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

Department/School _____ Name of the Teacher Dr. S.S. Bhavikatti

Course Title Theory of plates & shells Course code: _____ Semester 1st

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:

Good teaching

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

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

Date: 12/11/2018

Signature

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Course Feedback

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

or 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

Department/School _____ Name of the Teacher Dr. S.S. Bhavikatti

Course Title TOPS Course code: 1st Semester 1st

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% ☑ 90%70% - 80% ☐ - 70%50% - ☐ Below 50% ☐ ☐ ☐

Date: 12/11/2016

Signature

KLE Technological University
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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

Department/School _____ Name of the Teacher Dr. S.S. Bhavikatti

Course Title TOPS Course code: I Semester _____

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% ☐ 90%70% - 80% ☑ - 70%50% - ☐ Below 50% ☐ ☐ ☐

Date: 12/11/2018

Signature

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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

Department/School Structures Name of the Teacher Dr S.S Bhavikatti

Course Title Theory of plates & shells Course code: 15ESE702 Semester 1st

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:

Good

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

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

Signature Nihal

Date: 12/11/2018

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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

Department/School _____ Name of the Teacher S S Bhavikatti

Course Title Theory of plates & shells Course code: 18SCD1 Semester 1

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

Signature

Date: 12/8/2018

Dear proud alumni ,

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.

Regards,
Head of the department/School: Structural Engineering

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	**PO1: Scholarship of knowledge**				
	Ability to apply structural engineering principles for analysis and design of structural engineering systems				✓
	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field				✓
2	**PO2: Critical thinking skills**				
	Analyze complex structural engineering problems by applying independent judgment.			✓	
	Make intellectual advances for conducting theoretical and practical research			✓	
3	**PO 3: Problem solving**				
	Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system components for specified performance.			✓	
	Formulate and solve structural engineering problems taking into consideration public health, socio-cultural issues and environment constraints in the obtained solution			✓	
4	**PO4: Research skill**				
	Apply concepts of Structural engineering to review published literature on thrust research areas			✓	
	Review the published research on structural engineering to identify research directions			✓	
	Perform experimental and computational investigation to explore possibilities of performance improvement				
5	**PO 5: Modern tool usage:**				
	Use modern computer tools for structural analysis and design		✓		
	Ability to understand limitations and capabilities of available modern tools		✓		

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Alumni Survey Form

6	**PO6: Collaborative and multidisciplinary work**				
	Participate actively to execute group activities related to structural engineering through meaningful dialog with peers.			✓	
	Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams			✓	
7	**PO7:Project management and finance**				
	Develop activity charts for project execution with due considerations on financial aspects of the engineering project				✓
	Perform economic analysis of structural engineering projects to check plan and monitor its implementation				✓
8	**PO8: Communication**				
	Ability to make written communication on structural engineering related topics following the specified format				✓
9	**PO9: : Lifelong learning**				
	Ability to gather and assimilate information from books and other sources on topics of relevance to keep updated on the technical and scientific know-how on energy				✓
	Realize continuous improvement by acquiring new knowledge and skill sets for professional growth.				✓
10	**PO10: Ethical practices and social responsibility**				
	Make ethical decisions while discharging professional duties with due considerations of social responsibilities				✓
	Explain technology impact on society due to project execution for a sustainable solution to energy issue.				✓
11	**PO11: Independent and reflective learning**				
	Ability to self assess performance and evaluate the implications of a specified decision to an assigned task				✓

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: Emanasaweena Branch: Structural Engg
E-mail id: bmanasaweena@gmail.com Batch: 2015-17
Name of the company: Self Employment
Correspondence Address: T9/21, Sannidhi, Vasavi Nagar
Signature: bmweena@gmail.com

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proud alumni ,

Alumni Survey Form

following are the list of skills and competencies that engineering graduates should have. We seek your participation 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: Structural Engineering

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	**PO1: Scholarship of knowledge**				
	Ability to apply structural engineering principles for analysis and design of structural engineering systems				✓
	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field				✓
2	**PO2: Critical thinking skills**				
	Analyze complex structural engineering problems by applying independent judgment.				✓
	Make intellectual advances for conducting theoretical and practical research				✓
3	**PO 3: Problem solving**				
	Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system components for specified performance.				✓
	Formulate and solve structural engineering problems taking into consideration public health, socio-cultural issues and environment constraints in the obtained solution				✓
4	**PO4: Research skill**				
	Apply concepts of Structural engineering to review published literature on thrust research areas				✓
	Review the published research on structural engineering to identify research directions				✓
	Perform experimental and computational investigation to explore possibilities of performance improvement				✓
5	**PO 5: Modern tool usage:**				
	Use modern computer tools for structural analysis and design		✓		
	Ability to understand limitations and capabilities of available modern tools	✓			

