

(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. C.S. Bhowitatti
	plater Gshalls Course code:Semester _SF

a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear	V				
The course contents met with your expectation	11				
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	V				
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	-		1		

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	V				
The provision of learning resources in the library was adequate and appropriate	1				

d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly
The method of assessment were reasonable			+		Disagree
Feedback on ISA assessment was timely					
Feedback on ISA assessment was helpful					
uggestions for improvement:					

Good teaching Overall rating of the course: (/tick mark the appropriate) 90% -100% 2 90% 70% - 809 - 70% 50% - Below 50% Date: 12/11/2018 Sign



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

or Students,

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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_ Course Title ______

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		V			
The contents were illustrated with adequate examples		10			
The course exposed you to new knowledge and practice	- Y			+	
The level of the course was moderate	1			1	1

b. The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly	N	-			
The teaching aids were effectively used					
The course material handed out was adequate	V				
Were objectives of the course realized?	V				
The overall environment in the class was conducive to learning	V				1

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful	4				
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					

Overall rating of the course: (/tick mark the appropriate) 90% - 100% 90%70% - 80% 6 - 70%50% - Below 50% Date: 12/11/20% Signature



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

Dear Students,

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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.

Department/School	Name of the Teacher Dr. S.S. Bhawi kath
Course Title 1005	Course code: 2 Semester

Course Teacher

a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The course objectives were clear	V				
The course contents met with your expectation		V	1		
The course work load was manageable					
The lecture sequence was well planned to meet learning outcomes	V				
The contents were illustrated with adequate examples					
The course exposed you to new knowledge and practice	1				
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		K.			
The teaching aids were effectively used		V			
The course material handed out was adequate					1
Were objectives of the course realized?	V				
The overall environment in the class was conducive to learning	0				1

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful	V				
Recommended reading Books etc. were relevant and appropriate		11		1	1
The provision of learning resources in the library was adequate and appropriate	1./				1

Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
	1/	1		
	V	+		+
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2

Overall rating of the course: (Jtick mark the appropriate)			
90% -100% 90% 70% - 80% - 70% 50% - Below 50% Date: 2112018		Janeyer Signature	



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

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 Course Title Theory of plates Syche	Dr. S.S. 113 Course cc	Bh ISES ode:	auita Eros Semest	<u>+</u> +	t .
	Strongly	Agree	Uncertain	Disagree	Strongly Disagree
a. The design of the course	agree				
The course objectives were clear	V				
The course contents met with your expectation	V				
The course work load was manageable The lecture sequence was well planned to meet learning outcomes					
illustrated with adequate examples					
The contents were inducated with revealed and practice The course exposed you to new knowledge and practice	V				

The level of the course was moderate exp

	Strongly	Agree	Uncertain	Disagree	Strongly Disagree
b. The conduct of the course	agree				
b. The conduct of the course	V				
The lectures were easy to understand & ideas and concepts presented clearly	V				
The teaching aids were effectively used	V	V			
The course material handed out was adequate					
the time of the course realized?					1
Were objectives of the course receives was conducive to learning The overall environment in the class was conducive to learning					

	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
c. Learning Resources	V				
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful	V	1			
Learning materials (Leason view) Recommended reading Books etc. were relevant and appropriate		V			

The provision of learning resources in the library was

1 Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
d. Assessment		V			
The method of assessment were reasonable					
Feedback on ISA assessment was timely Feedback on ISA assessment was helpful					1

Suggestions for improvement:

Good	
Overall rating of the course: (√tick mark the appropriate) 90% -100%8 90%70% - 809 - 70%50% - Below 50% -	- Hihar
Date: 12/11/2018	0.0.0



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

ar 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. BLaw, Kath Theory of plates 5 chells course code: 15(2) Semester 1

