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. **04 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). **11 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. **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.

KLE Technological University
Creating Value
Leveraging knowledge

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 Civil Name of the Teacher Prof. Gunanath. K

Course Title CPM Course code: _____ Semester IV

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?	✓				
The overall environment in the class was conducive to learning	✓				

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
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:

Overall rating of the course: (✓ tick mark the appropriate)

90% -100% ✓ 80% - 90% ☐ 70% - 80% ☐ 60% - 70% ☐ 50% - 60% ☐ Below 50% ☐

Jacoby
Signature

Date 26/4/2019

KLE Technological University

Creating Value
Leveraging Knowledge

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 Civil Name of the Teacher Gurunath. Kamph Sir

Course Title CPM Course code: _____ Semester IV

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?		✓			
The overall environment in the class was conducive to learning	✓				

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
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:

Overall rating of the course: (✓ tick mark the appropriate)

90% -100% [✓] 80% - 90% [ ] 70% - 80% [ ] 60% - 70% [ ] 50% - 60% [ ] Below 50% [ ]

Date: 26/9/2019

Signature

KLE Technological University
Creating Value
Leveraging Knowledge

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 Civil Name of the Teacher Dr. Gunanath. K

Course Title CPM Course code: _____ Semester 4th

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?			✓		
The overall environment in the class was conducive to learning	✓				

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
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:

Overall rating of the course: (✓ tick mark the appropriate)

90% -100% ☐ 80% - 90% ✓ 70% - 80% ☐ 60% - 70% ☐ 50% - 60% ☐ Below 50% ☐

Signature

Date: 21/5/2019

KLE Technological University
Creating Value
Leveraging Knowledge

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 Civil Name of the Teacher Gurunath. K

Course Title CPM Course code: _____ Semester IV

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?		✓			
The overall environment in the class was conducive to learning			✓		

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
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:

Overall rating of the course: (✓ tick mark the appropriate)

90% -100% ☐ 80% - 90% ☐ 70% - 80% ☐ 60% - 70% ☐ 50% - 60% ☐ Below 50% ☐

Signature

Date: 26/4/2019

KLE Technological University

Creating Value
Leveraging Knowledge

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 Gr. K

Department/School Civil Name of the Teacher Prof. Gururath Kamplı

Course Title C PM Course code: _____ Semester IV

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?		✓			
The overall environment in the class was conducive to learning	✓				

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
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:

Overall rating of the course: (✓ tick mark the appropriate)

90% -100% ☐ 80% - 90% ✓ 70% - 80% ☐ 60% - 70% ☐ 50% - 60% ☐ Below 50% ☐

Lathaje
Signature

Date: 26/4/2019

KLE Technological University

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 Satisfied
1	**Engineering knowledge :**				
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems			✓	
2	**Problem analysis:**				
	Ability to identify, characterize and formulate a solution plan for solving engineering problems			✓	
	Ability to execute a solution process and analyse results			✓	
3	**Design/Development of Solutions:**				
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process			✓	
4	**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:**				
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems			✓	

Alumni Survey Form

6	**The engineer and society:**				
	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			✓	
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:**				
	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**				
	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.			✓	

KLE Technological University

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

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 ☐ Very Satisfied ☑

2) In general, the department has provided a _____ quality academic program?

Poor ☐ OK ☐ Good ☐ Very Good ☑

Name: Siddu. S. Teli	Branch: civil
Email id: Siddusteli08353@gmail.com	Batch: 2015 - 19
Name of the company: —	
Correspondence Address: Maitri galli; Jamkhandi	
Signature:	

KLE Technological University

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 Satisfied
1	**Engineering knowledge :**				
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems				✓
2	**Problem analysis:**				
	Ability to identify, characterize and formulate a solution plan for solving engineering problems				✓
	Ability to execute a solution process and analyse results				✓
3	**Design/Development of Solutions:**				
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process				✓
4	**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:**				
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				✓

KLE Technological University

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

Alumni Survey Form

6	**The engineer and society:**				
	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				✓
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:**				
	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**				
	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.				✓

KLE Technological University

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

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 ☐ Very Satisfied ☑

2) In general, the department has provided a _____ quality academic program?

