Course Title: Construction Project Management

Course Code: 15ECVC206

L-T-P: 3-0-0

Credits: 3

Contact Hours: 3Hrs / Week

ISA Marks: 50 ESA Marks: 50 Total Marks: 100

Teaching Hours: 40 Hrs Examination Duration: 3 Hrs

Unit I

1. Introduction to Construction Project Management

Phases of construction project, importance of construction and construction industry, Indian construction Industry, Construction project management and its relevance, stakeholders of a construction project.

O4 hrs

2. Drawings and Specifications

Types of Drawings-Architectural and Structural, Study of Scales Used, sequence of dimensioning, dimension lines and figures, Importance of Specifications, General specifications of 1st, 2nd, 3rd and 4th Class building, Detailed specifications of a typical building. Scope definition using drawings and specifications. **05 hrs**

3. Work Breakdown Structure

Concept of WBS, Common usage of terms, Preparing a WBS, Factors to be considered, WBS measurement considerations, Challenges to be considered, WBS level of Detail, WBS life-cycle considerations, Project risk and the WBS, Resource planning and management with WBS, Problems – Detailed WBS of a residential building.

06 hrs

Unit II

4. Project Management through Networks

Introduction, project feasibility, planning methods of projects—Objectives, planning stages. Scheduling, Bar charts and mile stone charts. Introduction, Terms & definitions, Elements of network, types of network, drawing the network. CPM — Event times, Activity times, floats, critical activity and critical path. Problems. PERT — Introduction, time estimates, expected time, earliest expected time, latest allowable occurrence time, slack, critical path. Probability of completing the project. Problems. Updating of network. Problems. Contraction of network. Problems. Resource Allocation. Problems (Resource smoothening and resource levelling).

5. Construction Safety Management

Introduction, evolution of safety, Accident causation theories, unsafe conditions and acts, health and safety act and regulations, role of safety personal, causes of accidents, principles of safety, safety and health management system.

06 hrs

Unit III

6. Construction Equipment

Introduction, standard and special equipment, factor for selecting equipment, cost of owning and operating, economic life of an equipment. Earth moving equipment (Bulldozers, Scrapers, Loaders and Excavators). Hoisting equipment, concrete mixer and plants, conveyors and rollers, trenching machines, equipment for highway construction. Live projects for course project.

08 hrs

Text Books

1. Kumar Neeraj Jha, Construction Project Management: Theory and Practice, 2nd Edition, Pearson Publications, 2015.

Reference Books:

- 1. Robert. L Peurifoy and William B. Ledbetter, Construction planning and Equipment& methods, Tata McGraw Hill Publication, 3rd edition, 2010.
- 2. Verma Mahesh, Construction planning and Management, Metropolitan Book co. Delhi, 1982.



Course Feedback

(To be filled by each Student at the time	of Course Co	mpletio	n)		
Please give us your views on this Course so that the course quality can be impossible constructive in your comments.					
	C	ourse Te	acher G. K	_	
Department/SchoolClv1 Name of the Teacher	Prol- Guno	noth.	k -	•	
Course TitleCPM	Course cod	de:	Semeste	r IN	
a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear					
The course contents met with your expectation					
The course work load was manageable					
The lecture sequence was well planned to meet learning outcomes					
The contents were illustrated with adequate examples					
The course exposed you to new knowledge and practice					
The level of the course was moderate					
b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly					
The teaching aids were effectively used		_			
The course material handed out was adequate		/			
Were objectives of the course realized?	5				
The overall environment in the class was conducive to learning					
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Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful					
Recommended reading Books etc. were relevant and appropriate					
The provision of learning resources in the library was adequate and appropriate					
d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The method of assessment were reasonable					-
Feedback on ISA assessment was timely				-	
Feedback on ISA assessment was helpful					
Suggestions for improvement:					
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Course Feedback

(To be filled by each Student at the time of Course Completion)

Dear Students, Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments. Course Teacher G. K Department/School____(171) Name of the Teacher__ Guzonath. Kamph Sir Course Title _____ CPM _____ Course code: _____Semester __ Strongly Strongly Agree Uncertain Disagree a. The design of the course Disagree agree The course objectives were clear The course contents met with your expectation The course work load was manageable The lecture sequence was well planned to meet learning outcomes The contents were illustrated with adequate examples The course exposed you to new knowledge and practice The level of the course was moderate Strongly Uncertain Disagree Strongly Agree b. The conduct of the course Disagree agree The lectures were easy to understand & ideas and concepts presented clearly The teaching aids were effectively used The course material handed out was adequate Were objectives of the course realized? The overall environment in the class was conducive to learning Disagree Strongly Uncertain Agree Strongly c. Learning Resources Disagree agree Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful Recommended reading Books etc. were relevant and appropriate The provision of learning resources in the library was adequate and appropriate Strongly Strongly Agree Uncertain Disagree d. Assessment Disagree agree The method of assessment were reasonable Feedback on ISA assessment was timely Feedback on ISA assessment was helpful Suggestions for improvement: Overall rating of the course: (tick mark the appropriate) 90% -100% 80% - 90% 70% - 80% 60% - 70% 50% - 60% Below 50%

