

## 15B17CI672: Programming Languages Lab

06 February 2018

### Project Notice

As part of the Programming Languages lab, students are supposed to perform a mini project based on the concepts learned. To this end, guidelines and evaluation criteria of mini project are given below

Total Marks: 25 (Synopsis – 5, Project execution – 10, Documentation – 5 and Presentation – 5)

Minimum Team Size: 2

Maximum Team Size: 3

Deadline for Synopsis submission: **24 Feb 2018**

Submission Details: A hard copy of mini project need to be submitted with the following content

1. Title of the Project (Discuss with Lab faculty for deciding project title)
2. Details of Team (Names and Roll numbers)
3. Abstract of the project (Max. 250 words)
4. Scope of the project (Max. 500 words)
  - a. Functional requirements (Min. 2 \* team size)
  - b. Non functional requirements (Min. 1 \* team size)
  - c. Description of the modules of the project. (Min. 2 \* team size)
5. Design of the project
6. Implementation details (at least 300 lines of code per team member).
7. Testing details (Min. 1 \* team size test cases)

Sno. 1-4 have to be submitted as part of Synopsis (i.e, by 24<sup>th</sup> Feb 2018), and Sno. 1-7 have to be submitted as complete documentation which is to be submitted at the time of final evaluation (likely to be held before T3 Examinations).

Concepts to be used: Students may choose Python or Java programming to complete the project. However, students should choose the programming language for the concept according to the following table.

Sno	Concept	Python	Java
1	Object orientated concepts	Yes	Yes
2	Concurrent Programming	Yes	Yes
3	GUI programming	Yes	Yes
4	Networking – Socket programming	Yes	Yes
5	Database programming	Yes	No
6	Web programming	Yes	No
7	Exception handling	Yes	Yes
8	Event driven programming	Yes	Yes
9	Parsing/ Regular expressions/ Compiler Design	Yes	Yes
10	Image processing	Yes	Yes
11	Data Analytics	Yes	Yes

Dr. P. Raghu Vamsi  
Lab Coordinator