

**UNIVERSITY OF CALIFORNIA**



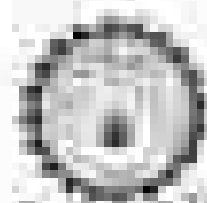
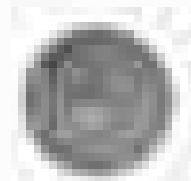
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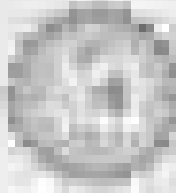
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**UNIVERSITY OF CALIFORNIA, DAVIS**  
**DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING**  
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**Professor**  
**Department of Civil and Environmental Engineering**

**Dr. James H. Watson**  
**Professor**  
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I. COURSE INFORMATION		II. COURSE OBJECTIVES		III. COURSE CONTENT		IV. COURSE EVALUATION	
COURSE NUMBER	COURSE TITLE	LEARNING OBJECTIVES	TOPICS TO BE COVERED	ASSIGNMENTS	EXAMINATIONS	GRADING	REMARKS
CE 101	Introduction to Civil Engineering	1. Understand the scope and history of civil engineering. 2. Identify the various branches of civil engineering.	History of civil engineering Branches of civil engineering	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 102	Statics	1. Apply the principles of statics to solve problems involving forces and moments. 2. Determine the internal forces in a structure.	Equilibrium, force systems, trusses, frames, beams	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 103	Strength of Materials	1. Calculate the stress and strain in a material under load. 2. Determine the deflection of a beam.	Stress, strain, stress-strain relationship, deflection of beams	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 104	Structural Analysis	1. Analyze the forces in a structure. 2. Determine the deflection of a structure.	Trusses, frames, beams, influence lines	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 105	Structural Design	1. Design a structure to carry a given load. 2. Select the appropriate materials and cross-sections.	Design of beams, columns, trusses, frames	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 106	Structural Dynamics	1. Calculate the dynamic response of a structure. 2. Determine the natural frequency of a structure.	Dynamic response, natural frequency, damping	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 107	Structural Reliability	1. Calculate the probability of failure of a structure. 2. Determine the reliability of a structure.	Probability, reliability, failure modes	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 108	Structural Optimization	1. Optimize the design of a structure. 2. Determine the minimum weight design of a structure.	Optimization, minimum weight design	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 109	Structural Control	1. Control the dynamic response of a structure. 2. Determine the control forces for a structure.	Control systems, dynamic response	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 110	Structural Health Monitoring	1. Monitor the health of a structure. 2. Determine the damage to a structure.	Health monitoring, damage detection	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 111	Structural Rehabilitation	1. Rehabilitate a damaged structure. 2. Determine the repair and replacement of damaged members.	Rehabilitation, repair and replacement	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 112	Structural Seismicity	1. Calculate the seismic response of a structure. 2. Determine the seismic hazard for a structure.	Seismic response, seismic hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 113	Structural Wind Engineering	1. Calculate the wind load on a structure. 2. Determine the wind hazard for a structure.	Wind load, wind hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 114	Structural Fire Engineering	1. Calculate the fire load on a structure. 2. Determine the fire hazard for a structure.	Fire load, fire hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 115	Structural Blast Engineering	1. Calculate the blast load on a structure. 2. Determine the blast hazard for a structure.	Blast load, blast hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 116	Structural Corrosion	1. Calculate the corrosion rate of a structure. 2. Determine the corrosion hazard for a structure.	Corrosion rate, corrosion hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 117	Structural Fatigue	1. Calculate the fatigue life of a structure. 2. Determine the fatigue hazard for a structure.	Fatigue life, fatigue hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 118	Structural Acoustic	1. Calculate the acoustic response of a structure. 2. Determine the acoustic hazard for a structure.	Acoustic response, acoustic hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 119	Structural Vibration	1. Calculate the vibration response of a structure. 2. Determine the vibration hazard for a structure.	Vibration response, vibration hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 120	Structural Nonlinear Analysis	1. Calculate the nonlinear response of a structure. 2. Determine the nonlinear hazard for a structure.	Nonlinear response, nonlinear hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 121	Structural Numerical Analysis	1. Calculate the numerical response of a structure. 2. Determine the numerical hazard for a structure.	Numerical response, numerical hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 122	Structural Experimental Analysis	1. Calculate the experimental response of a structure. 2. Determine the experimental hazard for a structure.	Experimental response, experimental hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 123	Structural Modeling	1. Calculate the modeling response of a structure. 2. Determine the modeling hazard for a structure.	Modeling response, modeling hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 124	Structural Simulation	1. Calculate the simulation response of a structure. 2. Determine the simulation hazard for a structure.	Simulation response, simulation hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 125	Structural Analysis and Design	1. Calculate the analysis and design response of a structure. 2. Determine the analysis and design hazard for a structure.	Analysis and design response, analysis and design hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 126	Structural Design and Construction	1. Calculate the design and construction response of a structure. 2. Determine the design and construction hazard for a structure.	Design and construction response, design and construction hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 127	Structural Maintenance and Repair	1. Calculate the maintenance and repair response of a structure. 2. Determine the maintenance and repair hazard for a structure.	Maintenance and repair response, maintenance and repair hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 128	Structural Rehabilitation and Renovation	1. Calculate the rehabilitation and renovation response of a structure. 2. Determine the rehabilitation and renovation hazard for a structure.	Rehabilitation and renovation response, rehabilitation and renovation hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 129	Structural Preservation and Conservation	1. Calculate the preservation and conservation response of a structure. 2. Determine the preservation and conservation hazard for a structure.	Preservation and conservation response, preservation and conservation hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	
CE 130	Structural Restoration and Reconstruction	1. Calculate the restoration and reconstruction response of a structure. 2. Determine the restoration and reconstruction hazard for a structure.	Restoration and reconstruction response, restoration and reconstruction hazard	Readings, lectures, and discussions	Midterm exam, final exam	A, B, C, D, F	