Date: 2G/\$2019



(To be filled by each Student at the time of Course Completion)

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Course Feedback

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Course Feedback

(To be filled by each Student at the time of Course Completion)

Dear Students,

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KLE Society's
B V Bhoomaraddi College of
Engineering & Technology, Hubli

Alumni Survey Form

Dear proud alumni,

The following are the list of skills and competencies that engineering graduates should have. We seek your participation in the Alumni Survey conducted to know your satisfaction with the *level of competency* you have achieved as a result of your education at the Institution and also able to practice the same. For each question, indicate your answer with symbol "A" in the appropriate column/box. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

Regards, Head of the department/School

S.No	Competencies	Level of Competency.				
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfier	
	Engineering knowledge:	<u> </u>		L		
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems					
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	Ability to identify, characterize and formulate a solution plan for solving engineering problems				t en transit de la companya de la co	
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3	Design/Development of Solutions:				the second desired the second of the second	
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process					
T	Conduct investigations of complex problems:					
٠	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems					
	Ability to critically analyse and interpret data to reach valid conclusions				***************************************	
	Modern tool usage:	1				
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems		2			

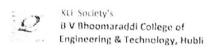




KLE Society's B V Bhoomaraddi College of Engineering & Technology, Hubli

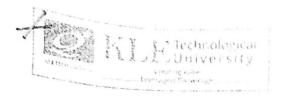
Alumni Survey Form The engineer and society: Demonstrate an understanding of professional engineering regulations, legislation and standards Environment and sustainability: Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development Ethics: 8 Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice Individual and team work: 9 Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings 10 Communication: Ability to comprehend technical literature and prepare effective reports and design documents Demonstrate competence in listening, speaking, presentation Project management and finance: 11 Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments Life-long learning: 12 Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change Modeling and Design 13 An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoifs involved in design choices. Construction of software system 14 An ability to apply design and development principles in the construction of software systems of varying complexity.





Alumni Survey Form

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How would you rate your overall satisfaction with your preparation to become an	engineer?
Not Satisfied	y Satisfied
Poor OK Good Ver	ry Good 1
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Name of the company:	Batch: 2015-19
Correspondence Address: Maitri Galli, Jamkhano	\mathcal{L}
Signature:	





KLT Society's B V Bhoomaraddi College of Engineering & Technology, Hubli

Alumni Survey Form

Dear proud alumni,

The following are the list of skills and competencies that engineering graduates should have. We seek your participation in the Alumni Survey conducted to know your satisfaction with the *level of competency* you have achieved as a result of your education at the Institution and also able to practice the same. For each question, indicate your answer with symbol "A" in the appropriate column/box. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

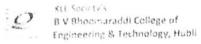
Regards,

Head of the department/School

S.No	Competencies	Level of Competency,					
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	Ability to critically analyse and interpret data to reach valid conclusions						
5	Modern tool usage:						
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3	Ethics:	ankananan makamparan aras atau mari a kalami andara makanan makan kalami	A Company of the Comp
	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice		
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	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings		
10	Communication:		and become considerate and the suppression of the s
	Ability to comprehend technical literature and prepare effective reports and design documents		
	Demonstrate competence in listening, speaking, and presentation		
11	Project management and finance:		
	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments		
12	Life-long learning:		
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change		
13	Modeling and Design	process and any series of the companion	
	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoifs involved in design choices.		
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	An ability to apply design and development principles in the construction of software systems of varying complexity.		





Alumni Survey Form

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B V Bhoomaraddi College of Engineering & Technology, Hubli

Alumni Survey Form

The following are the list of skills and competencies that engineering graduates should have. We seek your participation in the Alumni Survey conducted to know your satisfaction with the level of competency you have achieved as a result of your education at the Institution and also able to practice the same. For each question, indicate your answer with symbol "A" in the appropriate column/box. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

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	Ability to execute a solution process and analyse results						
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KLE Society's B V Bhoomaraddi College of Engineering & Technology, Hubli

Alumni Survey Form

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KLE Society's B V Bhoomaraddi College of Engineering & Technology, Hubli

Alumni Survey Form

Indicate your Answer with symbol "A" in the appropriate box. How would you rate your overall satisfaction with your preparation to become an engineer? **Nery Satisfied** Satisfied Little Satisfied Not Satisfied quality academic program? 2) In general, the department has provided a Very Good Good OK Poor Branch: Name: Navun A Mundas Batch: navenmendes 1000 gm ilicom 2015-2019 mail id: Name of the company: Agribee Structures put-ltd Correspondence Address: Signature:





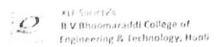
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Alumni Survey Form

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12	Life-long learning:			
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change			A
13	Modeling and Design			
	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.			A
14	Construction of software system			
	An ability to apply design and development principles in the construction of software systems of varying complexity.			A





Alumni Survey Form

Indicate your Answer with symbol "A" in the appropriate box. How would you rate your overall satisfaction with your preparation to become an engineer? Not Satisfied Little Satisfied Satisfied Very Satisfied 2) In general, the department has provided a quality academic program? Poor OK Good Very Good RAJALAXMI BHANDINADDAR Name: Branch: rajalaxmi bhandi waddar @g mail.com Batch: 2015-2019 Name of the company: Correspondence Address: , Signature:





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B V Bhoomaraddi College of Engineering & Technology, Hubii

Alumni Survey Form

Dear proud alumni,

The following are the list of skills and competencies that engineering graduates should have. We seek your participation in the Alumni Survey conducted to know your satisfaction with the level of competency you have achieved as a result of your education at the Institution and also able to practice the same. For each question, indicate your answer with symbol "A" in the appropriate column/box. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared.