Course Title

Strongly	Agree	Uncertain	Disagree	Strongly
agree		-		Disagree
V				
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	and a start load in successful when successful we are the party of the successful when the successful we are the succes	agree	agree V	agree V

b. The conduct of the course	Strongly	Agree	Uncertain	Disagree	Strongly Disagree
b. The conduct of the course	agree				
The lectures were easy to understand & ideas and concepts presented clearly	V				
The lectures were easy to understand & ideas and concepts presented and	~				
The teaching aids were effectively used		V			
The course material handed out was adequate		~			
Were objectives of the course realized?					
The overall environment in the class was conducive to learning			1		

ee			 Disagree
	5		
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	Strongly	Agree	Uncertain	Disagree	Strongly Disagree
d. Assessment	agree				
The method of assessment were reasonable					
Feedback on ISA assessment was timely	V				
Feedback on ISA assessment was helpful			1		

Suggestions for improvement:

	20 - E. C
Overall rating of the course: (Jtick mark the appropriate) 90% -100% 90% 70% - 80% 6 - 70%50% - Below 50%	D Packens
Date: 12 18112018	Signature



Dear proud alumni ,

Alumni Survey Form

The following are the list of skills and competencies that engineering graduates should have. We seek your participation The formation of the seek your participant 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.

6

Regards,

Head of the department/School: Structural Engineering

No	Competencies	: .	evel of Co	mpetency	
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfie
	PO1: Scholarship of knowledge				
	Ability to apply structural engineering principles for analysis and design of structural engineering systems		1	•	V
	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field	A proved			V
2	PO2: Critical thinking skills				
	Analyze complex structural engineering problems by applying independent judgment.		• •	1	
	Make intellectual advances for conducting theoretical and practical research	1.1.1		V	
3	PO 3: Problem solving	5.1			1
	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			~	Terre a
4	PO4: Research skill				
	Apply concepts of Structural engineering to review published literature on thrust research areas			V	1
	Review the published research on structural engineering to identify research directions			U	1
	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		V	1	
	Ability to understand limitations and capabilities of available modern tools		V	1	Page 1 of 2



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6								
6	PO6: Collaborative and multidisciplinary work				13			
	PO6: Collaborative and the				8			
	Participate actively to execute group activities related to			V	-2			
	Participate actively to execute group activity with peers.							
	Participate actively to execute group dealog with peers. structural engineering through meaningful dialog with peers.		* ·					
			1.1.1.1.1.1	110				
	Ability to seek solutions to structural engineering problems while working collaboratively in multidisciplinary							
	teams	ł						
7	PO7:Project management and finance							
0					11			
	Develop activity charts for project execution with due	1						
	considerations on financial aspects of the engineering project				1./			
	Perform economic analysis of structural engineering projects to	1999 P	5					
	check plan and monitor its implementation	1 .			1			
8	PO8: Communication				-			
	Ability to make written communication on structural				11/			
	engineering related topics following the specified format							
					199			
9	PO9: : Lifelong learning	1		- ind	1			
	Ability to gather and assimilate information from books and			a state of	1 /			
	other sources on topics of relevance to keep updated on the		and the second second					
	technical and scientific know-how on energy							
	Realize continuous improvement by acquiring new knowledge	·						
	and skill sets for professional growth.				1/			
0	PO10: Ethical practices and social responsibility	161. 18 St. 19			U			
-	Make ethical decisions while discharging professional duties							
	with due considerations of social responsibilities				V			
				+				
	Explain technology impact on society due to project execution for a sustainable solution to energy issue.				1/			
1				<u> </u>	· · ·			
•	PO11: Independent and reflective learning							
	Ability to self assess performance and evaluate the implications			T				
	of a specified decision to an assigned task			1	V			
				1				
	Indicate your Answer with symbol "A"	" in the appropria	ite box.					
Ho	w would you rate your overall satisfaction with your preparat	ion to become an e	ingineer?					
			. r-	2.				
	Not Satisfied Little Satisfied Satisfied	d Very	Satisfied	1				
			Ľ					
In ge	eneral, the department has provided a quality a	cademic program?						
	Poor OK Good	Very	Good					
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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

