

(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		
Altal Hausain Sir	r, Mouna	N Mam		
Department/School Slechical	Name of the Teacher	Altaf Husain	Mouna N.	
Course Title Embedded Lin	lik	Course code:	Semester VII	

					Changly
a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Disagree
The course objectives were clear		1			
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		V			
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	V				
The teaching aids were effectively used		V,			
The course material handed out was adequate		\cup			
Were objectives of the course realized?	V				
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	V				
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		\sim			
Feedback on ISA assessment was helpful					

Suggestions for improvement:

1

Overall rating of the course: (\checkmark tick mark the appropriate)	
90% -100% 20% 80% - 90% 70% - 80% 60% - 70% 50% - 60% Below 50% Date: 18/8/820	Signature



(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.

- Allaf Husain Manna N	Course Teacher
Department/School_ [Cechrical & Electorisme of the Teacher_	Alley Ausain, Mouna N.
Course Title Embedded Cinera	Course code:SemesterS

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	V				
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?	V				
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	V				
Recommended reading Books etc. were relevant and appropriate	V				
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	1				
Feedback on ISA assessment was helpful	V				
uggestions for improvement:		1			1

Overall rating of the course: (/ tick mark the appropriate)	
90% -100% 🗹 80% - 90% _ 70% - 80% _ 60% - 70% _ 50% - 60% _ Below 50% _ Date: 24/42036	Uday Signature



(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.

Altal Husain Mouna Narallani	Course Teacher
Department/School EEE Name of the Teacher	Altaf Husain Mouna Naravani
Course Title Embedded Linux	Course code:Semester

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				
The course work load was manageable					
The lecture sequence was well planned to meet learning outcomes					
The contents were illustrated with adequate examples	V				
The course exposed you to new knowledge and practice					
The level of the course was moderate	i				

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

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		V			

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

)
Overall rating of the course: (/ tick mark the appropriate)	
90% -100% 🔽 80% - 90% 🦳 70% - 80% 🦳 60% - 70% 🦳 50% - 60% 🦳 Below 50% 🗌 Date: 🞾 🖉 2028	Astay n Signature



(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 reading	
ALTAF HUSATN	MOUNA N		
Department/School EEE	Name of the Teacher	ALTAF HUSAIN	MOUNHN
Course Title EMBEDDED L	LNUX	Course code:Se	mester 08

	Strongly	Agree	Uncertain	Disagree	Strongly
a. The design of the course	agree				Disch
	~				
The course objectives were clear	1				
The course contents met with your expectation					
The course work load was manageable	V				
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					
The level of the course was moderate					

h The conduct of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
The lectures were easy to understand & ideas and concepts presented clearly		1000			
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		5			
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		а 1			
Feedback on ISA assessment was timely			V		
Feedback on ISA assessment was helpful					

Suggestions for improvement:

Overall rating of the course: ($\sqrt{\text{tick mark the appropriate}}$)

90% -100% 80% - 90% 70% - 80% 60% - 70% 50% - 60% Date: / €/𝒯 20**29** Below 50%





Dear Students,

(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.

Alter Horsian	Mouna	Nar Vanni Course Teacher	
Department/School $\underline{\mathcal{EEE}}$	Name of the	Teacher Altab +1.	
Course Title <u>Em bedded</u>	Linux	Course code/16(EBH0 Semester_	08

a. The design of the course	Strongly	Agree	Uncertain	Disagree	Strongly
The course objectives were clear	agree				Disagree
The course contents met with your expectation		1/			
The course work load was manageable	1/				
The lecture sequence was well planned to meet learning outcomes		V			
The contents were illustrated with adequate examples		1/			
The course exposed you to new knowledge and practice	V				
The level of the course was moderate	V				

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

c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly
Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful	V	2			Disagree
Recommended reading Books etc. were relevant and appropriate					
The provision of learning resources in the library was adequate and appropriate	V				

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

Overall rating of the course: (I tick mark the appropriate))
90% -100% 2 80% - 90% 70% - 80% 60% - 70% 50% - 60% Below 50% Date: 20/1/2030	DSB Senature





Alumni Survey Form

Dear proud alumni,

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

Regards,

Head of the department/School $\Sigma \mathcal{E} \mathcal{G}$

5.No	Competencies	Level of Competency				
5		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied	
1	Engineering knowledge :	L	1			
-	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems			A		
2	Problem analysis:			1		
	Ability to identify, characterize and formulate a solution plan for solving engineering problems			A		
	Ability to execute a solution process and analyse results			A		
3	Design/Development of Solutions:		1	1		
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process			A		
4	Conduct investigations of complex problems:					
×	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems			A		
	Ability to critically analyse and interpret data to reach valid conclusions			A		
5	Ability to identify (material					
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				A	





