**FAQs regarding Grades**

**Q1.1 : Is this a Pass/Fail module?**

A : No, it is not a Pass/Fail module. You will be graded based on the components mentioned below. It is mandatory that you "attempt" at least 80% of the graded components to Pass this course. This means you can't simply drop the Mini-Project (30%) or the AI Theory Quiz (25%). You may miss a few components, if you have to, but the total weight of the components you miss should not be more than 20%. Be careful, and choose wisely, in case you do need to miss out on any component.

**Q1.2 : What are all the graded components for the course?**

A : Please note all the graded components carefully, and pay attention to the calendar so that you do not miss any.

* 5% : LAMS enbedded quizzes throughout the semester : Weeks 1 to 13 (online)
* 25% : Lab Exercises 3, 4, 5, 7, 8 : Weeks 5, 6, 7, 10, 12 during the Lab Sessions
* 15% : DS Theory Quiz based on Lectures (theoretical) : Recess Week at the Lab
* 25% : AI Theory Quiz based on Lectures (theoretical) : Week 14 (Monday) at Lab
* 30% : Mini-Project (mostly DS) : During Week 6 to 14 : Due at the end of Week 14

More details on each of the graded components are posted below, in each respective FAQ section. Please check.

**Q1.3 : Will there be a final examination for the course?**

A : No. This is a 100% Continuous Assessment (CA) course, which means there is no final examination. Please note the above graded components carefully, and mark your calendar so that you do not miss out on any of the components. The Course Calendar should list each graded component against the respective weeks. The theory quizzes will be held for the entire batch on the same day, but the Lab Exercises will be held during your respective Lab Sessions across the marked weeks.

**Q1.4 : Will I get to know the marks for all the graded components?**

A : No, you will get to know the marks for some of the graded components, as follows. No exceptions; sorry.

* Marks will be disclosed during the semester : LAMS (5%) + Lab Exercises (25%) + DS Theory Quiz (15%) : Total 45%
* Marks will not be disclosed (will only reflect in the final result) : AI Theory Quiz (25%) + Mini-Project (30%) : Total 55%

**Q1.5 : What are the graded components for each category?**

A : Each graded category is subdivided into multiple graded components, as follows. Cross-check with the Course Calendar.

* Quizzes within LAMS : 5% : Divided across the LAMS sequences over the entire semester. Multiple attempts.
* Quizzes based on Lectures : 40% : Divided in two parts -- DS Quiz (15%, Recess Week) + AI (25%, Week 14).
* Lab Exercises (individual) : 25% : 5 Exercises (5% each for Exercises 3, 4, 5, 7, 8) as per the Course Calendar.
* Mini-Project (group-based) : 30% : Evaluation of Project (Video + Code), moderated by your Peer Assessments.

More details on each of the graded components are posted below, in each respective FAQ section. Please check.

**FAQs regarding LAMS**

**Q2.1 : Will there be one LAMS sequence posted every week?**

A : No. All DS LAMS sequences will be posted before Week 1, and all AI LAMS sequences will be posted before Week 8. Check the advised schedule to complete the LAMS sequences posted under each sequence respectively. Note that your Lab Exercises are coordinated with the LAMS material, and thus, you should complete the LAMS sequences required for a Lab Exercise before you attend that specific Lab Session. The advice posted on the sequences indicate that clearly. For example : You should complete the Module 1 LAMS (2 sequences) before you attend the Lab Session for Exercise 1. Each LAMS sequence should take you around 1 to 1.5 hours to complete, including the embedded quiz questions. In case you also want to check out the respective code (Notebooks), it will take you another 1 hour or so. All associated material like codes and videos are also available under the Content Section.

**Q2.2 : Why all the LAMS sequences are posted together, and not released per week?**

A : We are trying out this design the first time this semester. This is a 100% Continuous Assessment (CA) course, and thus, we want to keep you active throughout the semester with the LAMS sequences. But again, we believe that you should be able to take charge of your own learning, and maintain your own schedule to learn from the LAMS sequences and then apply the learning towards the respective Lab Exercises. Thus, it is your responsibility to learn as much or as little you want every week. Just make sure that you come to the Lab Sessions will prepared, especially for the graded ones, so that your marks are not compromised. This way, you get to set your own pace to learn the contents.