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S.No	Competencies	Level of Competency					
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfie		
1	PO1: Scholarship of knowledge	· · · · · ·			1		
	Ability to apply structural engineering principles for analysis and design of structural engineering systems	5 P			V		
	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field						
2	PO2: Critical thinking skills	1					
-	Analyze complex structural engineering problems by applying independent judgment.		,		U		
	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				Y		
	Apply concepts of Structural engineering to review published literature on thrust research areas		1		V		
	Review the published research on structural engineering to identify research directions				V		
	Perform experimental and computational investigation to explore possibilities of performance improvement			•	1V		
5	PO 5: Modern tool usage:						
	Use modern computer tools for structural analysis and design		V				
	Ability to understand limitations and capabilities of available modern tools	\checkmark			Page 1 of 2		

	Alumni Survey Form	01 × 00
	PO6: Collaborative and multidisciplinary work	
	Participate related to	V
	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	1
	teams	
	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 PO8: Communication	
	Ability to make written communication on structural	
	engineering related topics following the specified format	
)	PO9: : Lifelong learning	
,	Ability to gather and assimilate information from books and	
	other sources on topics of relevance to keep updated on the	1/
	technical and scientific know-how on energy	
	Realize continuous improvement by acquiring new knowledge	
	and skill sets for professional growth.	
10		
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	
	Explain technology impact on society due to project execution	

Ability to self assess performance and evaluate the implications	
of a specified decision to an assigned task	

for a sustainable solution to energy issue.

PO11: Independent and reflective learning

11

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	M	
2) In general, the department	nt has provided a	quality academi	c program?		
Poor	ОК.	Good	Very Good	V	
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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 our 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 Con	mpetency			
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied		
1	PO1: Scholarship of knowledge	1					
	Ability to apply structural engineering principles for analysis and design of structural engineering systems			レ			
	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field			V			
2	PO2: Critical thinking skills		T				
	Analyze complex structural engineering problems by applying independent judgment.			V			
	Make intellectual advances for conducting theoretical and practical research		and the second second	V			
3	PO 3: Problem solving	and the second second					
z	Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system components for specified performance.			V			
	Formulate and solve structural engineering problems taking into consideration public health, socio-cultural issues and environment constraints in the obtained solution			V			
4	PO4: Research skill						
	Apply concepts of Structural engineering to review published literature on thrust research areas			V			
	Review the published research on structural engineering to identify research directions			V			
	Perform experimental and computational investigation to explore possibilities of performance improvement			V	-		
	PO 5: Modern tool usage:						
	Use modern computer tools for structural analysis and design			V			
	Ability to understand limitations and capabilities of available modern tools			V	Page 1 of 2		



Alumni Survey Form

6	PO6: Collaborative and multidisciplinary work		1		
	Participate actively to execute group activities related to				2
	in a series of through meaningful dialog with peers.				
	solutions to structural engineering related				
	Ability to seek solutions to shortively in multidisciplinary 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				5
	check plan and monitor its implementation				
8	post communication				
	Ability to make written communication on structural				
	engineering related topics following the specified format				
9	PO9: : Lifelong learning	A start of the start of the			
	Ability to gather and assimilate information from books and			1	
	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.			LL	
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			V	
	for a sustainable solution to energy issue. PO11: Independent and reflective learning				
1	POIL: Independent and reflective tearing				
	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 bo	DX.		
1 4	ow would you rate your overall satisfaction with your preparation to be	come an engine	eer?		
() н				V	
	Not Satisfied Little Satisfied Satisfied	Very Satisf	fied	1 /	
	general, the department has provided a quality academic	program?		/	
Ing	general, the department has provided a quality academic				
	Poor OK Good	Very Good	d 🗸		
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Signature:

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proud alumni ,

Alumni Survey Form

be following are the list of skills and competencies that engineering graduates should have. We seek your participation is the Alumni Survey conducted as a result of A the Alumni Survey conducted to know your satisfaction with the level of competency you have achieved as a result of your education at 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 other same of the symbol "A" in the appropriate column/box. All individual responses will be kept confidential. Only statistically analyzed

Regards,

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Head of the department/School: Structural Engineering

