Department of Information Technology

NATIONAL INSTITUTE OF TECHNOLOGY, SRINAGAR

Subject: COMPUTER ORGANIZATION AND ARCHITECTURE

Teacher: Dr. Janibul Bashir

Assignment 1

Submission policies (Due Date 15 August)

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.*

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.