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Alumni Survey Form

6	**PO6: Collaborative and multidisciplinary work**				
	Participate actively to execute group activities related to structural engineering through meaningful dialog with peers.				✓
	Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams				✓
7	**PO7:Project management and finance**				
	Develop activity charts for project execution with due considerations on financial aspects of the engineering project			✓	
	Perform economic analysis of structural engineering projects to check plan and monitor its implementation			✓	
8	**PO8: Communication**				
	Ability to make written communication on structural engineering related topics following the specified format			✓	
9	**PO9: : Lifelong learning**				
	Ability to gather and assimilate information from books and other sources on topics of relevance to keep updated on the technical and scientific know-how on energy			✓	
	Realize continuous improvement by acquiring new knowledge and skill sets for professional growth.			✓	
10	**PO10: Ethical practices and social responsibility**				
	Make ethical decisions while discharging professional duties with due considerations of social responsibilities			✓	
	Explain technology impact on society due to project execution for a sustainable solution to energy issue.			✓	
11	**PO11: Independent and reflective learning**				
	Ability to self assess performance and evaluate the implications of a specified decision to an assigned task		✓		

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: Swathi M	Branch: Structural Engineering
e-mail id:	Batch: 2015-17
Name of the company: JRF, IIT, Bombay.	
Correspondence Address:	
Signature: Swathi	

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Alumni Survey Form

proud alumni ,

following are the list of skills and competencies that engineering graduates should have. We seek your participation 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: Structural Engineering

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	**PO1: Scholarship of knowledge**				
	Ability to apply structural engineering principles for analysis and design of structural engineering systems			✓	
	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field			✓	
2	**PO2: Critical thinking skills**				
	Analyze complex structural engineering problems by applying independent judgment.			✓	
	Make intellectual advances for conducting theoretical and practical research			✓	
3	**PO 3: Problem solving**				
	Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system components for specified performance.			✓	
	Formulate and solve structural engineering problems taking into consideration public health, socio-cultural issues and environment constraints in the obtained solution			✓	
4	**PO4: Research skill**				
	Apply concepts of Structural engineering to review published literature on thrust research areas			✓	
	Review the published research on structural engineering to identify research directions			✓	
	Perform experimental and computational investigation to explore possibilities of performance improvement			✓	
5	**PO 5: Modern tool usage:**				
	Use modern computer tools for structural analysis and design			✓	
	Ability to understand limitations and capabilities of available modern tools			✓	

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Alumni Survey Form

6	**PO6: Collaborative and multidisciplinary work**				
	Participate actively to execute group activities related to structural engineering through meaningful dialog with peers.				✓
	Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams				✓
7	**PO7:Project management and finance**				
	Develop activity charts for project execution with due considerations on financial aspects of the engineering project				✓
	Perform economic analysis of structural engineering projects to check plan and monitor its implementation				✓
8	**PO8: Communication**				
	Ability to make written communication on structural engineering related topics following the specified format			✓	
9	**PO9: : Lifelong learning**				
	Ability to gather and assimilate information from books and other sources on topics of relevance to keep updated on the technical and scientific know-how on energy			✓	
	Realize continuous improvement by acquiring new knowledge and skill sets for professional growth.			✓	
10	**PO10: Ethical practices and social responsibility**				
	Make ethical decisions while discharging professional duties with due considerations of social responsibilities			✓	
	Explain technology impact on society due to project execution for a sustainable solution to energy issue.			✓	
11	**PO11: Independent and reflective learning**				
	Ability to self assess performance and evaluate the implications of a specified decision to an assigned task			✓	

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: Chaitra Marana	Branch: Structural Engg
e-mail id: Chaitra.marana@gmail.com	Batch: 2015-17
Name of the company: Assistant Professor at KLECET, Chikkodi	
Correspondence Address: Shivalabi Apts @ Adarsha Nagar Vadagaon	
Signature: Chaitra Marana	