S.No	Competencies		Level of Co	mpetency	
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfier
1	PO1: Scholarship of knowledge		1		
	Ability to apply structural engineering principles for analysis and		1		
	design of structural engineering systems			V.	
	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field			V	
2	PO2: Critical thinking skills				
	Analyze complex structural engineering problems by applying independent judgment.			V	
	Make intellectual advances for conducting theoretical and practical research				V
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.			\checkmark	
	Formulate and solve structural engineering problems taking into consideration public health, socio-cultural issues and environment constraints in the obtained solution			V	
	PO4: Research skill	-			Anno anno an Anno anno anno an
	Apply concepts of Structural engineering to review published literature on thrust research areas				V
	Review the published research on structural engineering to identify research directions				~
	Perform experimental and computational investigation to explore possibilities of performance improvement				
	PO 5: Modern tool usage:				
Ī	Use modern computer tools for structural analysis and design		V		
3	Ability to understand limitations and capabilities of available modern tools				Page 1 of 2

Alumni Survey Form

6	PO6: Collaborative and multidisciplinary work				-		
	Participate actively to execute group activities related to						
	in a series through mediling of the p						
	the solutions to structural engineering related						
	problems while working collaboratively in multidisciplines y						
7	teams PO7:Project management and finance						
	Develop activity charts for project execution with due			V			
	considerations on financial aspects of the engineering project			1			
	Perform economic analysis of structural engineering projects to						
	check plan and monitor its implementation						
8	PO8: Communication Ability to make written communication on structural						
	Ability to make written communication on engineering related topics following the specified format						
9	poor Lifelong learning		1		· · ·		
3	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.			\checkmark			
11	PO11: Independent and reflective learning						
	Ability to self assess performance and evaluate the implications						
	of a specified decision to an assigned task			V			
	Indicate your Answer with symbol "A"	in the appropriate	box.				
1) H	low would you rate your overall satisfaction with your preparati	on to become an eng	neer?				
-,							
	Not Satisfied Little Satisfied Satisfied	y Very Sa	tisfied				
2) In	general, the department has provided a quality a	cademic program?					
	Poor OK Good	Very G	000				
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Alumni Survey Form

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

results from the entire population will be shared.

Regards,

Head of the department/School: Structural Engineering

	. 1.	Level of Con				
	Competencies	Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied	
S.No		Completely				
	in the second seco					
1	PO1: Scholarship of knowledge			V		
	PO1: Scholarship of knows Ability to apply structural engineering principles for analysis and design of structural engineering systems		•			
	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			V		
	practical research					
3	PO 3: Problem solving Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system			V		
	analytical and minicited performance. 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			\checkmark		
			· · · · · ·			
F	Apply concepts of Structural engineering to review published			V		
R	iterature on thrust research areas eview the published research on structural engineering to			V		
Pe	entify research directions prorm experimental and computational investigation to			~		
ext	plore possibilities of performance improvement					
	5: Modern tool usage:					
Use	modern computer tools for structural analysis and design			1		
1	ity to understand limitations and capabilities of available lern tools			4	Page 1 of 2	



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	Alumni Surv	eyren	3		
	PO6: Collaborative and multidisciplinary work			T	
6	PO6: Collaborative and multidiscip			V	
	activities related to		_		
	Participate actively to execute group activities structural engineering through meaningful dialog with peers.			10	
	structural engineering three and ongineering related				
	Ability to seek solutions to structural engineering problems while working collaboratively in multidisciplinary		_		1
				· .	1.1
-	teams PO7:Project management and finance				
7				1	1
	Develop activity charts for project execution with due				
	in an financial aspects of the engineering P				
	Perform economic analysis of structural engineering projects to				-
	check plan and monitor its implementation			1	
3	PO8: Communication			11	
	Ability to make written communication on structural.				
	engineering related topics following the specified format				1
)	PO9: : Lifelong learning	1			
	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				1
	and skill sets for professional growth.				1
0	PO10: Ethical practices and social responsibility				1
	Make ethical decisions while discharging professional duties			1.	
	with due considerations of social responsibilities				
	Explain technology impact on society due to project execution			/	t
	for a sustainable solution to energy issue.				
1	PO11: Independent and reflective learning				
	Ability to self assess performance and evaluate the implications		1	1	1
	of a specified decision to an assigned task				
	s				
	Indicate your Answor with symbol "A"	in the annrantist			L
	Indicate your Answer with symbol "A"				
Ho	ow would you rate your overall satisfaction with your preparation	on to become an en	gineer?		
				de com	4
	Not Satisfied Little Satisfied Satisfied	Verv S	atisfied		
Ing	general, the department has provided a quality ac	ademic program?			
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Head of the department/School : Structural Engineering

