

**Indian Institute of Technology Roorkee**  
**Department of Computer Science and Engineering**  
**CSN-101: Introduction to Computer Science and Engineering**

**Term Project**

**Date: Sep 28, 2019**

**Due Date: October 8, 2019 10:00 PM**

**Motivation:**

There are many different topics, which are discussed in Computer Science and Engineering (CSE). Some are completely a subject matter of CSE, some are interdisciplinary in nature involving solving some problems of other domain with the help of knowledge and techniques of CSE. In this term project, we will focus to know the basics of these topics and subtopics as a part of this course. It is expected to learn the topic and its subtopics along with some examples of real-life applications in a scientific way or as a problem solving approach for the associated engineering problems.

Students will search for the topic given to him/her from the web resources (Wikipedia pages, books, homepages, articles, blogs, or elsewhere), make **a report (PDF file) of maximum 2 pages only** (in the prescribed format as mentioned in the instructions below) and **a PPT file of maximum 5 slides** to explain us during the seminar talks to be scheduled in the coming days. Hence, students are **not allowed to just COPY+PASTE** the contents from the available materials or resources in web, rather the **contents written in their OWN WORDS** as much as possible from their understanding of the contents read from the resources. A few figures may be copied from those resources. But, at the end of the report, it is **MANDATORY to make a list of resources (web links or book details), which were used by the student to make that report.**

**Instructions:**

1. This is a homework to be done by individual student.
2. Prepare a **2-page (maximum, excluding the Title page and the Reference list page) report DOC (DOCX or ODT) file**. Then convert it to **PDF file**. The technical details in the report may address the following things (from your own understanding to explain another person):
  - a. What does <<Topic Name>> mean?
  - b. What are the subtopics or problems discussed under this <<Topic Name>>? Some brief description of them.
  - c. What are the uses or applications in real-life problem solving covered under this <<Topic Name>>? Give some examples.
  - d. References
3. Prepare a **PPT (PPTX) file containing maximum 5 slides excluding the Title slide and the Reference slide**. Due to time-constraint, we will have to complete the seminar of 5 mins by each of you. Hence, the PPT file once submitted by this deadline will be loaded in the projector during presentations in the classes and no further change/update will be possible.
4. The report file (PDF file) and slides (PPT file) should be kept in one folder and the Zipped folder to be uploaded in Moodle submission link as **191140XX.ZIP or 191140XX.RAR**, if the enrollment number of the student is **191140XX**.
5. Submit the folder of your Term Project through Moodle submission link only: <https://moodle.iitr.ac.in/mod/assign/view.php?id=448>. Any submission through email will not be considered and deleted. **Submission Deadline (without penalty) in Moodle: October 8, 2019 10:00 PM.**

6. Late Submission Moodle Link: <https://moodle.iitr.ac.in/mod/assign/view.php?id=449>. With 20% penalty in marks due to late submission. No further consideration of any submission after Oct 11, 2019 10 PM IST. **Late Submission Deadline (with 20% penalty in marks) in Moodle: October 11, 2019 10:00 PM.**

**Guidelines for Preparing the Report: [Strictly follow]**

- Margins: Top=Bottom=Left=Right=1”
- Line Space = 1.5
- Font type: Times New Roman
- Font size: Title = 24 (NO Bold), Author/affiliation= 18 (No Bold), Headings=16 (bold), Sub-headings=14 (Bold), Sub-Sub-headings=12 (Bold), further sub-headings=12 (bold+Italics), running text=12.
- A template of the Title page is also shared for your use.
- All figures must have a caption (for example, Figure 3. Xxx) and should be placed at the bottom of the figure. All figures should be legible and text inside the figures must be readable.
- All tables must have a caption (for example, Table 1. Xxx) and should be placed at the top of the table.
- All equations must have numbering.
- References must be cited in IEEE (for example: [1]) or ACM (for example [Kumar et al., 2016]) format.