Spring 2023

CS 683: Software Project Management

Kamlesh Naik

Course Information:	
Course Code :	CS683_102
Course Name :	Software Project Management
Term :	Spring 2023
Class Meeting Time :	Thursdays, 06:00 pm – 08:50 pm
Teacher :	Prof. Kamlesh Naik (M.S. Computer Science)
Office Hours : (In Person)	Office No : GITC 4307 Wednesdays : 04:00 pm – 05:30 pm Thursdays : 04:00 pm – 05:30 pm
Email :	kamlesh.r.naik@njit.edu kamlesh.naik@njit.edu krn9@njit.edu
Phone No :	+1-2013495916

CS 683 Course Overview:

This course gives the student the necessary background and direct experience to allow him/her to manage software projects. The essence of software engineering is not only to introduce a valuable software product, but to do so economically and competitively. Like any engineering discipline, software engineering depends critically on managerial, economic and organizational considerations. Students learn by forming teams and manage a project and learn how to apply software management techniques, how to select the best fit technique for the project at hand, various software costing techniques, team organization and management, and various methods of software development.

Teacher's Availability and Response Time:

Please include CS683 in the Subject line of any email you send me and thus it will make it easier to manage my emails. I will abide with the same strategy in the emails I send you. I usually check my email regularly (after every 30 minutes). If I do not respond to your email within 60 minutes (except my class hours) during the weekdays, please send the email again. If an E-mail is sent to me after 12:00 am, you will receive the response to that E-mail after 8:00 am, the next day.

Learning Outcomes:

- Understand the five process groups of a software project and how to manage them
- Acquire direct, hands-on experience planning and managing a project
- Learn the Project Management Life Cycles (PMLC) of a software project and how to select the best fit for your project: traditional, Agile, Extreme, Emertxe
- Understand how to identify and manage the project stakeholders
- Understand business value and its role in project management
- Learn strategies to prevent and control distressed projects.

Course Materials and Announcements:

All material related to the course, including home-works, projects etc. will be posted on CANVAS. Announcements and notices will also be posted. CANVAS will be used for homework submissions. It is also mandatory for each team to submit a hard copy of their cumulative project document in the class every week. The Teaching Assistant will grade the submissions within a week. No E-mail submissions will be entertained. Homework submissions will not be entertained beyond the due date as the solutions will be posted online after the due date.

Textbook:

Effective Project Management Traditional, Agile, Extreme, 7th Edition, Robert K. Wysocki, Wiley, ISBN 978-1-118-72916-8.

Exam Rules:

The duration of each quiz will be 35-40 minutes. The duration of the mid-term/final exam will be 150 minutes. Exams will be in class for face-to-face classes. If the class runs in full distance learning mode, appropriate software tools will be used for exams taken off campus. I reserve the right to take penalty points off from students whose phones/electronic gadgets are found ringing during an exam.

Mid Term Exam Chapter Distribution:

Chapters:
Chapter 1 = What is a Project?
Chapter 2 = What is Project management?
Chapter 3 = What is Strategic Project Management?
Chapter 4 = What is a Collaborative Project Team?
Chapter 5 = What are Project Management Process Groups?
Chapter 6 = How to Scope a TPM Project?

Final Exam Chapter Distribution:

Chapters:
Chapter 6 = How to Scope a TPM project?
Chapter 7 = How to plan a TPM project?
Chapter 8 = How to launch a TPM project?
Chapter 9 = How to execute a TPM project?
Chapter 10 = How to close a TPM project?
Chapter 11 = Complexity and Uncertainty in the Project Landscape.

Grading Policy:

Criteria	% Distribution
Mid Term Exam:	20%
Final Exam:	25%
5 Quizzes:	20%
Home-works:	10%
Project:	25%
Total =	100%

Final Letter Grade is based on absolute grading with the following scale as a guide.

85%-100% = A grade
75%-84.99% = B+ grade
68%-74.99% = B grade
60%-67.99% = C+ grade
50%-59.99% = C grade
Below 50% = F grade (Fail)

Also note that most students typically get all the points on the Homework assignments. Thus, your class grade depends almost entirely on the exams.

Make-Up Exam policy:

Make Up Exam policy is based upon generally accepted policies of the NJIT CS Department and individual circumstances. Exam makeup *after* missing the exam will be only allowed in extreme cases with written proof, e.g., hospital stay, car accident with police report, and similar. Exam makeup due to travel may or may not be approved ahead of time and never after the trip. As above, trips related to an extreme emergency, e.g., death in the family, will be allowed with written proof. (death announcement in a newspaper or government death certificate with *official* English translation, if from a foreign country)

Simple rules:

- Turn off your cell-phones during class hours and examinations.
- I expect you to behave professionally.
- Speak to me about any issues you have related to the course.

Ethical Conduct:

Cheating during in-class quizzes/examinations/homework is, of course, illegal and immoral. The essential quality of the NJIT University Code on Academic Integrity is that each student shall demonstrate honesty and integrity in the completion of all assignments and in the participation of the learning process. Adherence to the University Code on Academic Integrity promotes the level of integrity required within the university and professional communities and assures students that their work is being judged fairly with the work of others.

You may "talk" about Homework assignments with each other. Where does talking end and cheating start? You may NOT copy exactly the same answers written by your friends. I will be checking for plagiarism, and I will have no mercy if I catch you. The student in question will failed out of the course. In addition, I may give questions from the homework assignments and quizzes on the midterm and final exam. If your answers on the exams are substantially wrong, even though you did the homework correctly I might question you about the homework and reduce your homework credit to zero, from whatever it was before.

Project/Presentation:

The class will be divided into 3-4 person teams. Students are free to choose their own team members. A topic has to be selected by each team.
Each team has to:

- Create Detailed Project Requirements
- Create Detailed Project Plan (Work Breakdown, Resource & Time Estimation, Project Network Diagram).
- Project Risk Assessment (Enumerate & Quantify Project Risk).
- Submit a detailed Project Management Document (Project Requirements, Project Plan, Risk Assessment.
- One Final Presentation (for ALL TEAMS) on “Project Management Document”.

You will need to work with your project team outside of lecture hours to prepare your presentations and submissions.

Homework Schedule:

Homework	Assigned Week	Submission Week
Homework 01	5th week	6th week
Homework 02	12th week	13th week

Quiz Schedule:

Quiz	Date Scheduled
Quiz 01	3rd week
Quiz 02	6th week
Quiz 03	10th week
Quiz 04	12th week
Quiz 05	13th week

Project Schedule:

Week	Submission
Week 1	Introduction to the Project Topics
Week 2	Team of 4 students and Project Topic
Week 3	Detailed Requirements Due (alpha version)
Week 4	Detailed Requirements Due (beta version)
Week 5	Detailed Requirements Due (final version)
Week 6	Work Breakdown Structure
Week 7	Resource and Time Estimation
Week 8	Project Network Diagram
Week 9	Critical Path
Week 10	Final Version
Week 11	Enumerate Project Risk
Week 12	Quantify Project Risk
Week 13	Final Version
Week 14	Buffer time for pending work
Week 15	Final Project Presentation

Exam Schedule:

Week	Examination
Week 8	Mid Term Examination (80 points)
Week 15	Final Examination (80 points)

Note:

In case of emergency wherein we are not able to cover all the destined chapters mentioned in the lecture schedule, it would be wise to exclude certain chapters and be within the expected time limits.

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