
16011070060002	BHOOMPALLY SRIRAM	Sriram	Sriram	Sriram	Sriram	Sriram	Sriram	Sriram	Sriram	Sriram
16011070060003	DUGYALA ANJANI	Anjan	Anjan	Anjan	Anjan	Anjan	Anjan	Anjan	Anjan	Anjan
16011070060004	KUDIKALAWAR DHEERAJ KUMAR	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj
16011070060005	MEDISHETTI RAMU	Ramu	Ramu	Ramu	Ramu	Ramu	Ramu	Ramu	Ramu	Ramu
16011070445001	ANANTHULA VENKANNA	Anantha	Anantha	Anantha	Anantha	Anantha	Anantha	Anantha	Anantha	Anantha
16011070445002	BANDARI ARUN KUMAR	Arun	Arun	Arun	Arun	Arun	Arun	Arun	Arun	Arun
16011070445003	BHUPATHI PREM KUMAR	Bhupathi	Bhupathi	Bhupathi	Bhupathi	Bhupathi	Bhupathi	Bhupathi	Bhupathi	Bhupathi
16011070445004	B NIKITHA	Nikitha	Nikitha	Nikitha	Nikitha	Nikitha	Nikitha	Nikitha	Nikitha	Nikitha
16011070445005	B SHIVA KRUSHNA	Shiva	Shiva	Shiva	Shiva	Shiva	Shiva	Shiva	Shiva	Shiva
16011070445006	CHOULAM VIJAY MADHAV	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay	Vijay
16011070445007	C SURENDRAR NAIDU	Suren	Suren	Suren	Suren	Suren	Suren	Suren	Suren	Suren
16011070445008	DHARAVATH SUNITHA	Sunitha	Sunitha	Sunitha	Sunitha	Sunitha	Sunitha	Sunitha	Sunitha	Sunitha
16011070445009	GANNAMRAJU SAITEJASWINI	Saiteja	Saiteja	Saiteja	Saiteja	Saiteja	Saiteja	Saiteja	Saiteja	Saiteja
16011070445010	JAKKAGALLA KRISHNA KUMAR	Krishna	Krishna	Krishna	Krishna	Krishna	Krishna	Krishna	Krishna	Krishna
16011070445501	ANASUYA	Anasuya	Anasuya	Anasuya	Anasuya	Anasuya	Anasuya	Anasuya	Anasuya	Anasuya
16011070445502	BANOTH SUNITHA	Banoth	Banoth	Banoth	Banoth	Banoth	Banoth	Banoth	Banoth	Banoth
16011070445503	BENNURI SAVITHRA	Savithra	Savithra	Savithra	Savithra	Savithra	Savithra	Savithra	Savithra	Savithra
16011070445504	B RAMUDU	Ramudu	Ramudu	Ramudu	Ramudu	Ramudu	Ramudu	Ramudu	Ramudu	Ramudu
16011070445505	CHINTHALA SHANKAR	Shankar	Shankar	Shankar	Shankar	Shankar	Shankar	Shankar	Shankar	Shankar

SNo.	Sname	02.09.16	03.09.16	04.09.16	06.09.16
16011070156501	BADAGONI ALLAJI	Balaji	Balaji	Balaji	Balaji
16011070156503	B PRADEEP KUMAR	P.R.K	P.R.K	P.R.K	P.R.K
16011070156504	B SRIKANTH	Srikanth	Srikanth	Srikanth	Srikanth
16011070156505	C DAYANAND	Dayanand	Dayanand	Dayanand	Dayanand
16011070156506	G REVATHI	Revathi	Revathi	Revathi	Revathi
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16011070111506	KATIKAM VENKATESH	Katikam	Katikam	Katikam	Katikam
16011070111507	K SRINUNAIK	Srinunai	Srinunai	Srinunai	Srinunai
16011070111508	K VEERESH	Veeresh	Veeresh	Veeresh	Veeresh
16011070060001	BATTULA VIVEKANANDA REDDY	Vivekan	Vivekan	Vivekan	Vivekan
16011070060002	BHOOMPALLY SRIRAM	Sriram	Sriram	Sriram	Sriram
16011070060003	DUGYALA ANJANI	Anjan	Anjan	Anjan	Anjan
16011070060004	KUDIKALAWAR DHEERAJ KUMAR	Dheeraj	Dheeraj	Dheeraj	Dheeraj
16011070060005	MEDISHETTI RAMU	Ramu	Ramu	Ramu	Ramu
16011070445001	ANANTHULA VENKANNA	Anantha	Anantha	Anantha	Anantha
16011070445002	BANDARI ARUN KUMAR	Arun	Arun	Arun	Arun
16011070445003	BHUPATHI PREM KUMAR	Bhupathi	Bhupathi	Bhupathi	Bhupathi
16011070445004	B NIKITHA	Nikitha	Nikitha	Nikitha	Nikitha
16011070445005	B SHIVA KRUSHNA	Shiva	Shiva	Shiva	Shiva
16011070445006	CHOULAM VIJAY MADHAV	Vijay	Vijay	Vijay	Vijay
16011070445007	C SURENDRAR NAIDU	Suren	Suren	Suren	Suren
16011070445008	DHARAVATH SUNITHA	Sunitha	Sunitha	Sunitha	Sunitha
16011070445009	GANNAMRAJU SAITEJASWINI	Saiteja	Saiteja	Saiteja	Saiteja
16011070445010	JAKKAGALLA KRISHNA KUMAR	Krishna	Krishna	Krishna	Krishna
16011070445501	ANASUYA	Anasuya	Anasuya	Anasuya	Anasuya
16011070445502	BANOTH SUNITHA	Banoth	Banoth	Banoth	Banoth
16011070445503	BENNURI SAVITHRA	Savithra	Savithra	Savithra	Savithra
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16011070445505	CHINTHALA SHANKAR	Shankar	Shankar	Shankar	Shankar


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