

Government College of Engineering, Karad				
Second Year (Sem –III) M. Tech. Civil Engineering (Construction Management)				
CM :2301 Dissertation Phase I				
Teaching Scheme		Examination Scheme		
Practical	14 Hrs/week	MSE	-	
Tutorials	-	ISE	100	
Total Credits	07	ESE	100	
Course Outcomes (CO): Students will able to		Duration of ESE	-	
1. Identify self-learning topics.				
2. Explore the survey literature and contact resource persons for the selected topic of research.				
3. Develop oral and written communication skills to present and defend their work in front of technically qualified audience.				
Course Guidelines		CO	Hours	
The Project Work should preferably be a problem with research potential and should involve scientific research, design, generation/collecion and analysis of data, determining solution and must preferably bring out the individual contribution. It should be based on the area in which the candidate has undertaken the dissertation work as per the common instructions for all branches of M. Tech. The examination shall consist of the preparation of report consisting of a detailed problem statement and a literature review. The preliminary results (if available) of the problem may also be discussed in the report. The work has to be presented in front of the examiners panel set by Head and PG coordinator. The candidate has to be in regular contact with his guide and the topic of dissertation must be mutually decided by the guide and student.		CO1 CO2 CO3	(14)	
Syllabus Contents: The dissertation / project topic should be selected / chosen to ensure the satisfaction of the urgent need to establish a direct link between education, national development and productivity and thus reduce the gap between the world of work and the world of study. The dissertation should have the following: • Relevance to social needs of society • Relevance to value addition to existing facilities in the institute • Relevance to industry need • Problems of national importance • Research and development in various domain				
The student should complete the following: • Literature survey Problem Definition • Motivation for study and Objectives • Preliminary design / feasibility / modular approaches • Report and presentation				
Guidelines for Dissertation Phase – I: • As per the AICTE directives, the dissertation is a yearlong activity, to be carried outand evaluated in two phases i.e. Phase – I: July to December and Phase – II: January to June. • The dissertation may be carried out preferably in-house i.e. department’s laboratories and centers OR in industry allotted through department’s T & P coordinator. • After multiple interactions with guide and based on comprehensive literature survey, the student shall identify the domain and define dissertation objectives. The referred literature should preferably include Springer/Science Direct. In case of Industry sponsored projects,				



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	the relevant application notes, while papers, product catalogues should be referred and reported. - Student is expected to detail out specifications, methodology, resources required, critical issues involved in design and implementation and phase wise work distribution, and submit the proposal within a month from the date of registration. - Phase – I deliverables: A document report comprising of summary of literature survey, detailed objectives, project specifications, paper, part results, a record of continuous progress. - Phase – I evaluation: A committee comprising of guides of respective specialization shall assess the progress/performance of the student based on report, presentation and Q & A. In case of unsatisfactory performance, committee may recommend repeating the phase-I work. - List of Submission: Dissertation report should be prepared using Latex
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Mapping of COs and Pos:

CO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	2	3	3	2	1	3
CO2	2	2	2	2	2	2
CO3	1	2	2	3	3	1

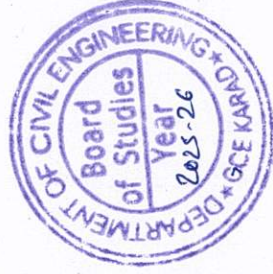
1: Slight(Low)

2: Moderate(Medium)

3: Substantial(High)

Assessment Pattern:

Skill Level (as per Rubric Sheet)	Project Topic	Literature Study	Methodology	Study Area	Result Analysis	Report Writing	Presentation Skill	Grammar Check	Plagiarism Check	Avg	Skill Level (as per CAS Sheet)
ISE	10	15	15	10	15	10	20	5	-	100	ISE
ESE	10	15	15	10	15	10	20	5	-	100	ESE



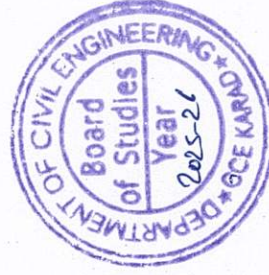
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Government College of Engineering, Karad				
Second Year (Sem –IV) M. Tech. Civil Engineering (Construction Management)				
CM2302: MOOCs / OPEN COURSE				
Teaching Scheme		Examination Scheme		
Practical	-	ISE		-
Total Credits	3	ESE		100
		TOTAL		-
Course Outcomes (CO): Student will be able to				
1.	Identify self-learning topics.			
2.	Explore the survey literature and contact resource persons for the selected topic of research.			
3.	Develop oral and written communication skills to present and defend their work in front of technically qualified			
4	Presentation skill ability.			
		Course Contents		CO
		Online courses available on digital platform like MOOCs/ NPTEL etc during the academic semester will be reviewed and listed by departmental faculty board before start of every semester. Suitable course for registered candidate will be recommended by Guide and Programme Head considering skill sets and knowledge required for dissertation work of the individual candidate (from the list). It shall have minimum 8-12 week duration, peer graded assignment and examination to award grade by online course offering agency. The report of course completed with copy of Grade Report shall be submitted to the examination section. In case online course is not available, departmental committee will specially design syllabus for course under self-learning mode and guide will conduct end semester examination to award the grade.		CO1, CO2, CO3, CO4

Mapping of COs and POs

PO → CO ↓	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6
CO 1	2	3	3	2	1	3
CO 2	2	2	2	2	2	2
CO 3	1	2	2	3	3	1
CO 4	2	3	1	2	1	3




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Government College of Engineering, Karad				
Second Year (Sem –IV) M. Tech. Civil Engineering (Construction Management)				
CM 2401 Dissertation Phase II				
Teaching Scheme		Examination Scheme		
Lectures	32 Hrs/week	MSE	-	
Tutorials	-	ISE	100	
Total Credits	16	ESE	200	
		Duration of ESE -		
Course Outcomes (CO): Students will able to				
After completion of course, students would be able to:				
1. Identify self-learning topics.				
2. Explore the survey literature and contact resource persons for the selected topic of research.				
3. Develop oral and written communication skills to present and defend their work in front of technically qualified audience.				
Course Guidelines			CO	Hours
It is a continuation of Project work started in semester III. He/She has to submit the report in prescribed format and also present a seminar. The dissertation should be presented in standard format as provided by the department. The candidate has to prepare a detailed project report consisting of introduction of the problem, problem statement, literature review, objectives of the work, methodology (experimental set up or numerical details as the case may be) of solution and results and discussion. The report must bring out the conclusions of the work and future scope for the study. . The work has to be presented in front of the examiners panel consisting of an approved external examiner, an internal examiner and a guide, co-guide etc. as decided by the Head and PG coordinator. The Candidate has to be in regular contact with his guide.			CO1 CO2 CO3	(32)

Mapping of COs and Pos:

CO	PO1	PO2	PO3	PO4	PO5	PO6
CO1	2	3	3	2	1	3
CO2	2	2	2	2	2	2
CO3	1	2	2	3	3	1

1: Slight(Low) 2: Moderate(Medium) 3: Substantial(High)

Assessment Pattern:

Skill Level (as per Rubric Sheet)	Project Topic	Literature Study	Methodology	Study Area	Result Analysis	Report Writing	Presentation Skill	Grammar Check	Plagiarism Check	Avg
ISE	10	10	15	10	15	10	10	10	10	100
ESE	20	30	30	15	25	30	30	10	10	200



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