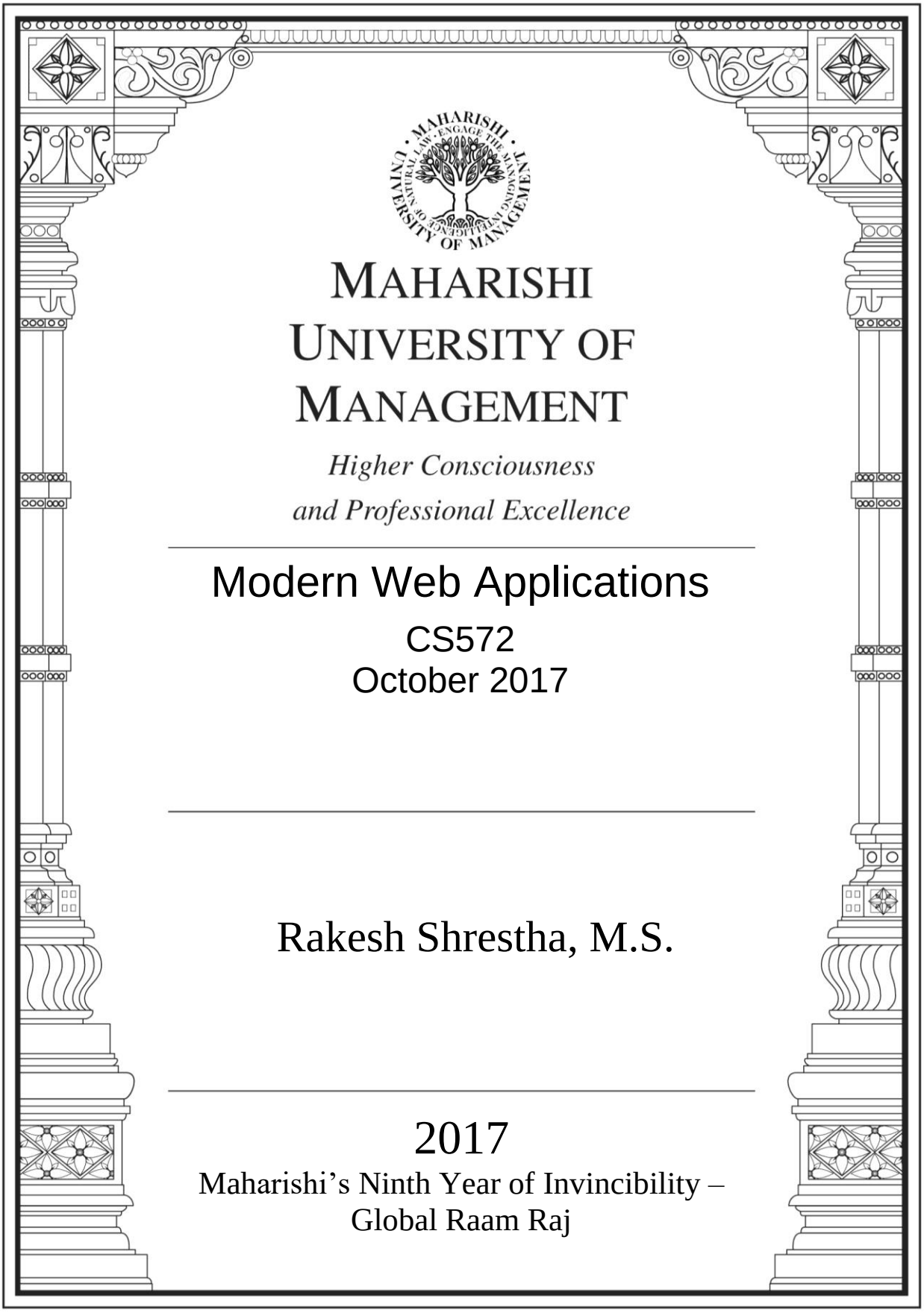

MAHARISHI UNIVERSITY OF MANAGEMENT

Higher Consciousness and Professional Excellence

Modern Web Applications

CS572

October 2017

Rakesh Shrestha, M.S.

2017

Maharishi's Ninth Year of Invincibility –
Global Raam Raj

Maharishi University of Management is an Equal Opportunity Institution.

CS572 – Modern Web Applications

Providing a user experience like that of a desktop application

October 2017

Course Overview

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Theme I: JavaScript on the server – Omnipresent intelligence						
Week 1	Server Side JavaScript	Cored Node.js	Node.js as web server and Express Setup	Express Middlewares	Mongo & Mongoose	Review
Theme II: Angular Basics – Creative Intelligence as basis for every manifestation						
Week 2	Mid-term	TypeScrip & Observable	Angular Architecture Overview	Property & Event Binding	Template Syntax	Directives, Pipes & NgModule
Theme III: Advanced Angular – Knowledge is structured in layers						
Week 3	Angular DI & LifeCycle Hooks	Angular Forms	Routing & Navigaition	HTTP Client	Review	Final Exam
Theme IV: Integrating all parts together - The Whole is Greater than the sum of its Parts						
Week 4	Project	Project	Project	Final Presentation		

CS572
Modern Web Applicaitons

October 2017

Rakesh Shrestha, M.S.

COURSE GOAL

This course provides a systematic introduction to developing modern web applicitons, providing a user experience like that of desktop applications.

Course Objectives

1. Gain deep undersandig of JavaScript on serverside, Node.js.

2. Learn to develop REST end points using Express.js framework.

3. Learn MongoDB as an example of NoSQL database for persistence.

4. Understand Single Page Application architecture and learn to devlop one using Angular framework

5. Learn underlying details of details of the languages and frameworks and also the best practies while using them.

Evaluation Criteria

Midterm Exam	40%
Final Exam	40%
Labs and Homeworks	2%
Final Project	18%

Attendance & Professional Etiquette <- Border Line Deciding Factor

* See morning mediation policy for extra credit.

Course Texts

TBA

Course Website

http://mumstudents.org/cs572/2017-10-RS/* (TBA)

Class Attendance

Attendance at all classes is required, because all elements of class — lectures, questions and answers, discussions, laboratory work — contribute to the learning process. Absences are usually excused only if you are sick in bed or have a family emergency.

If you must miss a class, please let your instructor know ahead of time. Call, send an email, or send a note with a friend. There is no such thing as a "personal day." If you have personal business to take care of, please schedule it for after class or during the days between blocks. At the same time, it may occasionally be necessary for you to miss a class (or part of a class) for some reason other than illness or family emergency. Please speak with the instructor beforehand, who will be open to considering your needs.

The first lesson of each course is the most important. Students are expected to be present from the first lesson onward. Any student not present on the first morning (except for such compelling reasons as illness or family emergency) may be asked to withdraw from the course. Unexcused absences may result in the student receiving a grade of NC (No Credit) for the whole course.

Morning Mediation Policy

Students need to attend 60% of the Dalby morning meditations over the aggregate of their regular computer science courses in order to graduate. Attendance during SCI and Forest Academy courses must be 80% or more.

Students may earn extra credit towards their final grade in a computer science course if they have outstanding attendance at the morning meditations for any specific computer science block.

- 70% and above: .5% EC (16 days in a standard block)
- 80% and above: 1% EC (18 days in a standard block)
- 90% and above: 1.5% EC (20 days in a standard block)

Details: For a given block 60% of 22 days would be 14 days or more. They can attend fewer than that some blocks if they make up the difference in other blocks. Attendance deficiencies can be remedied by participating in TM Retreats either on campus or in the field. A 3-day retreat will count for 15 meditations, 4 day for 20 meditations, 5 day for 25 meditations, etc.