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s proud alumni ,

Alumni Survey Form

e following are the list of skills and competencies that engineering graduates should have. We seek your participation n 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: Structural Engineering

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	**PO1: Scholarship of knowledge**				
	Ability to apply structural engineering principles for analysis and design of structural engineering systems			✓	
	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field			✓	
2	**PO2: Critical thinking skills**				
	Analyze complex structural engineering problems by applying independent judgment.			✓	
	Make intellectual advances for conducting theoretical and practical research				✓
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	Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system components for specified performance.			✓	
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	Perform experimental and computational investigation to explore possibilities of performance improvement				✓
5	**PO 5: Modern tool usage:**				
	Use modern computer tools for structural analysis and design		✓		
	Ability to understand limitations and capabilities of available modern tools		✓		

Alumni Survey Form

6	**PO6: Collaborative and multidisciplinary work**				
	Participate actively to execute group activities related to structural engineering through meaningful dialog with peers.			✓	
	Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams			✓	
7	**PO7:Project management and finance**				
	Develop activity charts for project execution with due considerations on financial aspects of the engineering project			✓	
	Perform economic analysis of structural engineering projects to check plan and monitor its implementation			✓	
8	**PO8: Communication**				
	Ability to make written communication on structural engineering related topics following the specified format			✓	
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	Make ethical decisions while discharging professional duties with due considerations of social responsibilities			✓	
	Explain technology impact on society due to project execution for a sustainable solution to energy issue.			✓	
11	**PO11: Independent and reflective learning**				
	Ability to self assess performance and evaluate the implications of a specified decision to an assigned task			✓	

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: T. P. Raghu	Branch: Structural En
e-mail id: raghuthyloor746@gmail.com	Batch: 2015-17
Name of the company: Karnataka Irrigation Dpt, Manaya	
Correspondence Address: Village & Post: Thyloor	
Signature: Raghuthyloor	

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Alumni Survey Form

proud alumni ,

following are the list of skills and competencies that engineering graduates should have. We seek your participation 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: Structural Engineering

S.No	Competencies	Level of Competency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	**PO1: Scholarship of knowledge**				
	Ability to apply structural engineering principles for analysis and design of structural engineering systems			✓	
	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field			✓	
2	**PO2: Critical thinking skills**				
	Analyze complex structural engineering problems by applying independent judgment.			✓	
	Make intellectual advances for conducting theoretical and practical research			✓	
3	**PO 3: Problem solving**				
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	Review the published research on structural engineering to identify research directions			✓	
	Perform experimental and computational investigation to explore possibilities of performance improvement			✓	
5	**PO 5: Modern tool usage:**				
	Use modern computer tools for structural analysis and design			✓	
	Ability to understand limitations and capabilities of available modern tools			✓	

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6	**PO6: Collaborative and multidisciplinary work**				
	Participate actively to execute group activities related to structural engineering through meaningful dialog with peers.			✓	
	Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams			✓	
7	**PO7:Project management and finance**				
	Develop activity charts for project execution with due considerations on financial aspects of the engineering project			✓	
	Perform economic analysis of structural engineering projects to check plan and monitor its implementation			✓	
8	**PO8: Communication**				
	Ability to make written communication on structural engineering related topics following the specified format			✓	
9	**PO9: : Lifelong learning**				
	Ability to gather and assimilate information from books and other sources on topics of relevance to keep updated on the technical and scientific know-how on energy			✓	
	Realize continuous improvement by acquiring new knowledge and skill sets for professional growth.			✓	
10	**PO10: Ethical practices and social responsibility**				
	Make ethical decisions while discharging professional duties with due considerations of social responsibilities			✓	
	Explain technology impact on society due to project execution for a sustainable solution to energy issue.			✓	
11	**PO11: Independent and reflective learning**				
	Ability to self assess performance and evaluate the implications of a specified decision to an assigned task				✓

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: Manjunath Gangadhar	Branch: Structural Engg
e-mail id: Cmanjunath.our@gmail.com	Batch: 2015-17
Name of the company: Lecturer, Gangadhar polytechnic	
Correspondence Address: 114-1, P.B. Road, Lakamanhalli	
Signature: Manjunath	