**Q2.3 : Will every LAMS sequence have graded embedded quiz?**

A : No. There will be some LAMS sequences that do not have any embedded quiz. There will also be some LAMS sequences with embedded questions to think about the content of the lecture, but not graded. This will be clearly stated for each LAMS, so that you know if a LAMS will contribute towards your grade.

**Q2.4 : Will the LAMS quizzes be single-try or multiple-try questions?**

A : The LAMS quizzes will have unlimited number of tries per question, so that you can try it over and over again to learn which answer is correct and why. As a by-product of this learning process, you should be able to score full marks for each LAMS sequence. Please do that. Thanks.

**Q2.5 : Will the LAMS embedded quizzes be available after the deadline?**

A : Yes, they will still be available. But you will NOT get any marks for attempts made after the deadline. We will consolidate the marks from the LAMS sequences after the deadline, and your attempts after that will not matter any more. For example, DS LAMS sequences have the deadline of Recess Week, that is, till your DS Theory Quiz. After the DS Theory Quiz, we will download your LAMS scores, and freeze those. So, please be mindful of the deadline posted under the respectice LAMS sequences.

**Q2.6 : Do we need to check the Lecture Slides or are the LAMS sufficient?**

A : You are strongly encouraged to check the Lecture Slides while going through the LAMS videos. It is a good practice to take notes too, as it will make your revision sessions easier (closer to the theory quizzes). Note that in some LAMS videos, we wrote on the slides while teaching, but the PDF lecture slides do not have those annotations. Thus, it is recommended that you keep a copy of the slides with you while going through the LAMS videos, so that you may take those notes as well. Same goes for the Review Sessions every week. It is also strongly encouraged that you try to read the relevant portions of the recommended textbooks, but this is not mandatory for your assessments.

**Q2.7 : Can I get an extension for the LAMS quizzes? I missed it because ...**

A : Really sorry. No extension for the LAMS embedded quizzes beyond the deadline, unless your case is truly exceptional. Feel free to send me an email if you think so, but please do note that in most common cases of missing the deadline, it will not be considered. Please try to finish the quizzes within the deadline, or much ahead of time, if possible, so that there is no last minute issue with submission, network outage or sync issues on NTULearn. Anyway, your deadlines are set to coincide with the theory quizzes, and under all practical circumstances, you should complete the LAMS quizzes during revision for your theory quizzes. So, I do not think you want to miss the deadlines. ;-)

**FAQs regarding Labs Sessions**

**Q3.1 : What is the schedule for the Lab Sessions? My NTU calendar says something different.**

A : Lab Sessions will happen every week (almost), throughout the semester, and you will generally complete hand-on programming exercises (and some related discussions) during the sessions. They will be held at the Labs. Please check our Course Calendar for the final lab schedule, irrespective of what is mentioned in your NTU calendar. For example : There is no Lab Session in Week 1 or Week 3(the CNY week) or Week 13 (last week of classes).

**Q3.2 : What will we actually do in the Lab Sessions?**

A : You will primarily solve the Exercise posted for that specific Lab Session. There should be a basic set of problems directly related to the LAMS sequences covered in the week before, and similar to the Notebooks posted for under Course Content. You can easily adapt those code to solve these basic exercise problems. If you face difficulty, talk to your Lab TA. There should also be some bonus problems, slightly harder than the basic ones. You should try to solve them on your own, or ask the Lab TA for help. The Lab TA may also conduct some discussions in the Lab regarding the exercise problems. Go beyond the problems, and try to learn new things related to the exercise on your own. Note that in some Lab Sessions, the exercise will be graded. The format for such graded exercises will be shared with you later during the course. You will need to solve the exercises at the Lab, and show your solution to the Lab TA.