Poor ☐ OK ☐ Good ☐ Very Good ☑

Name: Shivanand. Chandragutti	Branch: Civil
mail id: Shivuchandragutti@gmail.com	Batch: 'B' div 2016-19
Name of the company: —	
Correspondence Address: At: Layadagundi - 587203 Po: Guledagudda. dist: Bagalkot.	
Signature: Chandragutti	

KLE Technological University

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 Satisfied
1	**Engineering knowledge :**				
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems				✓
2	**Problem analysis:**				
	Ability to identify, characterize and formulate a solution plan for solving engineering problems				✓
	Ability to execute a solution process and analyse results				✓
3	**Design/Development of Solutions:**				
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process				✓
4	**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:**				
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				✓

Alumni Survey Form

6	**The engineer and society:**				
	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				✓
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:**				
	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**				
	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.			✓	

KLE Technological University

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

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 ☑ Very Satisfied ☐

2) In general, the department has provided a _____ quality academic program?

Poor ☐ OK ☐ Good ☐ Very Good ☑

Name: Naveen A Mundas	Branch: Civil
mail id: naveenmundas100@gmail.com	Batch: 2015-2019
Name of the company: Aarbee Structures Pvt. ltd	
Correspondence Address:	
Signature:	

KLE Technological University

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 Satisfied
1	**Engineering knowledge :**				
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems				A
2	**Problem analysis:**				
	Ability to identify, characterize and formulate a solution plan for solving engineering problems			A	
	Ability to execute a solution process and analyse results			A	
3	**Design/Development of Solutions:**				
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process				A
4	**Conduct investigations of complex problems:**				
	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems				A
	Ability to critically analyse and interpret data to reach valid conclusions				A
5	**Modern tool usage:**				
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				A

Alumni Survey Form

6	**The engineer and society:**				
	Demonstrate an understanding of professional engineering regulations, legislation and standards				A
7	**Environment and sustainability:**				A
	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				A
8	**Ethics:**				
	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice				A
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				A
10	**Communication:**				
	Ability to comprehend technical literature and prepare effective reports and design documents				A
	Demonstrate competence in listening, speaking, and presentation				A
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				A
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

KLE Technological University

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

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 [A] Very Satisfied [ ]

2) In general, the department has provided a _____ quality academic program?

Poor [ ] OK [ ] Good [ ] Very Good [A]

Name: RAJALAXMI BHANDIWADDAR	Branch: CIVIL
Email id: rajalaxmibhandiwaddar@gmail.com	Batch: 2015-2019
Name of the company: —	
Correspondence Address:	
Signature:	

KLE Technological University

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 Satisfied
1	**Engineering knowledge :**				
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems				✓
2	**Problem analysis:**				
	Ability to identify, characterize and formulate a solution plan for solving engineering problems				✓
	Ability to execute a solution process and analyse results				✓
3	**Design/Development of Solutions:**				
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process				✓
4	**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:**				
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				✓

Alumni Survey Form

6	**The engineer and society:**				
	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				✓
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:**				
	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**				
	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.				✓

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 [✓] Very Satisfied [ ]

2) In general, the department has provided a _____ quality academic program?

Poor [ ] OK [ ] Good [✓] Very Good [ ]

Name: PRITHVI M MEDLERI	Branch: Civil
E-mail id: prithvimedleri@gmail.com	Batch: 2019
Name of the company:	
Correspondence Address: PRITHVI M MEDLERI D/o MAHADEVAPPA C MEDLERI DANESHWARI NAGAR, 1st Cross HAVERI - 581110.	
Signature: Prithvi Medleri.	

KLE Technological University

Employers Feedback form

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				✓		
3	Ability to execute a solution process and analyze results					✓	
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process					✓	
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems			✓			
6	Ability 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					✓	
8	Demonstrate an understanding of professional engineering regulations, legislation and standards					✓	
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					✓	
10	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice			✓			

KLE Technological University

Creating Value
Leveraging Knowledge

Employers Feedback form

	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					✓	
12	Ability to comprehend technical literature and prepare effective reports and design documents				✓		
13	Demonstrate competence in listening, speaking, and presentation					✓	
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 demonstrates comprehension of the tradeoffs involved in design choices.					✓	
17	An ability to apply design and development principles in the construction of software systems of varying complexity.					✓	

Space for comments:

Name of the organization: KBN ASSOCIATES

Address: Keshwapur Hubli

Name of the contact person: Er. Shanawaz. M. K

e-mail id: nawazsh786@gmail.com | Signature:

Prop: Er. SHANAWAZ. M. KATHEWADI
M.Tech (Struct),MIAStructE,B.E, D.C.E.(CIVIL)
KBN ASSOCIATES
Keshwapur, HUBLI-580 023.
Cell: 9886[illegible]9512
E-Mail: nawazsh786@gmail.com
Structural Assoc. Rgtd. No: AM-289
Lic. No. HDW/BL/10437/20-21