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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 : Structural 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 structural engineering principles for analysis and design of structural engineering systems	☐	☐	☐	☐	☑	
2	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field	☐	☐	☐	☐	☑	
3	Analyze complex structural engineering problems by applying independent judgment.	☐	☐	☐	☐	☑	
4	Make intellectual advances for conducting theoretical and practical research	☐	☐	☐	☐	☑	
5	Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system components for specified performance.	☐	☐	☐	☐	☐	
6	Formulate and solve structural engineering problems taking into consideration public health, socio-cultural issues and environment constraints in the obtained solution	☐	☐	☐	☐	☑	
7	Apply concepts of Structural engineering to review published literature on thrust research areas	☐	☐	☐	☑	☐	
8	Demonstrate an understanding of professional engineering regulations, legislation and standards	☐	☐	☐	☐	☑	
9	Review the published research on structural engineering to identify research directions	☐	☐	☐	☐	☑	
10	Ability to understand limitations and capabilities of available modern tools	☐	☐	☐	☐	☑	

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	Qualities	1	2	3	4	5	NA
11	Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams	☐	☐	☐	☐	☐	
12	Perform economic analysis of structural engineering projects to check plan and monitor its implementation	☐	☐	☐	☐	☐	
13	Demonstrate competence in listening, speaking, and presentation	☐	☐	☐	☐	☐	
14	Ability to gather and assimilate information from books and other sources on topics of relevance to keep updated on the technical and scientific know-how on energy	☐	☐	☐	☐	☐	
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	Explain technology impact on society due to project execution for a sustainable solution to energy issue.	☐	☐	☐	☐	☐	
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: IIT, Bombay

Address: Powai, Mumbai

Name of the contact person: Swathi M

e-mail id: swathi@gmail.com

Signature: Swathi

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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 : Structural 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 structural engineering principles for analysis and design of structural engineering systems	☐	☐	☐	☐	☑	
2	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field	☐	☐	☐	☐	☑	
3	Analyze complex structural engineering problems by applying independent judgment.	☐	☐	☐	☑	☐	
4	Make intellectual advances for conducting theoretical and practical research	☐	☐	☐	☑	☐	
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12	Perform economic analysis of structural engineering projects to check plan and monitor its implementation	☐	☐	☐	☐ ✓	☐	
13	Demonstrate competence in listening, speaking, and presentation	☐	☐	☐	☐ ✓	☐	
14	Ability to gather and assimilate information from books and other sources on topics of relevance to keep updated on the technical and scientific know-how on energy	☐	☐	☐	☐	☐ ✓	
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	Explain technology impact on society due to project execution for a sustainable solution to energy issue.	☐	☐	☐	☐	☐ ✓	
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: Karnataka Irrigation department

Address: Mandya

Name of the contact person: T. P. Raghu

e-mail id: raghuthylcor746@gmail.com

Signature: Raghuthyl

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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: Self Employment

Address: 1d/21, Sindagi

Name of the contact person: Dr Manasaveena.

e-mail id: drmanasaveena@gmail.com

Signature: Dr Manasa

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Space for comments:

Name of the organization: Asst. Professor, KLECET, Chikodi.	
Address: Chikodi	
Name of the contact person: Chaitra Mamal	
e-mail id: Chaitra Mamal@gmail.com	Signature: Chaitra Mamal.

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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: Gangadhar polytechnic	
Address: P.B road, Tabunahalli	
Name of the contact person: Manjunath Gangadhar	
e-mail id: manjunath.out@gmail.com	Signature: Manjunath

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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.