S.No. 1 2 3 4 5 NA Qualities 1 Ability to apply structural engineering principles for analysis P and design of structural engineering systems Ability to develop, evaluate and interpret issues on structural 2 engineering through recent advances in the field 3 Analyze complex structural engineering problems by applying Π Π 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 6 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 0

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



	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					0	
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.		
16	Explain technology impact on society due to project execution for a sustainable solution to energy issue.	P					
17	An ability to apply design and development principles in the construction of software systems of varying complexity.			• □ •			

Space for comments:

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Address: 'Geen di Naque, Thimuy,	
Name of the contact person: Sweethin M	
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S.No.	Qualities	1	2	3	4	5	NA
1	Ability to apply structural engineering principles for analysis and design of structural engineering systems		ĊL.			V	
2	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field					0	
3	Analyze complex structural engineering problems by applying independent judgment.			۵			
4	Make intellectual advances for conducting theoretical and practical research				0		
5	Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system components for specified performance.	Ο.				\checkmark	
6	Formulate and solve structural engineering problems taking into consideration public health, socio-cultural issues and environment constraints in the obtained solution				V		
7	Apply concepts of Structural engineering to review published literature on thrust research areas				V		
8	Demonstrate an understanding of professional engineering regulations, legislation and standards		۵			V	
9	Review the published research on structural engineering to identify research directions		[]	D		V	
10	Ability to understand limitations and capabilities of available modern tools		a	D		V	



Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams Perform economic analysis of structural engineering projects to check plan and monitor its implementation					, □	
		` п				
	h.			2		
Demonstrate competence in listening, speaking, and presentation		_{ф.} П		P		
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					P	
Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	•□				U	
Explain technology impact on society due to project execution for a sustainable solution to energy issue.					U	
An ability to apply design and development principles in the construction of software systems of varying complexity.	0.			0		
	presentation 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 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 Explain technology impact on society due to project execution for a sustainable solution to energy issue. An ability to apply design and development principles in the	presentation Image: presentation in the presentation is presented in the presente	presentation 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 Image: Im	presentation 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 Image: Im	presentation 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 Image: Im	presentation 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 Image: Context of technological change 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 Image: Context of technological change Explain technology impact on society due to project execution for a sustainable solution to energy issue. Image: Context of technological change Image: Context of technological change

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Address: Mandy	٥			
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Head of the department/School : Structural Engineering

S.No.	Qualities	1	2	3 -	4	5	NA
1	Ability to apply structural engineering principles for analysis and design of structural engineering systems		, ' D			0.	
2	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field			. 🗆		0	
3	Analyze complex structural engineering problems by applying independent judgment.		ſ.		. 0	Carl	
4	Make intellectual advances for conducting theoretical and practical research					V	
5	Obtain solution to structural engineering related problems by analytical and numerical approaches leading to design of system components for specified performance.					V	
6	Formulate and solve structural engineering problems taking into consideration public health, socio-cultural issues and environment constraints in the obtained solution		0, .	, D .			
7	Apply concepts of Structural engineering to review published interature on thrust research areas				V		
8	Demonstrate an understanding of professional engineering regulations, legislation and standards				V		
9	Review the published research on structural engineering to identify research directions				\checkmark	D	
10	Ability to understand limitations and capabilities of available modern tools	D	0	~			

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



	Qualities	1	2	3	4	5	NA
11	Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams		[]	C	. Ū	0	
12	Perform economic analysis of structural engineering projects to check plan and monitor its implementation	α.	Ö		[]	10/	
13	Demonstrate competence in listening, speaking, and presentation			٥		U	
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	, 🗆	
15	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change				U		
16	Explain technology impact on society due to project execution for a sustainable solution to energy issue.	Ο,		9		P	,
17	An ability to apply design and development principles in the construction of software systems of varying complexity.	````C	, D	: 0	. 0	L.	