**Q3.3 : Are there Lab Exercises and Quizzes for every Lab Session?**

A : Yes. But for most of the weeks, the Lab Exercise will not be graded. It will be graded for Exercises 3, 4, 5, 7 and 8 only. Plus, in some weeks (Week 9, 11), you may meet your Lab TA at the Lab Sessions just to get consultation on your Mini-Project. These lab sessions are not mandatory to attend, but are generally fruitful in case you want to discuss your efforts and line of thinking for the project with you TA. They will eventually grade your projects anyway. ;-)

**Q3.4 : Do we have to prepare anything before coming to the Labs?**

A : Yes. You should go through the respective LAMS sequences to learn the theoretical concepts first. Then you may go through the associated codes and videos under the Content Section to familiarize yourselves with the premise of the exercise. Even if you do not check the codes or videos beforehand, it is alright. There will be Preparation Codes posted for each Lab Exercise, which will help you solve the problems, and you may very well check the Preparation Codes while at the Lab. In case you also need to check the videos while at the Lab, it will help you if you can bring in headphones to listen to the videos (or related LAMS videos) without disturbing your friends.

**Q3.5 : How do I do preparation if the Lab Exercises and Preparation Codes are only posted the evening before my lab?**

A : The Preparation Codes are already posted for the whole semester, under "Course Content > Content Section : Data Science". They are called "Codes" within each Module, and there are 5 Notebooks in total -- 1 for M1, 2 for M2, 1 for M3 and 1 for M4. All extra videos going over the codes are also in the same location. Feel free to check them out a little earlier. Nothing new is posted in the Preparation Codes section of Lab Exercises anyway. Hope this helps.

**Q3.6 : How do I prepare for the Bonus Questions in the Lab Exercises?**

A : You can very well come to the lab, check the Preparation Codes, and complete the basic Exercises. These are not that hard, and they constitute the major component of your grades. The Bonus Problems will be more complicated in general, and may be based on some extra topics that your Lab TA may share with you during the Lab Session. You do not need any preparation for these, but may have to think on your feet to learn and apply the ideas within the Lab. No worries, the Bonus Problems will not carry too much weightage on your Lab Exercise marks. They are just to push you a little more in the direction of the topic you are learning. Enjoy them, and don't panic over the marks.

**Q3.7 : Where are the solutions for the Lab Exercises? I wanted to check my solutions for all the Problems.**

A : The solutions for each Lab Exercise will be posted at the same place where you got the Exercise Problem from, that is, under "Lab Sessions", after the respective week is over. Feel free to check out the solution to the exercise problems, and the notes alongwith. These are not the ONLY possible solutions for the problems. Feel free to use your own style ;-). Sometimes, we will not post solutions to the Bonus Problems, but may discuss them during our next Review Lecture. You may also discuss those with your Lab TA in the Lab. Note that your Lab TA will nudge you towards the right direction to solve the exercises, but will not disclose the solution to you at any stage.

**Q3.8 : Can I sit with my acquaintance at the Lab?**

A : Do follow the sitting order as specific by your Lab In-Charge. Generally, it should be according to your attendance sheet. You may feel free to talk to your friends about the exercise during the Lab. You may also feel free to discuss the Mini-Project with your respective team-mates, later on during the course. During project consultations, your sitting arrangement may be more flexible.

**Q3.9 : Will the Lab TAs teach new topics during the Lab Sessions?**

A : No. There will be no formal lecture or teaching during the Lab Sessions. The main course material is just the LAMS sequences, videos and respective slides. The labs are meant for hands-on programming, and the codes that you work on will be tested through the Lab Exercises. However, your Lab TAs may introduce you to some new material every week while they recap the main ideas behind the respective Lab Exercise. These will not be examinable.

**Q3.10 : Are the Instructors and Lab TAs available for consultation?**

A: Given the current size of the class (800+), it will be very hard for the Course Instructors to consult you on specific topics individually. We will do that in the Review Lectures anyway, and you are encouraged to bring your questions to the Course Instructors in those review sessions. The Lab TAs will be available for all other consultation matters during the Labs Sessions. They will be your first point of contact in terms of Lab Exercises and Mini-Project. Feel free to talk to them about the exercises and the project during the lab hours as much as possible. If you want to consult them beyond the lab hours, it is recommended that you make an appointment with them separately.