Regards,

S.No	of the department/School Competencies		Level of Co	mpetency.					
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	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems								
2	Problem analysis:				Beauty and the second s				
	Ability to identify, characterize and formulate a solution plan for solving engineering problems				/				
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	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process				/				
D	Conduct investigations of complex problems:								
	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems				✓				
	Ability to critically analyse and interpret data to reach valid conclusions				/				
5	Modern tool usage:				The state of the s				
The state of the s	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				✓				



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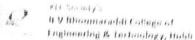
KLF Society's B V Bhoomaraddi College of Engineering & Technology, Hubli

Alumni Survey Form

		The second secon	
6	The engineer and society:		1
	Demonstrate an understanding of professional engineering regulations, legislation and standards		
7	Environment and sustainability:		
	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development		
8	Ethics:		
	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice		V
9	Individual and team work:		
	Ability to function effectively as an Individual, and as a member or leader in diverse teams, and in multidisciplinary settings		
10	Communication:	and the second s	
	Ability to comprehend technical literature and prepare effective reports and design documents		~
	Demonstrate competence in listening, speaking, and presentation		/
11	Project management and finance:	The state of the s	
	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments		
12	Life-long learning:		
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change		
13	Modeling and Design		
	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.		/
14	Construction of software system		
	An ability to apply design and development principles in the construction of software systems of varying complexity.		/



1 0001



Alumni Survey Form

Indicate your Answer with symbol "A" in the appropriate box 1) How would you rate your overall satisfaction with your preparation to become an engineer? Not Satisfied Little Satisfied **Satisfied** 2) In general, the department has provided a quality academic program? Name: PRITHVI M MEDLERI Branch: civil a mail id: Prithumedleri @ gmail. com Batch: 2019 Name of the company: Correspondence Address: PRITHUI M MEDLERI DO MAHADEVAPPA C MEDLERI DANESHWART NAGAR, 12+ CROSS HAVERT - Seulo Signature:



Dear Sir,

We seek your kind participation in this process of collecting feedback about our graduates serving in your organization. Your inputs will be helping us to make required modifications in the existing curriculum, pedagogy to enhance the competencies of the graduating engineers. For each question, indicate your opinion with a tick mark in the appropriate column. All individual responses will be kept confidential. Only statistically analyzed results from the entire population will be shared. Regards,

Head of the department/School

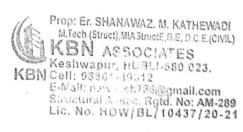
Please rank the following qualities: 5 = excellent, 4 = high, 3 = good, 2 = average, 1 = low, NA= Not Applicable

S.No	Qualities	1	2	3	4	5	NA
1	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems						
2	Ability to identify, characterize and formulate a solution plan for solving engineering problems				V	•	COMPANIES AND ASSURED
3	Ability to execute a solution process and analyze results		1		portion to had to have	1	-
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process				,	~	PTV TO THE RESTORE STATE OF THE PERSON AND THE PERS
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems			1			
6	Abdity to critically analyse and interpret data to reach valid conclusions						
7	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems			7			
8	Demonstrate an understanding of professional engineering regulations, legislation and standards					1	
9	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development					V	
10	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice						



i wyson ta	Qualities	1	2	3	4		
11	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings				1	5	NA
12	Ability to comprehend technical literature and prepare effective reports and design documents				-		
13	Demonstrate competence in listening, speaking, and presentation				V		
14	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments						
15	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change						
16	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that design choices.						MAIL CONTINUES TO
17	An ability to apply design and development principles in the construction of software systems of varying complexity.						and the state of the

Name of the organization: KBN ASSOCIATES
Address: Keshwapur Hubli
Name of the contact person: G. Sharonaz. M. K
e-mail id: now a3Sh786@g Mail.com Signature: \$300





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Head of the decestance is	
Head of the department/School	
Civil Engineering	
The state of the s	CONTRACTOR OF THE PARTY OF THE
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might 3 good, 2 average, 1 a k	ow, NA" Not Applicable