KLE Technological University

Employers Feedback form

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

Civil Engineering

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				✓		
3	Ability to execute a solution process and analyze results					✓	
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process			✓			
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems					✓	
6	Ability 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			✓			
8	Demonstrate an understanding of professional engineering regulations, legislation and standards			✓			
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				✓		
10	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice				✓		

KLE Technological University

Employers Feedback form

	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			✓			
12	Ability to comprehend technical literature and prepare effective reports and design documents				✓		
13	Demonstrate competence in listening, speaking, and presentation				✓		
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 demonstrates comprehension of the tradeoffs involved in design choices.				✓		
17	An ability to apply design and development principles in the construction of software systems of varying complexity					✓	

Space for comments:

Name of the organization: Shriya Properties

Address: Arjun Vihar, Gokul Road, Hubballi-30

Name of the contact person: Prakash Chavan

e-mail id:

Signature:

SHRIYA PROPERTIES
Arjun Vihar, Gokul Road
HUBLI-30. Tel: 0836-2232485
Mob: 9916291587

KLE Technological University

Employers Feedback form

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	☐	☐	☐	✓	☐	
3	Ability to execute a solution process and analyze results	☐	☐	☐	☐	✓	
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process	☐	☐	☐	✓	☐	
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems	☐	☐	☐	✓	☐	
6	Ability 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	☐	☐	☐	✓	☐	
8	Demonstrate an understanding of professional engineering regulations, legislation and standards	☐	☐	☐	☐	✓	
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	☐	☐	☐	✓	☐	
10	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	☐	☐	☐	✓	☐	

KLE Technological University

Employers Feedback form

	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					✓	
12	Ability to comprehend technical literature and prepare effective reports and design documents					✓	
13	Demonstrate competence in listening, speaking, and presentation				✓		
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 demonstrates comprehension of the tradeoffs involved in design choices.					✓	
17	An ability to apply design and development principles in the construction of software systems of varying complexity.					✓	

Space for comments:

Name of the organization: Infrastructure Development Corporation (Karnataka) Limited (iDeck)

Address: Madhavnagar Extension Bangalore.

Name of the contact person: Ashok S.

e-mail id: ideckinfo@idfc.com

Signature:

KLE Technological University

Employers Feedback form

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	☐	☐	☐	✓	☐	
3	Ability to execute a solution process and analyze results	☐	☐	☐	☐	✓	
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process	☐	☐	☐	✓	☐	
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems	☐	☐	☐	☐	✓	
6	Ability 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	☐	☐	☐	☐	✓	
8	Demonstrate an understanding of professional engineering regulations, legislation and standards	☐	☐	☐	✓	☐	
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	☐	☐	☐	☐	✓	
10	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	☐	☐	☐	✓	☐	

KLE Technological University

Employers Feedback form

	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				✓		
12	Ability to comprehend technical literature and prepare effective reports and design documents					✓	
13	Demonstrate competence in listening, speaking, and presentation			✓			
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 demonstrates comprehension of the tradeoffs involved in design choices.				✓		
17	An ability to apply design and development principles in the construction of software systems of varying complexity.					✓	

Space for comments:

Name of the organization: L R G Infrastructure

Address: Forest Colony Hubli

Name of the contact person: Tanaka Raj Malemani 8553838688

e-mail id: Malemani07@gmail.com Signature: Tanaka

KLE Technological University

Employers Feedback form

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				✓		
3	Ability to execute a solution process and analyze results				✓		
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process					✓	
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems				✓		
6	Ability 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				✓		
8	Demonstrate an understanding of professional engineering regulations, legislation and standards					✓	
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			✓			
10	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice				✓		

KLE Technological University

Employers Feedback form

	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				✓		
12	Ability to comprehend technical literature and prepare effective reports and design documents					✓	
13	Demonstrate competence in listening, speaking, and presentation				✓		
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 demonstrates comprehension of the tradeoffs involved in design choices				✓		
17	An ability to apply design and development principles in the construction of software systems of varying complexity					✓	

Space for comments:

—

Name of the organization: Shobha Limited, Sarjapur-Marthahalli Outer ring road, Devarabisanahalli, Bellandur Post

Address: Bangalore — 560103

Name of the contact person: Chetana A.N. 08046464500

e-mail id: webfeedback@shobha.com

Signature:

KLE Technological University
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

HOD

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.