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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.
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8. Dr. V.B. Patil, Professor, KLE Tech.
9. Prof. V.P. Patil, Associate Professor, KLE Tech.
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16. Prof. Khalida M, Asst. Professor, KLE Tech.
17. Prof. Nikita K., Asst. Professor, KLE Tech.
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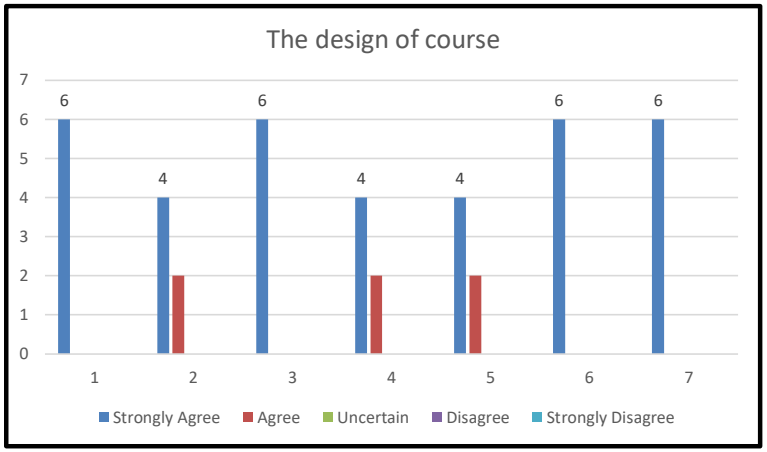
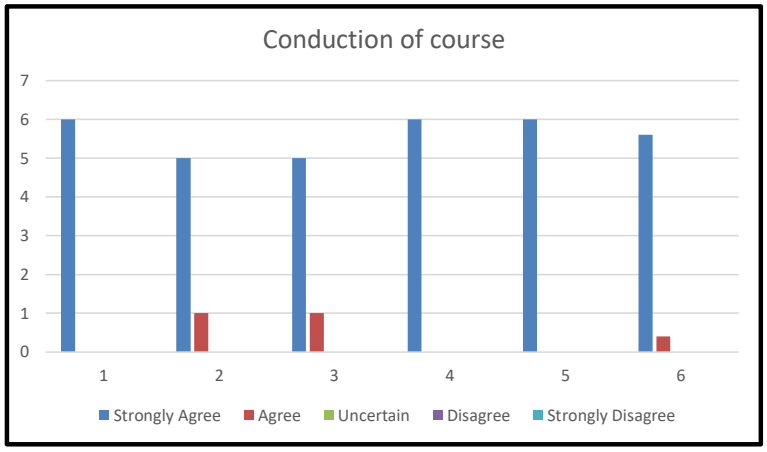
19. Prof. Fatheali Shilar, Asst. Professor, KLE Tech.
20. Prof. ShashwathNanjannavar, Asst. Professor, KLE Tech.
21. Prof. ShivarajHalyal, Asst. Professor, KLE Tech.
22. Prof. Basanagouda Patil, Asst. Professor, KLE Tech.
23. Prof. Roopa Kuri, Asst. Professor, KLE Tech.

Course Name : Theory pf plates and shells Sem: I Year: 2018-19 odd

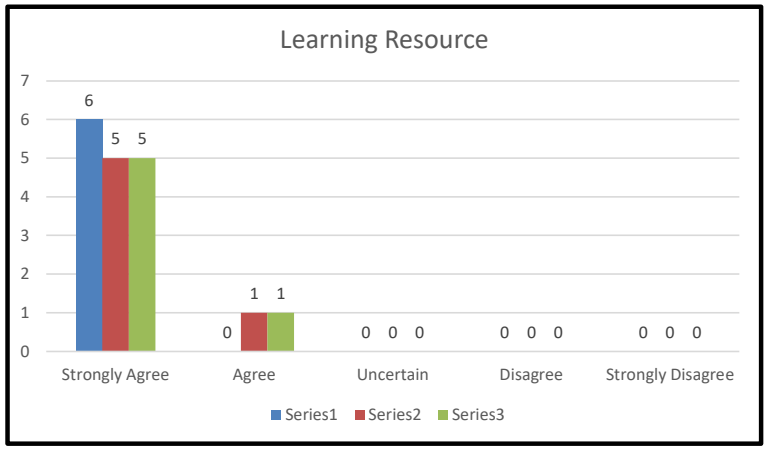
	a. The Design of the course	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree	
1	The course objectives were clear	6	0	0	0	0	6
2	The course contents met with your expectation	4	2	0	0	0	6
3	The course work load was manageable	6	0	0	0	0	6
4	The lecture sequence was well planned to meet learning outcomes	4	2	0	0	0	6
5	The contents were illustrated with adequate examples	4	2	0	0	0	6
6	The course exposed you to new knowledge and practice	6	0	0	0	0	6
7	The level of the course was moderate	6	0	0	0	0	6
		5.142857	0.857143	0	0	0	6
	SUM of Avg	6	6	100			