**Q3.11 : What if I can't complete the Exercise within the Lab Session?**

A : Generally, the Exercise should be solvable within the Lab Session. Ask your Lab TA for guidance and a little help, if needed. Please note that for all the graded exercises, the deadline for submission is within 2 hrs after the lab session is over. Do note that you need to submit your solution online (the submission details will be shared with you by your TA).The policy of "no more than 2 hours from the end of your lab session" will be consistent across all labs for consistency.

**Q3.12 : Do we need to make-up for a Lab Exercise that we miss?**

A : Yes. But you do not need to come to the Lab for this make-up. Just follow the policy set by your Lab TA. In case the lab exercise is not graded, you may simply send the solution to your TA to prove that you could complete it. In case the lab exercise if graded, your Lab TA will provide you with an alternative submission option, and you must submit your solution within a slightly extended deadline (depending on your specific case, but never more than 24 hours). This arrangement will be done by your Lab TA, and thus the submission mechanism (email, online, etc.) may be different for each lab. The policy of "no more than 24 hours" will be consistent across all labs for consistency. Talk to your Lab TA about it when you first meet them at the Lab.

**FAQs regarding the Theory Quizzes**

**Q4.1 : How many quizzes are there during the semester?**

A : There will be 2 theory quizzes during the semester, both based on lectures and related theory -- one for DS and one for AI. No questions will be asked on the Lab Exercises or Codes in these theory quizzes. Questions will be MCQs and other objective types (fill in the blanks, numeric, etc). The quizzes will be conducted using the Lockdown Browser at the Lab, physically, during the Recess Week (DS) and Week 14 (AI). You will have to come to the lab in person to take the quiz. The dates are marked in the Course Calendar, and the specific slots will be set closer to the dates. The entire batch will take the quizzes on the same day to ensure fairness across the class.

**Q4.2 : Why is DS Theory Quiz 15% while AI Theory Quiz is 25%?**

A : Ok. This is the DS vs AI distribution of grades : DS has 1 theory quiz (15%) + 3 lab exercises (15%) + 1 mini-project (30%), while AI has 1 theory quiz (25%) + 2 lab exercises (10%). Not entirely balanced, but close enough. ;-)

**Q4.3 : Are the theory quizzes open-book or closed-book?**

A : The theory quizzes based on the lectures (Recess Week and Week 14) are both closed-book. You will use Lockdown Browser to take the quizzes. No resources are allowed. You will be provided with rough papers to do some basic rough-work or calculations during the quiz. You will be allowed to bring basic resources like calculators, pens, pencils, etc. More details will be posted before the quizzes. Lab Exercises are of course open-resources.

**FAQs regarding Mini-Project**

**Q5.1 : When will the Mini-Project be released and how will we submit?**

A : The Mini-Project will be released before Week 6, and you will get Weeks 6 to 13 to work on it. The submission will be at the end of Week 14.

* You will have to submit a 10-minute Video Presentation on your project, plus the Code for the project. Submission is on NTULearn + GitHub.
* Your Lab TA will grade the Mini-Project based on the submitted Video and Codes. There will be no face-to-face Q&A or project presentations.
* There will be scope for Peer Assessment for the Mini-Project. You will assess your teammates on their contribution, and they will assess you.

More about the project grading details and the project topic will be released before Week 6. Talk to your Lab TAs after that to get more information.

**Q5.2 : Can we choose our own groups for the Mini-Project?**

A : Yes, you can. However, here are the constraints and rules regarding choosing your own Project group.