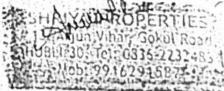
S.No.	Qualities	1	2	3	4	5	NA
1	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems	0	C	7	-	D	
2	Ability to identify, characterize and formulate a solution plan for solving engineering problems	O	О	D	2	0	
3	Ability to execute a solution process and analyze results	C	0	D.	0	2	
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process	(2)	12	_	0	Li	
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems		*	9	G		
5	Ability to critically analyse and interpret data to reach valid conclusions	1	0	a	1	***	
7	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems	0		1			
1	Demonstrate an understanding of professional engineering regulations, legislation and standards	0			15		Carle Cherry
	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development	0		72			
0	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice			G	18	1	



11	Employers Feedbac	11: 1	12 51 4.1	2777		PHERM	NA
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12	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary	1 2	12		۵.	b	
4	Ability to						
13		fira ::	i e i	lia:	2		
	Demonstrate competence in listening speaking and			71:11:			111
		0	-0	9:::	-	1.0	
	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.		5	Q	سيد	_ ti	
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	i n		- I	ь		
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	An ability to apply design and development principles in the construction of software systems of varying complexity	-	3		13	حدا	7

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Name of the contact person: Pga	
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		•	
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1	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems	П	а	V	0	0	
2	Ability to identify, characterize and formulate a solution plan for solving engineering problems	0	0	O	V	0	
3	Ability to execute a solution process and analyze results	0	0	0	0	6	
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process	а	a	0	6	а	
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems	C	U	D	V	2	
6	Ability to critically analyse and interpret data to reach valid conclusions	С	~	ā	0	0	
7	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems	0	2	Э	0	۵	
8	Demonstrate an understanding of professional engineering regulations, legislation and standards	Э	0	0	а	استا	
9	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development	0	D	a	0	D	
10	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	0	g	a	1	0	



	Qualities	1	2	3	4	5	NA
11	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	П	0	TE	O		
12	Ability to comprehend technical literature and prepare effective reports and design documents	0	9	Q	=		
13	Demonstrate competence in listening, speaking, and presentation	1.	0		1	8	
14	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments	П	ū		V		
15	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	U	17)	G	3/	u	
16	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.	1)	Þ	0	Ü		
17	An ability to apply design and development principles in the construction of software systems of varying complexity.	0	L		0		

Space for o	comments:
	- responsibilities T. P. at almost Dear to a most of Command from (Kannifaka)
Name of the Address:	e organization: Infrastructure Denedopment Corporation (kanadata) Cimited (i Deck) Madhavnagen Extension Bangalore.
	e contact person: Ashok S.
e-mail id:	ideckinto aidse com signaturé guys



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4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process	0			0		
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6	Ability to critically analyse and interpret data to reach valid conclusions	0		P	0	0	
7	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems	0	Q		۵	9	
8	Demonstrate an understanding of professional engineering regulations, legislation and standards		0		0		
9	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development		а	а	0	4	
10	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	٥	0	П	9	σ,	



	Qualities	1	2	3	4	5	NA
11	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	13	3	F)	/	0	
12	Ability to comprehend technical literature and prepare effective reports and design documents	D	ū	g	D	2	
13	Demonstrate competence in listening, speaking, and presentation	0	0		0	CI .	
14	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments	П	ū	а	U		
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17	An ability to apply design and development principles in the construction of software systems of varying complexity.	O	Li	1.1	D	1	
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No.	Qualities	1	2	3	4	5	NA
5	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems	С	0	0	a	1	
	Ability to identify, characterize and formulate a solution plan for solving engineering problems	0	ο.	-0.	~	0	-
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	Demonstrate an understanding of professional engineering regulations, legislation and standards	0	0	G	0.		
•	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	0	В	0	0	a	
10	Apility to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	0	12	0	0	5	



	Qualities	1	2	3	4	5	NA
11	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	C.	0	1.	~	u	
12	Ability to comprehend technical literature and prepare effective reports and design documents	0	D	0	Ľ)		
13	Demonstrate competence in listening, speaking, and presentation	7.1	D	LT.		į į	
14	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments	а	a	(1	V	n	
15	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	tu.	п		Ĺ3	Li	
16	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.	(1	O	n	~		
17	An ability to apply design and development principles in the construction of software systems of varying complexity.	a	ы	11	DI .		

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Name of the organiza	ation: Shob	ha Limited	Sazjapun.	- Martha halli Qulex Bellandur Post
Address:	Bamagal	one -5	60103	
Name of the contact	person:	Jana A.	N.	08046464500
e-mail id: Webfel				aus.
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Creating Value
_ Leveraging Knowledge _____ School of Civil Engineering

CIRCULAR

Pre BOS meeting is held on March 28, 2018 at 3 30 PM to discuss the changes required in schemes and syllabus for the upcoming BOS meeting.

Faculty feedback is a prominent part of the meeting so all faculty are requested to bring in the changes they have planned in their respective courses.