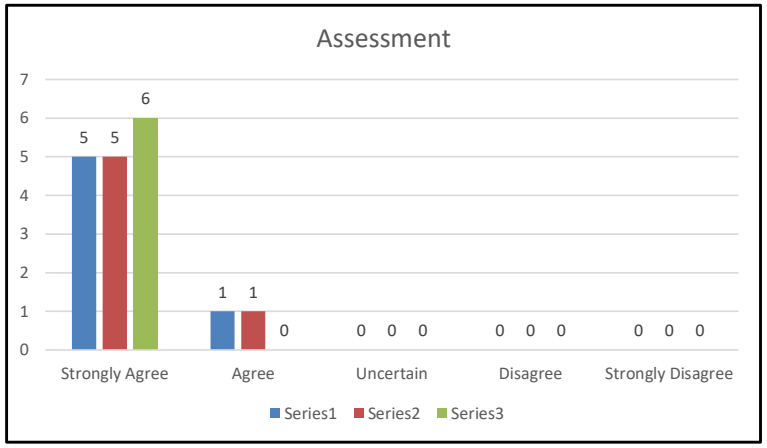
	b. The conduct of the course	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree	
1	The conduct were easy to understand & ideas and concepts presented clearly	6	0	0	0	0	6
2	The teaching aids were effective used	5	1	0	0	0	6
3	The curse material handed out was adequate	5	1	0	0	0	6
4	Were objectives of the course realized?	6	0	0	0	0	6
5	The overall environment in the class was conductive to learning	6	0	0	0	0	6
		5.6	0.4	0	0	0	
		6	6	100			



	c. Learning Resources	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree	
1	Learning materials (Lesson plans, course Notes etc) were relevent & useful	6	0	0	0	0	6
2	Recommended reading Books etc. were relevent & appropriate	5	1	0	0	0	6
3	The provision of learning resources in the library was adequate & appropriate	5	1	0	0	0	6
		5.333333	0.666667	0	0	0	
		6	6	100			



	d. Assessment	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree	
1	The methos of assessment were reasonable	5	1	0	0	0	6
2	Feedback on CIE assessment was timely	5	1	0	0	0	6
3	Feedback on CIE assessment was helpful	6	0	0	0	0	6
		5.333333	0.666667	0	0	0	
		6	6	100			



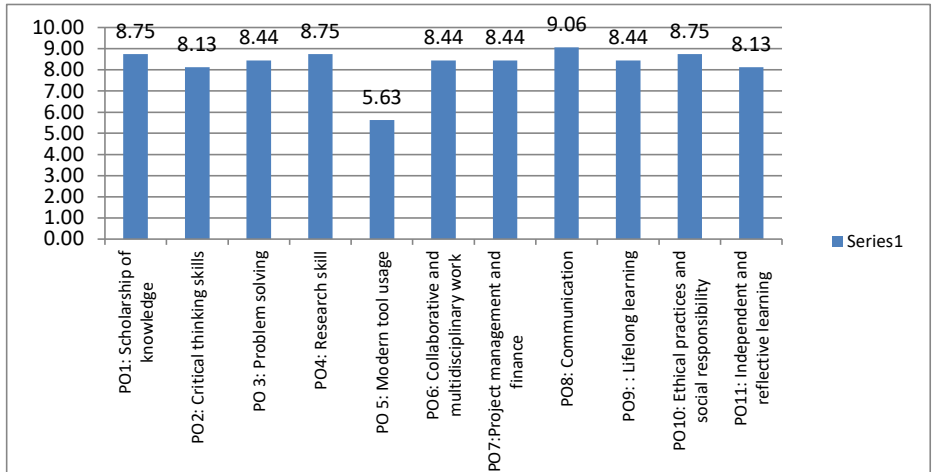
COMMENTS:

1. For better understanding and visualization of few concepts presentation were prepared and same was shared to students

Alumini_Student_Exit Survey (2017 Passout)

Sl	Number	Competencies	Level of Competency Completely dissatisfied	Dissatisfied	Satisfied	Completely satisfied	
			0	**2.5**	**7.5**	**10**	**Total**
1		PO1: Scholarship of knowledge	0	0	4	4	8
2		PO2: Critical thinking skills	0	0	6	2	8
3		PO 3: Problem solving	0	0	5	3	8
4		PO4: Research skill	0	0	4	4	8
5		PO 5: Modern tool usage	0	4	2	2	8
6		PO6: Collaborative and multidisciplinary work	0	0	5	3	8
7		PO7:Project management and finance	0	0	5	3	8
8		PO8: Communication	0	0	3	5	8
9		PO9: : Lifelong learning	0	0	5	3	8
10		PO10: Ethical practices and social responsibility	0	0	4	4	8
11		PO11: Independent and reflective learning	0	1	3	4	8
			Not Satisfied	Little Satisfied	Satisfied	Very Satisfied	0
16		How would you rate your overall satisfaction with y	0	0	4	4	8
			Poor	Ok	Good	Very Good	0
17		In general, the department has provided a _____ q	0	2	5	3	10