* The whole project team must be from the same Lab Group. You can't form teams across Labs/Indices. Wait till Add/Drop is over by Week 3.
* The minimum number of students in a group is 2 (TWO), and the maximum number is 3 (THREE). Sorry, you can't be a lone wolf this time!
* Generally, every team should be a 3-member team. You can form 2-member teams only if your Lab Group is not a clean multiple of 3. Please talk to your Lab TA to finalize the project group. They will collect the exact project team information from you in Week 8, after the Recess Week. So you have time to decide on your group.
* Even if it's tempting, you can't unfortunately team-up with your Lab TA or with the Course Instructors. We have our own project groups. ;-)

**Q5.3 : What if I can't find a team? What if I don't have any friend in my Lab?**

A : Please talk to the Lab TA in such a case. They will help you pair up with teams that have 2 (TWO) members or less. Teams are not supposed to have 2 (TWO) members unless it is required for the Lab Group where the total number of students is not a clean multiple of 3. By Week 8, you and/or your TA will surely be able to find you a project team if you can't get it by yourself. Don't worry. Note that team of 4 (FOUR) members will not be allowed in general.

**Q5.4 : Does the Mini-Project test on Data Science or Artificial Intelligence too?**

A : Hmm. Hard to say, given that there is an overlap of notion between the two. The Mini-Project will primarily test you on Data Science, but will also extend into the realm of Machine Learning and things that you will learn on your own to apply. However, the project will not test you on the main AI topics covered in the course, like search problems or game playing. If you consider Machine Learning to be more AI than DS, then sure, you have both in the project.

**Q5.5 : What if my teammates assess me unfairly for the project even if I contribute?**

A : It is mandatory for everyone to mention the exact reason for their assessments. Thus, if your teammates assess you lower than they assess themselves, they will have to justify clearly why they did so. This justification will be checked for each member of a team in case of any conflict. The teams with conflicting assessments within the teammates will also be approached by their Lab TAs (or the Coordinator) to clarify the matter before the grades are finalized.

**Miscellaneous**

**Q6.1 : What libraries/frameworks can we use for programming?**

A : During the lab exercises, you will not need anything beyond regular Anaconda (the latest Python release). However, for the Mini-Project, it is upto you. Feel free to use any library or framework of your choice. This is why we recommend you to install your own Data Science setup on your own computer. Note that your Lab Exercises that are graded must be completed on the Lab Computers, so that it runs on everyone's system. Talk to your Lab TA first if you are running a different setup than that in the Labs, so that they know how to grade your codes.

**Q6.2 : Apart from Python (as covered in ICT), what else should we know?**

A : This course expects you to know just Python, as covered in ICT. You will learn the rest of the material during the course. If you have not taken ICT (or were exempted), you may pick up basics of Python on your own. It will help you.

**Q6.3 : Can we email the Course Instructors and Lab TAs if we have questions?**

A : Sure. In terms of the LAMS and related Codes and Quizzes, please email the Course Instructors. In terms of the Lab Exercises and Mini-Project, please email the Lab TAs. This is recommended so that the course is neatly distributed across the Labs, and you get a timely response for your queries. Please try to bring your queries for the Course Instructors to the Review Lectures as much as possible; it may be hard to answer all your queries over email otherwise, given that we are running an overall class of 850+ students this time. I hope you will understand. We will still try to get back to you over email every time, and within a short enough span of time. Don't worry. :-)

**Q6.4 : Is there any mark for Class Participation, like asking good questions?**

A : No, sorry. There is no marks for class participation or asking good questions. All the graded components have been listed above. Please check carefully. However, your Lab TA will of course love to answer interesting questions. As most of your Lab TAs are PhD students working in Data Science, Machine Learning and AI related topics, you will also gain a lot from asking them more questions on these topics. Feel free to talk to them. They don't bite; I think. :-P

**Q6.5 : Will the Review Lectures be recorded?**

A : Yes. All review lectures (held on Fridays, 4:30 pm to 5:20 pm) will be recorded and published on NTULearn, under "Course Media". You can refer back to them for revision, especially before the theory quizzes.

**Q6.6 : What if my question is not here in the FAQs?**

A : Are you sure? Please check again carefully. If you still don't find it, send Dr Smitha K G (smitha@ntu.edu.sg) or Mr Ong Chinn Ann (chinann.ong@ntu.edu.sg) an email. It will be answered, and may also be added to this list of FAQs, if needed.