

# Department of Information Technology

NATIONAL INSTITUTE OF TECHNOLOGY, SRINAGAR

**Subject: COMPUTER ORGANIZATION AND ARCHITECTURE**

**Teacher: Dr. Janibul Bashir**

## Assignment 1

### Submission policies (Due Date 10 September)

- I. A maximum of two students are allowed to form a group for the assignment.*
- II. A document created using latex is to be submitted. The document should contain all the required solutions with neat and clean diagrams.*
- III. A detailed presentation of the solution is to be presented before the class.*
- IV. Plagiarism is strictly prohibited. If any plagiarism is found the students will be given zero marks in all the future assignments.*
- V. The softcopy of the pdf created using latex is to be sent to [nitsriassignments@gmail.com](mailto:nitsriassignments@gmail.com)*
- VI. In the subject, write Solution of Assignment 1 EnrollmentNo1 EnrollmentNo2*

1. Install Ubuntu on your system.
2. Learn to use an ARM cross compiler. Write in your own words about cross compilation.
3. Install arm-linux-gnueabi cross compiler.
4. Generate the assembly code and an executable for the hello-world.c (a program printing hello world) program using the cross-compiler.
5. Study and Install the QEMU tool on your system and run programs using that tool.