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Dr. James H. Watson	Dr. James H. Watson	Dr. James H. Watson	Dr. James H. Watson
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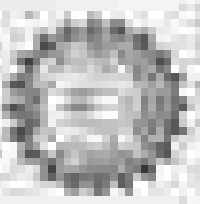
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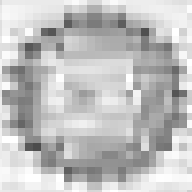
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		Male	Female	Other	
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**STATE OF TEXAS**  
**COMMISSION ON EQUAL OPPORTUNITY**  
**REPORT ON THE PROGRESS OF THE COMMISSION**  
**FOR THE YEAR ENDING 2020**

**STATE OF TEXAS**  
**COMMISSION ON EQUAL OPPORTUNITY**  
**REPORT ON THE PROGRESS OF THE COMMISSION**  
**FOR THE YEAR ENDING 2020**

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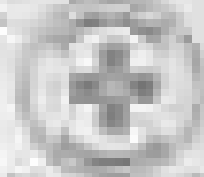
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**धरम चन्द्रावरुण वर्मा**

पता: \_\_\_\_\_  
फोन: \_\_\_\_\_

\_\_\_\_\_

आम कोर्ट द्वारा सुनवाई के पश्चात् यह फार्म न्यूनतम  
संश्लेषण पर पूर्ण है।

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फार्म न्यूनतम संश्लेषण पर पूर्ण है। प्रमाणित करने के लिए  
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फार्म न्यूनतम संश्लेषण पर पूर्ण है।

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WATER SUPPLY SYSTEM PLAN

DATE: 10/15/2010

PROJECT: [Illegible] LOCATION: [Illegible]  
OWNER: [Illegible] ENGINEER: [Illegible]

DESIGNER: [Illegible] CONTRACTOR: [Illegible]  
SCALE: [Illegible] SHEET NO.: [Illegible]

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	CONCRETE				
2	STEEL				
3	PIPE				
4	VALVE				
5	MANHOLE				
6	WELL				
7	PUMP				
8	ELECTRICAL				
9	LABOR				
10	PERMITS				
11	CONTINGENCY				
12	TOTAL				

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1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS AND BRIDGES, SEVENTH EDITION, WITH 2002 SUPPLEMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES.
5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND EROSION CONTROL MEASURES THROUGHOUT THE PROJECT.



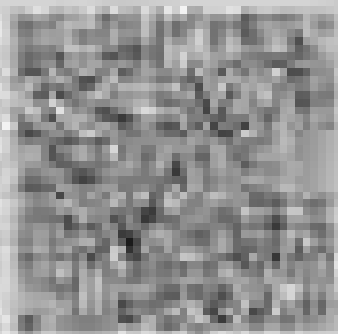


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GOVERNMENT OF INDIA



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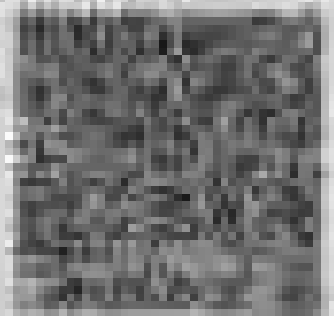


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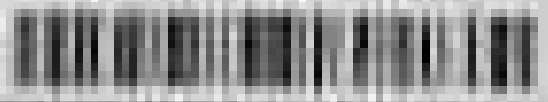
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B.Sc. (Hons) in Information Systems  
DIPLOMA IN INFORMATION SYSTEMS

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**Mr. [Name]** **Bachelor of Science (Honours) in Information Systems**

First Class Honours  
GPA: 3.85  
Date of Award: 15/12/2010

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