I/II semester – Engineering Mechanics Course for the Batch 2018-22

III/IV semester courses for the Batch 2017-21

V/VI semester courses for the Batch 2016-20

VII/VIII semester courses for the Batch 2015-19

BOS Coordinator

- 1. Dr. S.S. Bhavikatti, Professor, KLE Tech.
- 2. Dr. M.V. Chitawadagi, Professor, KLE Tech.
- 3. Prof. G.C. Bellad, Associate Professor, KLE Tech.
- 4. Dr. M.R. Patil, Associate Professor, KLE Tech.
- 5. Prof. S.A. Hullur, Associate Professor, KLE Tech.
- 6. Prof. L.R. Basavaraja, Associate Professor, KLE Tech.

7. Dr. L.J. Pol, Professor, KLE Tech.

8. Dr. V.B. Patil, Professor, KLE Tech.

9. Prof. V.P. Patil, Associate Professor, KLE Tech.

10. Dr. S.S. Dyavanal, Professor, KLE Tech.

11. Dr. S.S. Honnanagoudar, Associate Professor, KLE Tech.

12. Dr. A.M. Hunashyal, Associate Professor, KLE Tech.

13. Prof. Vijaykumar S.K, Associate Professor, KLE Tech

14. Prof. Gurunath Kampli, Asst. Professor, KLE Tech.

15. Prof. Prema Malali, Asst. Professor, KLE Tech.

16. Prof. Khalida M, Asst. Professor, KLE Tech. Kh

HOD



KLE Technological University

Creating Value Leveraging Knowledge _

School of Civil Engineering

17. Prof. Nikita K., Asst. Professor, KLE Tech.

18. Prof. Chaitanya Akkannavar, Asst. Professor, KLE Tech. /

19. Prof. Fatheali Shilar, Asst. Professor, KLE Tech.

20. Prof. ShashwathNanjannavar, Asst. Professor, KLE Tech.

21. Prof. Shivaraj Halyal, Asst. Professor, KLE Tech.

22. Prof. Basanagouda Patil, Asst. Professor, KLE Tech.

23. Prof. Roopa Kuri, Asst. Professor, KLE Tech.



eraging Knowledge

School of Civil Engineering

Minutes of Meeting - Pre BoS

28/03/2018

UG Courses

- Pre BOS meeting for the academic year 2018 was held on 28th March, 2018 at 3 30 PM at HOD Chamber. The following points were discussed by the faculty and were approved by the HOD to be included in the syllabus.
- The first-year engineering mechanics course syllabus for both the mechanical and the electrical streams was reviewed and no changes were suggested (Batch 2018-22).
- Discussions on introduction of latest technological advances in the field of surveying were held.
 It was concluded that chapter dedicated to remote sensing and the related technology must be introduced in Surveying course in III semester.
- 4. Students feedback on the introduction of working stress method still being used in construction projects was discussed. Structural Analysis 1 course syllabus was reviewed to see if working stress method can be introduced in it. Faculty were of the opinion that students should at the minimum know the introduction and the theory of working stress method, though it is an obsolete method.

PG Courses

- The scheme and syllabus were reviewed for the 4 semesters of MTech Structural Engineering.
 A new course titled Advanced Material Science was proposed to be introduced.
- 1. Dr. S.S. Bhavikatti, Professor, KLE Tech.
- 2. Dr. M.V. Chitawadagi, Professor, KLE Tech.
- 3. Prof. G.C. Bellad, Associate Professor, KLE Tech.
- 4. Dr. M.R. Patil, Associate Professor, KLE Tech.
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- 10. Dr. S.S. Dyavanal, Professor, KLE Tech.
- 11. Dr. S.S. Honnanagoudar, Associate Professor, KLE Tech.
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KLE Technological University

Creating Value Leveraging Knowledge School of Civil Engineering

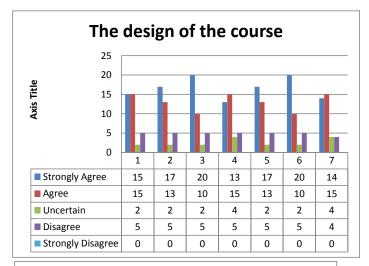
- 13. Prof. Vijaykumar S.K, Associate Professor, KLE Tech.
- 14. Prof. Gurunath Kampli, Asst. Professor, KLE Tech.
- 15. Prof. Prema Malali, Asst. Professor, KLE Tech.
- 16. Prof. Khalida M, Asst. Professor, KLE Tech. 🌾
- 17. Prof. Nikita K., Asst. Professor, KLE Tech.
- 18. Prof. Chaitanya Akkannavar, Asst. Professor, KLE Tech.
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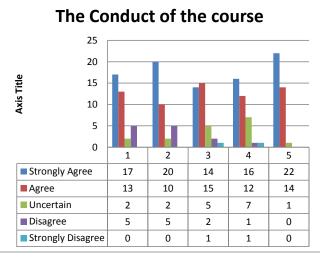
Course Name: Construction Project Management				em: IV	Year: 20	18-19 Even
		Strongly				Strongly
	a. The Design of the course	Agree	Agree	Uncertain	Disagree	Disagree
1	The course objectives were clear	28	9	0	0	1
	The course contents met with your					
2	expectation	26	6	5	1	0
3	The course work load was manageable	30	5	3	0	0
	The lecture sequence was well planned to					
4	meet learning outcomes	33	1	3	1	0
	The contents were illustrated with adequate					
5	examples	35	3	0	0	0
	The course exposed you to new knowledge					
6	and practice	24	9	3	1	1
7	The level of the course was moderate	26	7	2	2	1