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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	Q	° 17	Ð	V	C	N 272 - 555 - 567 - 567 - 567 - 567 - 567 - 567 - 567 - 567 - 567 - 567 - 567 - 567 - 567 - 567 - 567 - 567 - 5
12	Perform economic analysis of structural engineering projects to check plan and monitor its implementation	Û	Ø	Ø	e	0	
13	Demonstrate competence in listening, speaking, and presentation		D,	Ø	Ø	C	
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	f.)	D	Ø	Ø	e	
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	D	0	٥,	D	
16	Explain technology impact on society due to project execution for a sustainable solution to energy issue.	σ.	٥	0,	6	D	
17	An ability to apply design and development principles in the construction of software systems of varying complexity.	۵	Ø	۵	σ	0	

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Name of the contact person: Chaipa Mornal	
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1

S.No.	Qualities	1	2	3	4	5	NA
1	Ability to apply structural engineering principles for analysis and design of structural engineering systems					5	
2	Ability to develop, evaluate and interpret issues on structural engineering through recent advances in the field					6	
3	Analyze complex structural engineering problems by applying independent judgment.					<u> </u>	
4	Make intellectual advances for conducting theoretical and practical research	·				6	
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					V	
7	Apply concepts of Structural engineering to review published literature on thrust research areas	0				U	
8	Demonstrate an understanding of professional engineering regulations, legislation and standards	. 0	. []			e	
9	Review the published research on structural engineering to identify research directions			0		V	
10	Ability to understand limitations and capabilities of available modern tools					0	



	Qualities	_1	2	3	4	5	NA
11	Ability to seek solutions to structural engineering related problems while working collaboratively in multidisciplinary teams					r	
12	Perform economic analysis of structural engineering projects to check plan and monitor its implementation					ł	-
13	Demonstrate competence in listening, speaking, and presentation			۵	P		
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		Ģ.		U		
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					e	
16	Explain technology impact on society due to project execution for a sustainable solution to energy issue.					P	
17	An ability to apply design and development principles in the construction of software systems of varying complexity.			D	10		

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Creating Value Leveraging Knowledge _

School of Civil Engineering

CIRCULAR

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

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

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

III/IV semester courses for the Batch 2017-21

V/VI semester courses for the Batch 2016-20

VII/VIII semester courses for the Batch 2015-19

BOS Coordinator

- 1. Dr. S.S. Bhavikatti, Professor, KLE Tech.
- 2. Dr. M.V. Chitawadagi, Professor, KLE Tech.
- 3. Prof. G.C. Bellad, Associate Professor, KLE Tech.
- 4. Dr. M.R. Patil, Associate Professor, KLE Tech.
- 5. Prof. S.A. Hullur, Associate Professor, KLE Tech.
- 6. Prof. L.R. Basavaraja, Associate Professor, KLE Tech.
- 7. Dr. L.J. Pol, Professor, KLE Tech.
- 8. Dr. V.B. Patil, Professor, KLE Tech.
- 9. Prof. V.P. Patil, Associate Professor, KLE Tech.
- 10. Dr. S.S. Dyavanal, Professor, KLE Tech.
- 11. Dr. S.S. Honnanagoudar, Associate Professor, KLE Tech.
- 12. Dr. A.M. Hunashyal, Associate Professor, KLE Tech.
- 13. Prof. Vijaykumar S.K, Associate Professor, KLE Tech
- 14. Prof. Gurunath Kampli, Asst. Professor, KLE Tech.
- 15. Prof. Prema Malali, Asst. Professor, KLE Tech.
- 16. Prof. Khalida M, Asst. Professor, KLE Tech.



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



EUniversity

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everaging Knowledge School of Civil Engineering

Minutes of Meeting – Pre BoS

28/03/2018

UG Courses

- Pre BOS meeting for the academic year 2018 was held on 28th March, 2018 at 3 30 PM at HOD Chamber. The following points were discussed by the faculty and were approved by the HOD to be included in the syllabus.
- 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

- 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. Uf D.
- 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.
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- 12. Dr. A.M. Hunashyal, Associate Professor, KLE Tech.