Analysis Of Alumini_Student_Exit Survey (2017 Passout)



Employers Feed back (2018-19)

	Qualities	Level of Competency						Total
	Sl Number	**1 (Low**	**(Averag**	**(Good**	**Very Go**	**excelle**	**NA**	
		2	**4**	**6**	**8**	**10**	**0**	
1	**Ability to apply structural engineering principles for analysis and design of structural engineering systems**	**0**	**0**	**2**	**3**	**2**	**0**	7
2	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field	0	0	2	3	2	0	7
3	Analyze complex structural engineering problems by applying independent judgment.	0	0	1	3	3	0	7
4	Make intellectual advances for conducting theoretical and practical research	0	0	2	3	2	0	7
5	Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system components for specified performance.	0	0	1	3	3	0	7
6	Formulate and solve structural engineering problems taking into consideration public health, socio-cultural issues and environment constraints in the obtained solution	0	2	1	2	2	0	7
7	Apply concepts of Structural engineering to review published literature on thrust research areas	0	0	2	2	3	0	7
8	Demonstrate an understanding of professional engineering regulations, legislation and standards	0	0	1	5	1	0	7
9	Review the published research on structural engineering to identify research directions	0	0	2	3	2	0	7
10	Ability to understand limitations and capabilities of available modern tools	0	0	1	3	3	0	7
11	Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams	0	0	1	4	2	0	7
12	Perform economic analysis of structural engineering projects to check plan and monitor its implementation	0	0	2	3	2	0	7
13	Demonstrate competence in listening, speaking, and presentation	0	0	1	3	3	0	7
14	Ability to gather and assimilate information from books and other sources on topics of relevance to keep updated on the technical and scientific know-how on energy	0	0	1	3	3	0	7
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	0	0	2	3	2	0	7
16	Explain technology impact on society due to project execution for a sustainable solution to energy issue.	0	0	2	3	2	0	7
17	An ability to apply design and development principles in the construction of software systems of varying complexity.	0	0	2	3	2	0	7


Analysis of Employers Feedback
An ability to apply design and development principles in the construction of software systems of varying complexity.
8
Explain technology impact on society due to project execution for a sustainable solution to energy issue.
8
Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological...
8
Ability to gather and assimilate information from books and other sources on topics of relevance to keep updated on the technical and scientific know-...
8.57
Demonstrate competence in listening, speaking, and presentation
8.57
Perform economic analysis of structural engineering projects to check plan and monitor its implementation
8
Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams
8.29
Ability to understand limitations and capabilities of available modern tools
8.57
Review the published research on structural engineering to identify research directions
8
Demonstrate an understanding of professional engineering regulations, legislation and standards
8
Apply concepts of Structural engineering to review published literature on thrust research areas
8.29
Formulate and solve structural engineering problems taking into consideration public health, socio-cultural issues and environment...
7.14
Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system components for...
8.57
Make intellectual advances for conducting theoretical and practical research
8
Analyze complex structural engineering problems by applying independent judgment.
8.57
Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field
8
Ability to apply structural engineering principles for analysis and design of structural engineering systems
8

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1. **Action Taken Report Approved in Board of Studies dated _07/04/2018_ and implemented with effect from 2018-19**

Observations/ Recommendations based on feedback	POs impacted
Teachers Feedback (Pre-BoS MoM): • The students must be made aware of fabrication and applications of advance construction material and composite materials. Alumni Feedback: • According to data collected from the alumni, improvement was needed in the courses related to Modern Tool Usage (PO 5).	PO 1 PO 4 PO 5

Actions taken	Course Revised/ Added	BoS approved Date
1. New course entitled "Advance Material Science" is introduced in 3rd semester students. 2. In the above course, pedagogical assessment for ISA (In Semester Assessment) evaluation is modified by introducing course seminar.	Advance material science (15ESEC801)	07/04/2018
1. New laboratory titled "Structural Simulation Laboratory" (2 credits) based on ABAQUS software is introduced in the second semester. 2. One day Hands On training on 'ABAQUS' software is introduced.	Structural simulation Laboratory (18ECEP701)	07/04/2018

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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.

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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. 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).

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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.)