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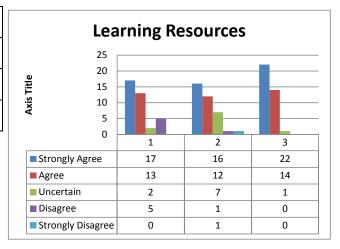
SUM of Avg 38 34.57143 90.97744

		Strongly				Strongly
	b. The conduct of the course	Agree	Agree	Uncertain	Disagree	Disagree
	The conduct were easy to understand & ideas					
1	and concepts presented clearly	25	9	3	1	0
2	The teaching aids were effective used	24	10	1	3	0
3	The curse material handed out was adequate	21	9	6	1	1
4	Were objectives of the course realized?	29	4	2	2	1
	The overall environment in the class was					
5	conductive to learning	28	5	3	1	1
		25.4	7.4	3	1.6	0.6
		38	32.8	86.31579		





		Strongly				Strongly
	c. Learning Resources	Agree	Agree	Uncertain	Disagree	Disagree
1	Learning materials (Lesson plans, course Notes					
	etc) were relevent & useful	21	9	6	1	1
	Recommended reading Books etc. were					
2	relevent & appropriate	30	7	1	0	0
	The provision of learning resources in the					
3	library was adequate & appropriate	24	8	4	1	1
		25	8	3.666667	0.666667	0.666667
		38	33	86.84211		



		Strongly	_			Strongly
	d. Assessment	Agree	Agree	Uncertain	Disagree	Disagree
1	The methos of assessment were reasonable	28	6	3	1	0
2	Feedback on CIE assessment was timely	29	8	1	0	0
3	Feedback on CIE assessment was helpful	23	9	3	2	1

26.66667 7.666667 2.333333 1 0.333333

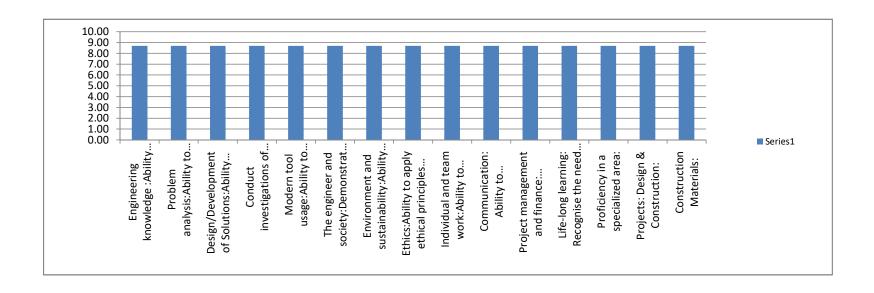
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Assessment									
25									
a 20									
∄ 15		_							
Axis Title									
4 5									
U	1	2	3						
■ Strongly Agree	13	17	20						
■ Agree	15	13	10						
■ Uncertain	4	2	2						
Disagree	5	5	5						
■ Strongly Disagree	0	0	0						

COMMENTS:

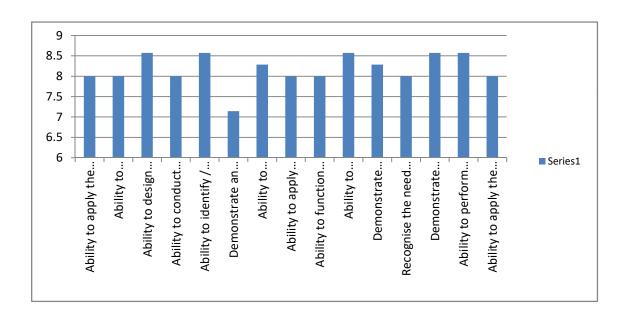
1. PPT was prepared related to few concepts and same was shared to students

Competencies Level of Comp		Level of Competency	chool:Civil Emgineerin	Alumni Fee	dback Analysis (2018-2019)	
Sl Numb	oer	Completely dissatisfied	Dissatisfied	Satisfied	Completely satisfied	
		0	2.5	7.5	10	Total
1	Engineering knowled	0	0	28	25	53
2	Problem analysis:Abi	0	0	28	25	53
3	Design/Development	0	0	28	25	53
4	Conduct investigation	0	0	28	25	53
5	Modern tool usage:A	0	0	28	25	53
6	The engineer and soc	0	0	28	25	53
7	Environment and s		0	28	25	53
8	Ethics: Ability to ap	0	0	28	25	53
9	Individual and team v	0	0	28	25	53
10	Communication: Abi	0	0	28	25	53
11	Project management	0	0	28	25	53
12	Life-long learning: R	0	0	28	25	53
13	Proficiency in a spec	0	0	28	25	53
14	Projects: Design & C	0	0	28	25	53
15	Construction Materi	0	0	28	25	53
		Not Satisfied	Little Satisfied	Satisfied	Very Satisfied	0
16	How would you rat	0	3	33	17	53
		Poor	Ok	Good	Very Good	0
17	In general, the depart	0	2	26	25	53