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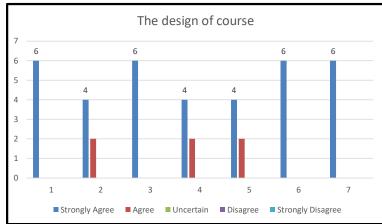
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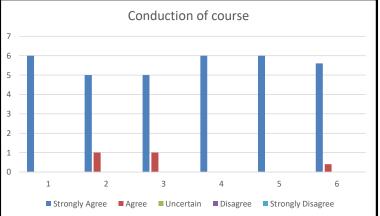
Prof. Vijaykumar S.K, Associate Professor, KLE Tech.
 Prof. Gurunath Kampli, Asst. Professor, KLE Tech.
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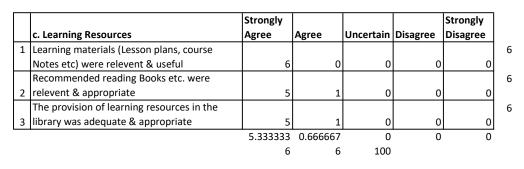
- 16. Prof. Khalida M, Asst. Professor, KLE Tech. 🌾
- 17. Prof. Nikita K., Asst. Professor, KLE Tech.
- 18. Prof. Chaitanya Akkannavar, Asst. Professor, KLE Tech.
- 19. Prof. Fatheali Shilar, Asst. Professor, KLE Tech.
- 20. Prof. ShashwathNanjannavar, Asst. Professor, KLE Tech.
- 21. Prof. ShivarajHalyal, Asst. Professor, KLE Tech. 55
- 22. Prof. Basanagouda Patil, Asst. Professor, KLE Tech.
- 23. Prof. Roopa Kuri, Asst. Professor, KLE Tech.

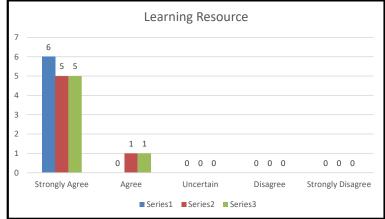
		Strongly				Strongly
a. The Design of	the course	Agree	Agree	Uncertain	Disagree	Disagree
1 The course object	tives were clear	6	0	0	0	0
The course conte	nts met with your					
2 expectation		4	2	0	0	0
3 The course work	load was manageable	6	0	0	0	0
The lecture sequ	ence was well planned to					
4 meet learning ou	tcomes	4	2	0	0	0
The contents we	e illustrated with adequate					
5 examples		4	2	0	0	0
The course expo	ed you to new knowledge					
6 and practice		6	0	0	0	0
7 The level of the d	ourse was moderate	6	0	0	о	o
		5.142857	0.857143	. 0	0	. 0
SUM of Avg		6	6	100		

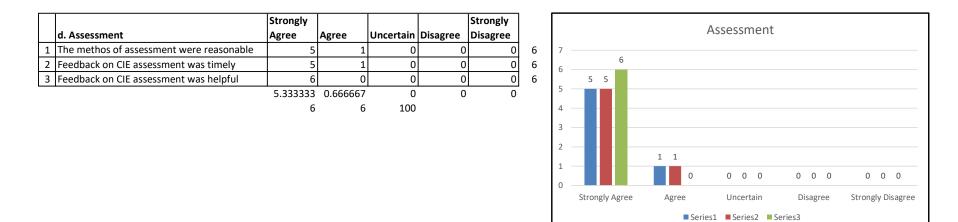


	b. The conduct of the course	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree	
	The conduct were easy to understand & ideas						
1	and concepts presented clearly	6	0	0	0	0	6
2	The teaching aids were effective used	5	1	0	0	0	6
3	The curse material handed out was adequate	5	1	0	0	0	6
4	Were objectives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







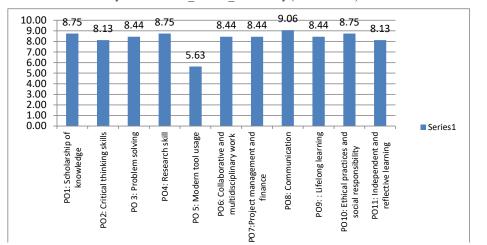


COMMENTS:

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

	Competencies	Level of Competency				
SU	Number	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