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. ShivarajHalyal, Asst. Professor, KLE Tech.
22. Prof. Basanagouda Patil, Asst. Professor, KLE Tech.
23. Prof. Roopa Kuri, Asst. Professor, KLE Tech.

KLE Technological University

Creating Value
Leveraging Knowledge

School of Civil Engineering

Minutes of Meeting – Pre BoS

28/03/2018

UG Courses

1. 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.
2. 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).
3. 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

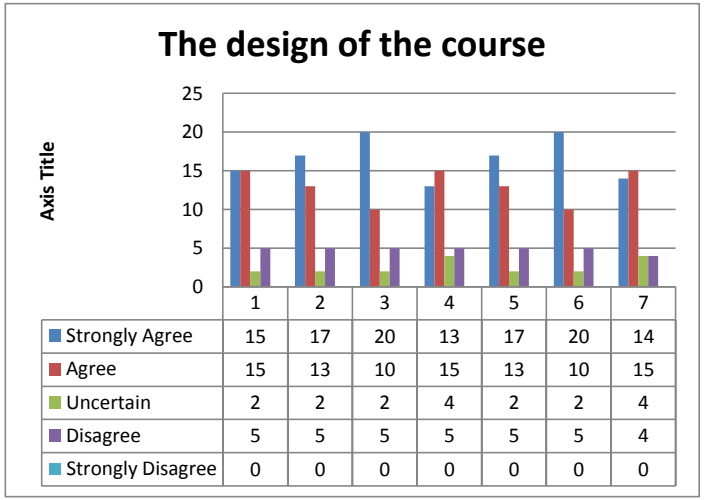
1. The scheme and syllabus were reviewed for the 4 semesters of MTech – Structural Engineering. A new course titled Advanced Material Science was proposed to be introduced.

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.
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.

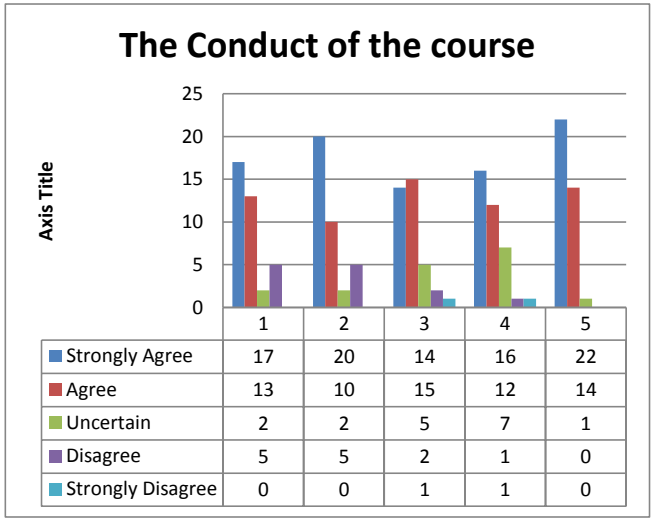
13. Prof. Vijaykumar S.K, Associate Professor, KLE Tech.
14. Prof. Gurunath Kampli, Asst. Professor, KLE Tech.
15. Prof. Prema Malali, Asst. Professor, KLE Tech.
16. Prof. Khalida M, Asst. Professor, KLE Tech.
17. Prof. Nikita K., Asst. Professor, KLE Tech.
18. Prof. Chaitanya Akkannavar, Asst. Professor, KLE Tech.
19. Prof. Fatheali Shilar, Asst. Professor, KLE Tech.
20. Prof. ShashwathNanjannavar, Asst. Professor, KLE Tech.
21. Prof. ShivarajHalyal, Asst. Professor, KLE Tech.
22. Prof. Basanagouda Patil, Asst. Professor, KLE Tech.
23. Prof. Roopa Kuri, Asst. Professor, KLE Tech.