School: Civil Engineering Employers feedback analysis (2018-2019)

	Ochool. Olvir Engineering Employers reeuback analysis (2010-2013)							
	Qualities	Level of Competency						Total
SI Number		1 (Low)	(Averag	3 (Good)	(Very Good	5 (excellent)	NA	
		2	4	6	8	10	0	
1	Ability to ap	0	0	2	3	2	0	7
2	Ability to ider	0	0	2	3	2	0	7
3	Ability to desi	0	0	1	3	3	0	7
4	Ability to con	0	0	2	3	2	0	7
5	Ability to ider	0	0	1	3	3	0	7
6	Demonstrate	0	2	1	2	2	0	7
7	Ability to und	0	0	2	2	3	0	7
8	Ability to app	0	0	1	5	1	0	7
9	Ability to fund	0	0	2	3	2	0	7
10	Ability to com	0	0	1	3	3	0	7
11	Demonstrate	0	0	1	4	2	0	7
12	Recognise the	0	0	2	3	2	0	7
13	Demonstrate	0	0	1	3	3	0	7
14	Ability to perf	0	0	1	3	3	0	7
15	Ability to app	0	0	2	3	2	0	7



School of Civil Engineering Course Design Review Action Taken Report of the University on the Feedback of Stakeholders

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iii. Action Taken Report Approved in Board of Studies dated 7/04/2018 and implemented with effect from 2018-19

Observations/ Recommendations based on feedback	POs impacted
Employers Feedback:	PO 1
According to data collected from the employers, improvement was needed in courses related to engineering	PO 5
regulations (PO 6).	PO 6
Teachers Feedback (Pre-BoS MoM):	
i. Latest surveying techniques and tools must be introduced in surveying course.	
ii. The open-ended experiments of Building Engineering Drawing and Survey Practice I must be combined to	
bring in a holistic approach to problem solving.	
Students Feedback:	
iii. Working stress method is still utilized for quick calculations on site in steel projects.	
Alumni Feedback:	
NIL	

Actions taken	Course Revised/ Added	BoS approved Date
Combined open-ended problem in the 2 labs – Building Engineering Drawing and Survey Practice I is introduced.	Survey Practice I (17ECVP201)	7/4/2018
Introduction of Chapter "Introduction to Photogrammetry and Remote Sensing" in Surveying course.	Surveying (15ECVC202)	7/4/2018
In order to sensitize the students about the regulations in quality control, a new chapter Inspection and Quality Control is introduced in Construction Project Management.	Construction Project Management (15ECVC206)	7/4/2018
Introduction to working stress method is introduced in Chapter 1 of Design of Steel Structures.	Design of Steel Structures (15ECVC401)	7/4/2018



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BOS (Board of Studies) Minutes of Meeting - 2018-19 Academic Year

Agenda -

To review and approve the schemes and syllabus of First year (2018-19) Batch, Second year (2017-18) Batch, Third year (2016-17) Batch and Forth year (2015-16) Batch

Members Attended -

- 1. Dr. S.S. Quadri, HoD, School of Civil & Environmental Engineering, KLE Tech. Univ.
- 2. Dr. G.R. Dodagoudar, Professor, Dept. of Civil Engineering, IIT Madras
- 3. Mr. M. Narayan, CADA, Malaprabha and Ghataprabha Projects, Circle, Belagavi
- 4. Dr. SatishAnnigeri, Registrar (Evaluation), VTU Belagavi
- 5. Mr. B.S.Sudharshan, STAC Consultants, Bengaluru
- 6. Capt. R.R. Doddihal, Chief Engineer, BMRCL, Bengaluru
- 7. Dr. S.S. Bhavikatti, Professor, KLE Tech.
- 8. Dr. M.V. Chitawadagi, Professor, KLE Tech.
- 9. Prof. G.C. Bellad, Associate Professor, KLE Tech.
- 10. Dr. M.R. Patil, Associate Professor, KLE Tech.
- 11. Prof. S.A. Hullur, Associate Professor, KLE Tech.
- 12. Prof. L.R. Basavaraja, Associate Professor, KLE Tech.
- 13. Dr. L.J. Pol, Professor, KLE Tech.
- 14. Dr. V.B. Patil, Professor, KLE Tech.
- 15. Prof. V.P. Patil, Associate Professor, KLE Tech.
- 16. Dr. S.S. Dyavanal, Professor, KLE Tech.
- 17. Dr. S.S. Honnanagoudar, Associate Professor, KLE Tech.
- 18. Dr. A.M. Hunashyal, Associate Professor, KLE Tech.
- 19. Prof. Vijaykumar S.K, Associate Professor, KLE Tech.

