The Islamia University of Bahawalpur Pakistan

Rahim Yar Khan Campus

Department of Statistics

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| Class | BS statistics | Semester | BS 3rd | session | BS(2018-2022)fall |
| Instructor | Madiha masood | e-mail | madihasajid092@gmail.com | program | BS |
| Course title | C++ programming language | Course code | STAT-00303 | Credit hours | 3 |
| Lecture timings | Wednesday Thursday  (10:00 – 11:30)  (am) (am) | | | | |

**Description:** This course is designed to develop to know the Microsoft offices , important of computer programming in our daily life .

**Course objective:** The objective of the course is to enable the students to meet their real life communication needs.

**Course outline of C++( STAT00303)**

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| 1 | Introduction to programming, what is programming, who is programmer, problem solving  Advantage of programming, flow chart |
| 2 | Guideline for drawing flow chart with exp, what is low level and high level language, assemble language, types of code , data types |
| 3 | Debugging in turbo c++ , operators , input , output |
| 4 | What is Simple programming with explanation and flow chart |
| 5 | What is Control structure its types , explanation |
| 6 | What is Relational operators, if statement , flow chart , explanation |
| 7 | What is If –else statement, flow chart , explanation |
| 8 | What is Multiple if-else statement , flow chart, expianation |
|  | Mid term |
| 9 | What is Nested if structure, explanation, flow chart |
| 10 | What is Compound conduction with structures |
| 11 | What is Conditional operators , explanation ,flow chart |
| 12 | Def of loop, while loop, explanation , flow chart |
| 13 | What is do while loop, explanation, flow chart |
| 14 | What is For loop explanation , flow chart |
| 15 | What is nested loop , flow chart , explanation |
| 16 | What is break statement explanation | |
|  | Final term | |

**Books recommended:**

C++ programming book It series

**Learning activitives:**

Learning activities may include in class presentations, homework assignments from the textbook, small group or class discussion, and individual or group projects or exercises.

**Mark distribution:**

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| **Activity** | **Marks** |
| Classroom participation/ group work | 5% |
| Quiz/ surprise test | 5% |
| Assignments | 5% |
| Presentations/seminar | 5% |
| Mid-term exam | 30% |
| Final term exam | 50% |
| **Total** | **100%** |

**Students responsibilities**

1. Students must attend the class. At least 80% attendance is mandatory.
2. Students must arrive on time and remain in class for the entire period.
3. Cellular phone must be turned off.
4. Test questions may be taken from text book reading, additional material discussed in the class and / or other assigned reading.