

Software Systems Development - Monsoon 2020

Objective: The aim of this course is to provide a working knowledge on tools and technologies for building software systems. At the end of this course, you are expected to be

- Comfortable enough to work with various Unix-like computing environments
- Able to write simple to complex scripts/programs
- In a position to build small to medium sized software applications using various tools and technologies to automate tasks/solve problems

Course Topics: Linux and Shell Scripting, Javascript and related libraries, OOPS, Python, Basics of SDLC and Networking.

Reference Books:

1. Mastering Linux Shell Scripting : A practical guide to Linux command-line, Bash scripting, and Shell programming, by Mokhtar Ebrahim, Andrew Mallett
2. Learning Python: Powerful Object-Oriented Programming, by Mark Lutz
3. JavaScript: The Definitive Guide, by David Flanagan

Workbook authored by the course instructors shall be used as and when needed.

LAB WORK: Linux Commands, Shell Scripting, GitHub, HTML, CSS, JavaScript, Cyber Attacks, XML, JSON, LAMP Stack, Python

Course Instructors:

Dr. Y. Raghu Reddy
Sai Anirudh Karre
Lalit Mohan
Abhinav Gupta

Teaching Assistants: TBA

Office Hours: TBA

Grading policy:

- The students can request a re-evaluation of the grade until a week after the particular grade has been posted. After that the student may not discuss prior grades with the instructor (even if the instructors or TA's are at fault).

- There will be **no make up activity/lab** under any circumstances unless a prior permission is granted.
- Late submissions will not be entertained.

Grade Distribution:

The following grade cut-off shall be applicable:

Class Project	25 %
Assignments	40 %
Lab Activities/ Quizzes	35 %
≥ 90	A
$\geq 80 \text{ \& } < 90$	B
$\geq 70 \text{ \& } < 80$	C
$\geq 60 \text{ \& } < 70$	D
< 60	F

I reserve the right to make adjustments to this plan upwards or downwards (distribution as well as cut-offs) based on our progress through the semester and/or performance of the class.

Policy on joint work and outside help:

Plagiarism or copying is strictly prohibited. Any one caught in copy case shall get "0" in that assignment/activity as well as 2 other assignments/activities. Also, its upto to the discretion of the instructor to give an "F" for the entire course.

Absentee policy:

Please read and adhere to the following rules. These rules are not meant to be demeaning or penal. They are stated to establish a clear understanding of my expectations for student participation and demeanor in the classroom. My highest priority is your success in this course and your continuing success at IIIT and beyond. These rules are meant to help/motivate you in achieving that success.

- There shall be no attendance policy for the lecture sessions. However, if any quiz/activity is held during the lecture session that you are absent, you will be given a '0' for the same. There will be NO make up classes/quizzes/activities.
- You are expected to attend all Lab sessions.