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

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Course Content

Course Code: **15ESEC801**		Course Title: **Advanced Material Science**
L-T-P**: 3-0-0**	Credits: **3**	Contact Hrs: **3 hrs/week**
ISA Marks: **50**	ESA Marks: **50**	Total Marks: **100**
Teaching Hrs: **40 hrs**		Exam Duration: **3 hrs**

Unit – I

1. Structure of Concrete

Structure of aggregate phase & hydrated cement paste, mechanism of hydration, hydration products & micro structure, voids in cement paste, water in hydrated cement paste, properties of HCP, Transition zone in concrete. **08 hrs**

2.Special Conncretes

Fibre reinforced concrete, Carbon fibers, carbon nanotubes. Repair of Concrete structures, grouting shortcreting and guniting Epoxy resins, CFRP and GFRP sheets. **07 hrs**

Unit – II

1. Introduction to composite material

Introduction to materials, traditional materials, development, properties, strength of and mechanical properties of materials , introduction, definition, classification and characteristics of composite materials - fibrous composites, laminated composites, particulate composites **05 hrs**

2. Fiber, matrices and their application

Fiber, matrices and their application - Different types of fibers and matrices. Polymer composites, metal composites and ceramic composites, Application of composites in different industries. **05 hrs**

6. An overview of Nanoscience & Nanotechnology

Historical background – nature, scope and content of the subject multidisciplinary aspects – industrial, economic and societal implications, Experimental techniques and Methods **06 hrs**

Introduction to Nanomaterials- Carbon Nanotubes , synthesis and purification – filling of nanotubes , mechanical and physical properties – applications

Unit – III

7. Introduction to nano-composite

Nano composite polymer matrix, nano composite ceramic matrix, nano composite metal matrix Applications in engineering, future scope of nano-composite, research. **05 hrs**

8.Safety and environmental aspects

Safety and environmental aspects of nano-materials, future challenge, cost optimization and fabrication process of nano composite materials **04 hrs**

Text Book:

1. Mehta, P. K., *Concrete: Microstructure, Properties, and Materials*, 4ed., McGraw-Hill Education: New York,, 2014.
2. A.M. Neville, *Properties of Concrete*, Longmans, 4th Edition, 1995
3. Hull D. and Clyne T.W., *Introduction to Composite Materials*, Cambridge University Press, 2ed, 1996.
4. Pradeep T., *NANO: The Essentials – Understanding Nanoscience and Nanotechnology*, 1ed., Tata McGraw-Hill Education Pvt. Ltd, New Delhi, 2017

References:

1. Sidney Mindess and J. Frances Young, *Concrete*, PH NJ, 1981.
2. IS: 10262 -2007 Code of Practice for Concrete Mix Design.
3. ACI 318-2005, Code of practice for reinforced concrete structures
4. Ventra M.,Evoy S., Heflin J.R., *Introduction to Nanoscale Science and Technology [Series: Nanostructure Science and Technology]*, Springer (2006).
5. Chawla K.K., *Composite Material : Science and Engineering*, 3ed., Springer, 2012.
6. Linda Williams & Wade Adams, *Nanotechnology Demystified*, McGraw-Hill Company Inc, New York, 2007.
7. Johns R.M., *Mechanics of Composite Materials*, 2ed., CRC Press, 2015.

Course Code: **18ESEP701**		Course Title: **Structural Simulation Laboratory**
L-T-P**: 0-0-1**	Credits: **1**	Contact Hrs: 2**hrs/week**
ISA Marks: **80**	ESA Marks: **20**	Total Marks: **100**
Teaching Hrs: **24hrs**		Exam Duration: **3 hrs**

List of experiments/jobs planned to meet the requirements of the course.

1. Introduction to ABAQUS modeling, material properties, meshing and element types.
2. Introduction to Loading, Boundary conditions and post processing.
3. Analysis of member forces in beams
4. Analysis of member forces in beams with surface interaction
5. Analysis of member forces and deflections in truss
6. Analysis of stress concentrations near the geometric imperfections
7. Analysis for member forces in portal frames.

Materials and Resources Required:

1. ABAQUS Benchmark manual 6.11.
2. ABAQUS release notes 6.13.
3. ABAQUS Example problem manual, Volume I (Statics and dynamics)
4. ABAQUS Example problem manual, Volume II (Other Applications and Analyses)
5. ABAQUS Verification manual