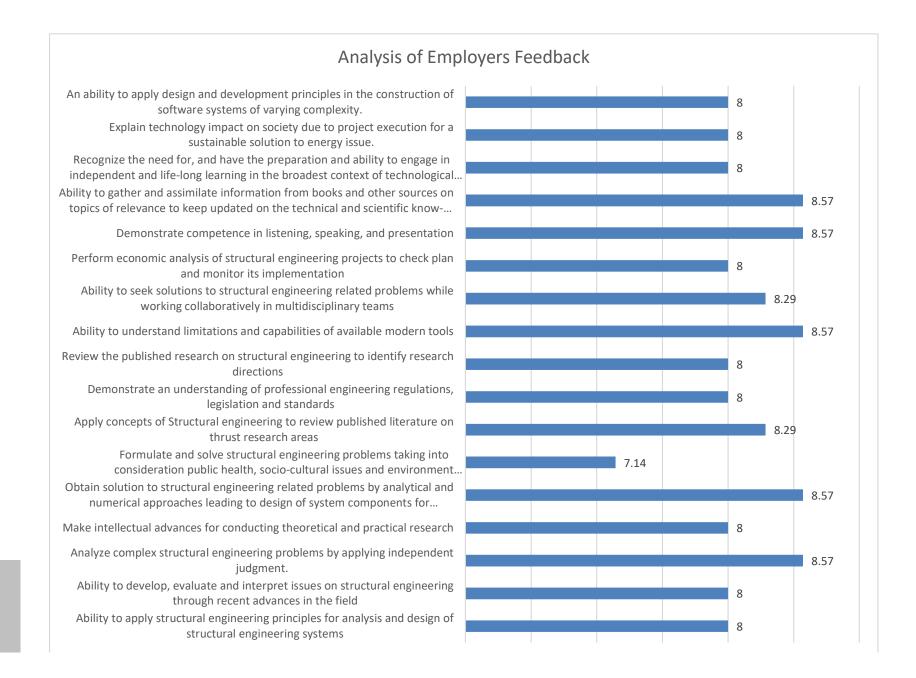
Alumini_Student_Exit Survey (2017 Passout)



Analysis Of Alumini_Student_Exit Survey (2017 Passout)

Employers Feed back (2018-19)

	Qualities		Lev	el of Co	mpeten	cy		Total
	SI Number	l (Low	(Average	l (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		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	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	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



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 of composite materials. Alumni Feedback:	PO 1 PO 4 PO 5		
According to data collected from the alumni, improvement was needed in the c Tool Usage (PO 5).	Course Revised/ Added	BoS approved Date	
 New course entitled "Advance Material Science" is introduced in 3rd semester students. In the above course, pedagogical assessment for ISA (In Semester Assessment) evaluation is modified by introducing course seminar. 	07/04/2018		
 New laboratory titled "Structural Simulation Laboratory" (2 credits) based on ABAQUS software is introduced in the second semester. One day Hands On training on 'ABAQUS' software is introduced. 	Structural simulation Laboratory (18ECEP701)) 07/04/2018	

Kelle Professor & Head School of Civil & Environmental Engineering KLE Technological University Hubballi

REGISTRAR KLE Technological University

HUBBALLI-580 031



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.

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- 8. Dr. M.V. Chitawadagi, Professor, KLE Tech.
- 9. Prof. G.C. Bellad, Associate Professor, KLE Tech.
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- 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.

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- 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. 3rdBoS meetings MOM was read and approved.
- 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.
- Changes made in Survey Practice-I (17ECVP201) and Building engineering drawing (17ECVP202) were approved.
- Scheme and syllabus of V/VI Semester's, KLE Tech. 16-20, batch was reviewed and minor changes were suggested in Transportation Engineering (15ECVC304). The overall Scheme and syllabus were approved.
- 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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- 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.

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 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.

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Course Content								
Course Code: 15ES	EC801	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 h	°S	Exam Duration: 3 hrs						

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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.

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

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.

8.Safety and environmental aspects

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

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.
- 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 L-T-P: 0-0-1 Credits: 1 ISA Marks: 80 ESA Marks: 20 Teaching Hrs: 24hrs

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