Course Name : Construction Project Management Sem: IV Year: 2018-19 Even

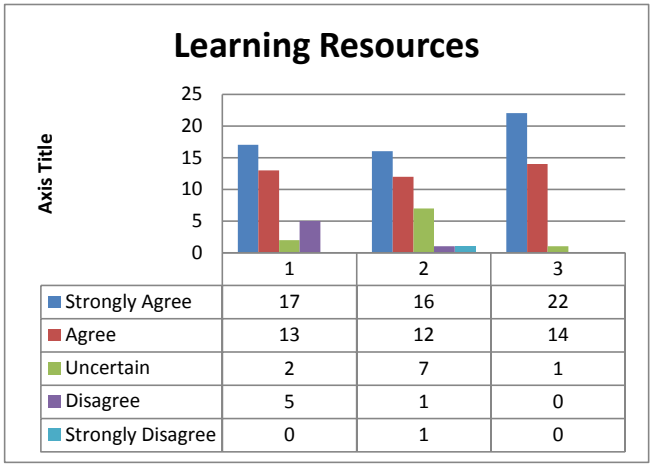
	a. The Design of the course	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
1	The course objectives were clear	28	9	0	0	1
2	The course contents met with your expectation	26	6	5	1	0
3	The course work load was manageable	30	5	3	0	0
4	The lecture sequence was well planned to meet learning outcomes	33	1	3	1	0
5	The contents were illustrated with adequate examples	35	3	0	0	0
6	The course exposed you to new knowledge and practice	24	9	3	1	1
7	The level of the course was moderate	26	7	2	2	1
		28.85714	5.714286	2.285714	0.714286	0.428571
	SUM of Avg	38	34.57143	90.97744		



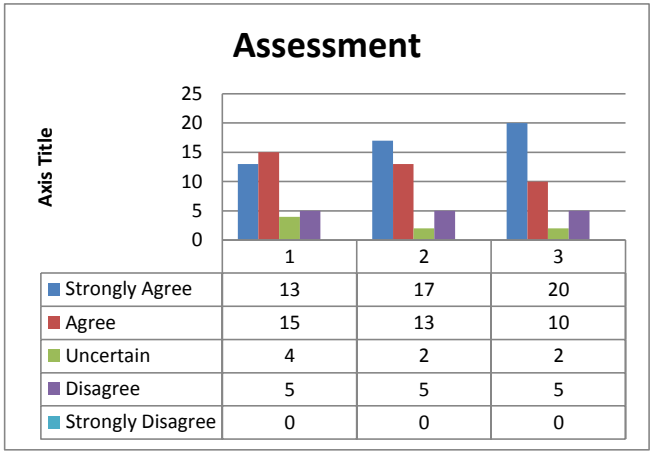
	b. The conduct of the course	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
1	The conduct were easy to understand & ideas and concepts presented clearly	25	9	3	1	0
2	The teaching aids were effective used	24	10	1	3	0
3	The curse material handed out was adequate	21	9	6	1	1
4	Were objectives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



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



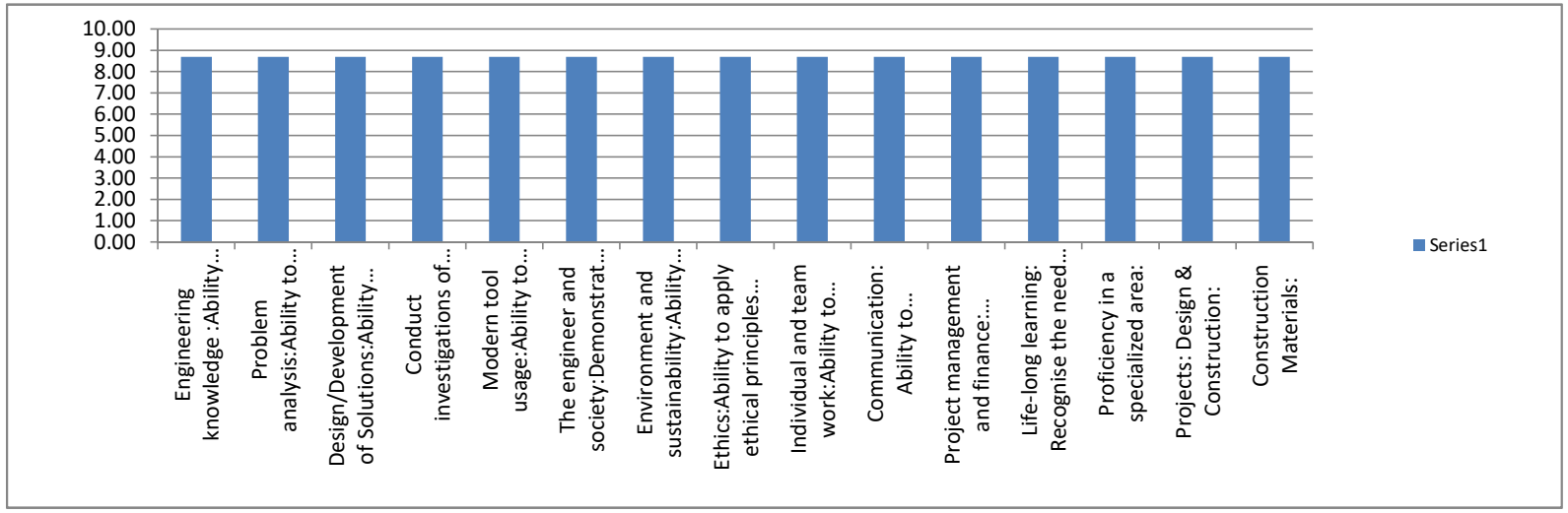
	d. Assessment	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
1	The methos of assessment were reasonable	28	6	3	1	0
2	Feedback on CIE assessment was timely	29	8	1	0	0
3	Feedback on CIE assessment was helpful	23	9	3	2	1
		26.66667	7.666667	2.333333	1	0.333333
		38	34.33333	90.35088		