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Alumni Survey Form

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

KLE Society's <u>Creating Value</u> <u>Leveraging Knowledge</u> <u>Leveraging Knowledge</u> <u>Leveraging Knowledge</u> <u>KLE Society's</u> B V Bhoomaraddi College of Engineering & Technology, Hubli	
Alumni Survey Form	
Indicate your Answer with symbol "A" in the appropriate box.	
 How would you rate your overall satisfaction with your preparation to become an engineer? 	
Not Satisfied Little Satisfied Satisfied Very Satisfied	
2) In general, the department has provided a quality academic program?	
Poor OK Good Very Good A	
	, ז נ
Name: Chippoqua Kalkarni Branch: Electrical & Electron	es
Batch: 20	
e-mailine. chimaya Kullarni Baginart. Corre	1
Name of the company:	;
Correspondence Address: S/O. Shankar Kulkarni, Geoord galli, Dandapur, Nargund	,
Gadag - 582207.	_
Signature:	





Alumni Survey Form

Dear proud alumni,

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

Regards,

Head of the department/School Sleetnical & Sleetnomics

S.No	Competencies	Level of Competency				
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied	
1	Engineering knowledge :					
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems			A		
2	Problem analysis:	1				
	Ability to identify, characterize and formulate a solution plan for solving engineering problems				A	
	Ability to execute a solution process and analyse results				A	
3	Design/Development of Solutions:	L		1		
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process			A		
4	Conduct investigations of complex problems:		1	``		
	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems				A	
	Ability to critically analyse and interpret data to reach valid conclusions				A	
5	Modern tool usage:					
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				A	

Page 1 of 3

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Alumni Survey Form

6	The engineer and society:		A	
	Demonstrate an understanding of professional engineering	1	9	
	regulations, legislation and standards			
7	Environment and sustainability:			
	Ability to understand the impact of the professional engineering			0
	solutions in societal and environmental contexts, and			A
	demonstrate the knowledge of, and need for sustainable			
	development			
8	Ethics:			
	Ability to apply ethical principles and commit to professional			
	ethics and responsibilities and norms of the engineering			۵
	practice			A
9	Individual and team work:			
	Ability to function effectively as an individual, and as a member			1
	or leader in diverse teams, and in multidisciplinary settings			A
				12
10	Communication:			
	Ability to comprehend technical literature and prepare effective			
	reports and design documents			
				A
	Demonstrate competence in listening, speaking, and			Δ.
	presentation			A
11	Project management and finance:			
	Demonstrate knowledge and understanding of the engineering			
	and management principles and apply these to one's own work			
	as a member and leader in a team, to manage projects and in			<u>.</u>
	multidisciplinary environments			A
				, ,
12	Life-long learning:			
	Recognize the need for, and have the preparation and ability to			
	context of technological change			A
13	Modeling and Design			, ,
	An ability to apply mathematical foundations, algorithmic			
	principles, and computer science theory in the modeling and		<u>۱</u>	
	comprehension of the tradeoffs involved in design shall	· · · · · · · · · · · · · · · · · · ·	t	
14	Construction of software system			
	An ability to apply design and development principles in the			
	construction of software systems of varying complexity.			A

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Alumni Survey Form	
Indicate your Answer with symbol "A" in the appro	priate box.
1) How would you rate your overall satisfaction with your preparation to become an e	ngineer?
Not Satisfied Little Satisfied Satisfied Very	Satisfied
2) In general, the department has provided a quality academic program	2
Poor OK Good Ver	y Good A
Name: Ageel Aalia A Shaikh	Branch: E&E
e-mailid: shaikhaqee/20/5@gmail.com	Batch: 2019-20
Name of the company:	
Correspondence Address:	
HNO. 32 Nehru Magae,	
Gadag Road, Hubli	
Signature:	

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Alumni Survey Form

Dear proud alumni,

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

Regards,

Head of the department/School Electronical & Electronics

S.No	Competencies	Level of Competency				
		Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied	
1	Engineering knowledge :		1			
	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems				A	
2	Problem analysis:					
	Ability to identify, characterize and formulate a solution plan for solving engineering problems			A		
	Ability to execute a solution process and analyse results			A	-	
3	Design/Development of Solutions:	1		1	1	
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process				A	
4	Conduct investigations of complex problems:					
	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems			A		
	Ability to critically analyse and interpret data to reach valid conclusions			A		
5	Modern tool usage:					
	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems				A	

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Alumni Survey Form

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

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Alumni Survey Form

Indicate your Answer with symbol "A" in the appropriate box.						
1) How would you rate your overall satisfaction with your preparation to become an engineer?						
Not Satisfied Little Satisfied Satisfied Very	Satisfied					
2) In general, the department has provided a quality academic program?						
Poor OK Good A Very	Good					
Name: Lexmi P Navalagi	Branch: EZE					
e-mail id: larminarralagi@gmail. Com	Batch: 2020					
Name of the company:						
Correspondence Address: Lavern: Prakash Marealogi trumbar Jalli, Mudhol.						
tarnalata.						
Signature:						