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- 20. Prof. Gurunath Kampli, Asst. Professor, KLE Tech.
- 21. Prof. Prema Malali, Asst. Professor, KLE Tech.
- 22. Prof. Khalida M, Asst. Professor, KLE Tech.
- 23. Prof. Nikita K., Asst. Professor, KLE Tech.
- 24. Prof. Chaitanya Akkannavar, Asst. Professor, KLE Tech.
- 25. Prof. Fatheali Shilar, Asst. Professor, KLE Tech.
- 26. Prof. ShashwathNanjannavar, Asst. Professor, KLE Tech.
- 27. Prof. Shivaraj Halyal, Asst. Professor, KLE Tech.
- 28. Prof. Basanagouda Patil, Asst. Professor, KLE Tech.
- 29. Prof. Roopa Kuri, Asst. Professor, KLE Tech.

Minutes of Meeting (MoM) -

- 1. 3rdBoS meetings MOM was read and approved.
- 2. Syllabus of I/II Semester's, of Engineering Mechanics, KLE Tech. 18-22, batch was reviewed and approved.
- 3. Scheme and syllabus of III/IV Semester's, KLE Tech. 17-21, batch was reviewed and approved.
- 4. Changes made in Survey Practice-I (17ECVP201) and Building engineering drawing (17ECVP202) were approved.
- Scheme and syllabus of V/VI Semester's, KLE Tech. 16-20, batch was reviewed and minor changes were suggested in Transportation Engineering (15ECVC304). The overall Scheme and syllabus were approved.
- 6. Consistency deformation method and flexibility matrix methods were introduced as 2 new chapters in Structural Analysis II.
- 7. Traffic features Design and Traffic management system chapters were introduced in Traffic Engineering (15ECVE302).

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- 8. Approval of syllabus of VII/VIII Semester's, KLE Tech. 15-19, batch was reviewed and minor changes were suggested in Design of Steel structures (15ECVC401). The overall Scheme and syllabus was approved.
- 9. It was suggested that all text books, reference books and code books must be updated to the latest versions.

M.Tech. (Struct. Engg.)

 Scheme and syllabus of M.Tech Structures of KLE Tech., 18-20 batch was reviewed, and approved. The syllabus of new laboratory course "Structural Simulation laboratory" and new course "Advance material science" was reviewed and approved.

HOD

School of Civil Engineering Professor & Head School of Civil Engineering KLE Technology Universit

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Course Title: Construction Project Management Course Code:15ECVC206 L-T-P: 3-0-0 Credits: 3 Contact Hours: 3Hrs / Week

ISA Marks: 50 ESA Marks: 50 Total Marks: 100

Teaching Hours: 40 Hrs Examination Duration: 3 Hrs

Unit 1

1. Introduction to Construction Project Management

Phases of construction project, importance of construction and construction industry, Indian construction Industry, Construction project management and its relevance, stakeholders of a construction project.

2. Drawings and Specifications

Types of Drawings-Architectural and Structural, Study of Scales Used, sequence of dimensioning, dimension lines and figures, Importance of Specifications, General specifications detailed specifications of a typical building. Scope definition using drawings and specifications.

05 hrs

3. Work Breakdown Structure

Concept of WBS, Common usage of terms, Preparing a WBS, Factors to be considered, WBS measurement considerations, Challenges to be considered, WBS level of Detail, WBS life-cycle considerations, Project risk and the WBS, Resource planning and management with WBS, Problems – Detailed WBS of a residential building.

06 hrs

Unit II

4. Project Management through Networks

Introduction, project feasibility, planning methods of projects—Objectives, planning stages. Scheduling, Bar charts and mile stone charts. Introduction, Terms & definitions, Elements of network, types of network, drawing the network. CPM – Event times, Activity times, floats, critical activity and critical path. Problems. PERT – Introduction, time estimates, expected time, earliest expected time, latest allowable occurrence time, slack, critical path. Probability of completing the project. Problems. Updating of network. Problems. Contraction of network. Problems.

08 hrs

5. Construction Safety Management

Introduction, evolution of safety, Accident causation theories, unsafe conditions and acts, health and safety act and regulations, role of safety personal, causes of accidents, principles of safety, safety and health management system.

05 hrs

6. Inspection and Quality Control

Introduction, Objectives, principles and function, Inspector's role, Technical services required for field inspection, Laboratories required, Quality control, Factors affecting the quality of conformance, Quality control methods.

04 hrs

Unit III

7. Construction Equipment

Introduction, standard and special equipment, factor for selecting equipment, cost of owning and operating, economic life of an equipment. Earth moving equipment (Bulldozers, Scrapers, Loaders and Excavators). Hoisting equipment, concrete mixer and plants, conveyors and rollers, trenching machines, equipment for highway construction. Live projects for course project.

 $08 \ hrs$

Text Books

1. Kumar Neeraj Jha, Construction Project Management: Theory and Practice, 2ed., Edition, Pearson Publications, 2015.

Reference Books:

- 1. Robert. L Peurifoy and William B. Ledbetter, Construction planning and Equipment& methods, Tata McGraw Hill Pvt. Ltd, New Delhi, 3ed., 2010.
- 2. Verma Mahesh, Construction planning and Management, Metropolitan Book Co. Delhi, 1982.