COMMENTS:

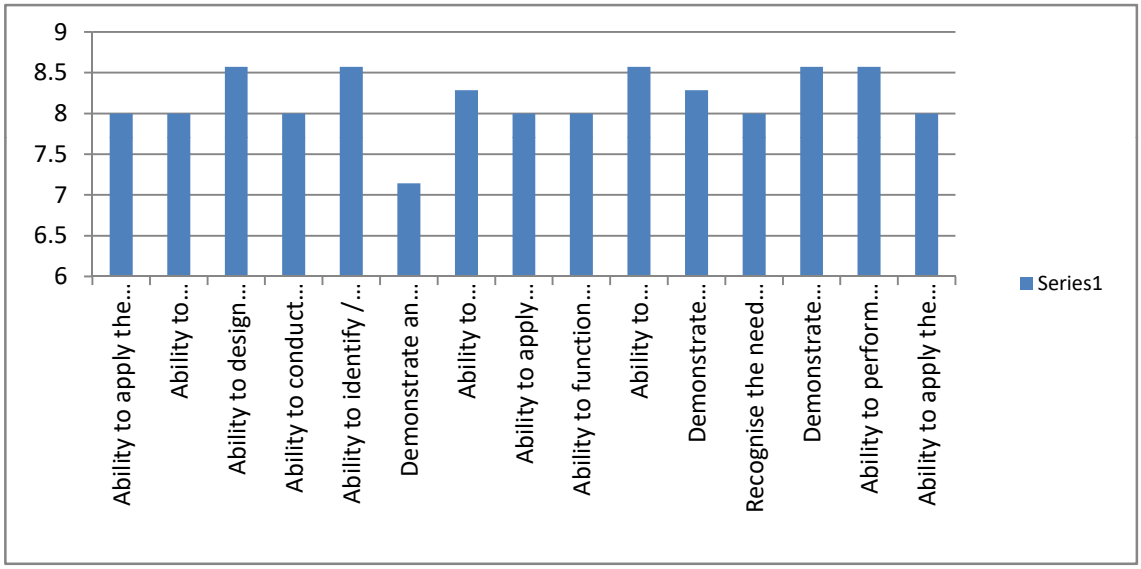
1. PPT was prepared related to few concepts and same was shared to students

	Competencies	Level of Competency	chool:Civil Emgineerin	Alumni Feedback Analysis (2018-2019)		
Sl Number		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:Al	0	0	28	25	53
6	The engineer and soci	0	0	28	25	53
7	Environment and su	0	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: Abil	0	0	28	25	53
11	Project management a	0	0	28	25	53
12	Life-long learning: Re	0	0	28	25	53
13	**Proficiency in a speci**	0	0	28	25	53
14	**Projects: Design & Co**	0	0	28	25	53
15	**Construction Materia**	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 departu	0	2	26	25	53



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

	Qualities	Level of Competency						Total
Sl 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 des	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 fun	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 per	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

REGISTRAR
KLE Technological University
HUBBALLI-580 031

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: According to data collected from the employers, improvement was needed in courses related to engineering regulations (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	PO 1 PO 5 PO 6

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

V. R. Patil

REGISTRAR
KLE Technological Un
HUBBALLI-580

KLE Technological University
Creating Value, Leveraging Knowledge

SCHOOL OF CIVIL ENGINEERING

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.

REGISTRAR
Technological University
580 031

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. ShivarajHalyal, 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. 3rd BoS 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.
5. 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).

REGISTRAR
KLE Technological University
BALLI-580 031

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.)

1. 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 University

REGISTRAR
KLE Technological University
HUBBALLI-580 031

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. **04 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 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.