Course Outline

**Pre-work**

**Duration: 8 hours**

Welcome to Pre-work for the deep learning course. You’re joining thousands of learners currently enrolled with Great Lakes institute of management. We are excited to have you in the class and look forward to your contributions to the learning community.

To begin, I recommend taking a few minutes to explore the course site. Review the material we’ll cover each week, and preview the projects and structured milestones you’ll need to complete to pass the course. Click **Discussions** to see forums where you can discuss the course material with fellow students taking the class. View the program calendar to make yourself aware of the program schedule and various live sessions. We strongly recommend that you become very, very comfortable with the LMS “Olympus”. It has everything you will need for the program. All announcements will be made in the “Ongoing activity” and “Upcoming Activity”

If you have questions about course content, please post them in the forums to get help from others in the course community. For technical problems with the platform or labs, or any other issues contact the program office [dlcp-support@greatlearning.in](mailto:dlcp-support@greatlearning.in)

Good luck as you get started, and we hope you enjoy the course!

**Course Description**

The pre-work is intended to aid you in your learning journey. Deep learning is an intensive program, and it is highly recommended that you are comfortable with the pre-requisites: Python, Probability, and Linear Algebra. You may spend either lot of time or little time on pre-work depending on your background. If you are someone who are aware of the the topics, learned them during graduate days, but you haven’t used them, we strongly suggest that you review all the topics to be prepared for the modules. If you are someone who is comfortable with one of the items say python or linear algebra and probability, you can pick up the other pieces and make yourself comfortable. Even if you are comfortable with all the topics, we still recommend you to review the content to strengthen your basics. Start early with the pre-work because once the course modules start, you will not have enough time to catch up.

**Course Objectives**

To prepare you with all the necessary pre-requisites for deep learning.

**Course Prerequisites (if any)**

* Students are expected to have Anaconda installed in their Laptops for using jupyter notebooks. They need to ensure that their laptops meet the technical requirements as mentioned in the technical requirements document available in “Program Overview” Module.
* Make sure you have both python 2 and python 3 series installed.

**Pedagogy**

The objectives envisaged in this course will be met through Video lectures, Hands-on lab exercises and assignments. There is no grading for this module, hence no need to submit assignments.

**Course Content**

* Python for Deep Learning – 5 hours
* Probability – 1 hour
* Linear Algebra – 2 hours