Alumni Survey Form

Dear proud alumni,

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

Regards, itis Head of the department/School Electrical Level of Competency S.No Competencies **Completely Satisfied** Dissatisfied Satisfied **Completely Dissatisfied** 1 Engineering knowledge : Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for A the solution of engineering problems La 2 Problem analysis: Ability to identify, characterize and formulate a solution plan for A solving engineering problems Ability to execute a solution process and analyse results 201 A 1) Design/Development of Solutions: 3 Ability to design components, systems or processes that meet specified needs, following appropriate engineering design A process 4 Conduct investigations of complex problems: Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems A Ability to critically analyse and interpret data to reach valid conclusions A 5 Modern tool usage: Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve A engineering problems

Page 1 of 3

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Alumni Survey Form

6	The engineer and society:		
	Demonstrate an understanding of professional engineering		
-	regulations, legislation and standards		A-
/	Environment and sustainability:		
	Ability to understand the impact of the professional engineering		
	demonstrate the lunguided of the societal and environmental contexts, and		
	development		A
8	Ethics		
-			
	Ability to apply ethical principles and examine the		
	ethics and responsibilities and commit to professional		
	practice	A	
(2)	practice		
9	Individual and toom work		
	<u></u>		
	Ability to function effectively as an individual		
	or leader in diverse tooms, and is a high wide and as a member		
	and in multidisciplinary settings		٨
10	Communication:		Ð
	Ability to comprehend technical literature and		
	reports and design documents		
			Δ
	Demonstrate competence in listoning and li		A
	presentation and		
11	Project management and finance:		A
	Demonstrate knowledge and understanding of the engineering		
	and management principles and apply these to one's own work		
	as a member and leader in a team, to manage preject		
	multidisciplinary environments	A	
	, and an and a second sec		
12	Life-long learning:		
	Recognize the need for, and have the preparation and ability of		
	engage in independent and life-long learning in the broadest		
10	context of technological change		Δ
13	Modeling and Design		K)
	An ability to apply mathematical foundations, algorithmic		
	principles, and computer science theory in the modeling and		
	design of computer-based systems in a way that demonstrates		٨
14	comprenension of the tradeoffs involved in design choices.		th th
17	Construction of software system		
	An ability to apply design and development principles in the		
	construction of software systems of varying complexity.		Δ
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KLE Technological KLE Soc Creating Value Leveraging Knowledge Leveraging Knowledge Alumni Survey Form	iety's boomaraddi College of ering & Technology, Hubli						
Indicate your Answer with symbol "A" in the appro	priate box.						
1) How would you rate your overall satisfaction with your preparation to become an e	ngineer?						
Not Satisfied Little Satisfied Satisfied Very	Satisfied A						
 In general, the department has provided a quality academic program? 							
Poor OK Good Very	Good A						
Name: Divya Badiger	Branch: SeE						
e-mail id: divyabadiger000@gmail.com	Batch: 2016 to 2020						
Name of the company:							
Correspondence Address: Chandrashekhar Badiger Nava Ayodha Nagar, Nkar Godke Factory, Old-Thibli, - HINDLi, 580024.							
Signature:							

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

Alumni Survey Form

Dear proud alumni,

The following are the list of skills and competencies that engineering graduates should have. We seek your participation in the Alumatic 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 o	f the department/School		evel of Cor	npetency	
S.No	Competencies	Completely Dissatisfied	Dissatisfied	Satisfied	Completely Satisfied
1	Engineering knowledge :				
8	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems				A
2	Problem analysis:				
	Ability to identify, characterize and formulate a solution plan for solving engineering problems				Ą
	Ability to execute a solution process and analyse results				A
3	Design/Development of Solutions:				
	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process				A
4	Conduct investigations of complex problems:				
	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems	-			Ą.
	Ability to critically analyse and interpret data to reach valid conclusions				Ą
5	Modern tool usage:				
	Ability to identify / create and use appropriate moder engineering and IT tools, techniques and resources to solve engineering problems	n e			A







Alumni Survey Form

6	The engineer and society:			
	Demonstrate an understanding of professional engineering regulations, legislation and standards	5		A
7	Environment and sustainability:			
	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development			Ą
8	Ethics:			
	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice			A
9	Individual and team work:			
	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings			A
10	Communication:			
	Ability to comprehend technical literature and prepare effective		T	~
	reports and design documents			A
	presentation			0
11	Project management and finance:			14
	Demonstrate knowledge and understanding of the engineering			
	and management principles and apply these to one's own work,			
	as a member and leader in a team, to manage projects and in multidisciplinary environments			A
12	Life-long learning:			
	Recognize the need for, and have the preparation and ability to			
	engage in independent and life-long learning in the broadest context of technological change			n
13	Modeling and Design			A
	An ability to apply mathematical foundations also the total			
	principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices			A
14	Construction of software system			
	An ability to apply design and development principles in the construction of software systems of varying complexity.			A

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Alumni Survey Form

Indicate your Answer with symbol "A" in the approx 1) How would you rate your overall satisfaction with your preparation to become an er Not Satisfied Little Satisfied Satisfied Very the sector of the se	ariate box. ngineer? Satisfied
2) In general, the department has provided a quality academic program. Poor OK Good Very	Good
Name: Megha Naikar e-mailid: mcghanaikar2012@gmail.com	Branch: EFFE Batch: 2019-2020
Name of the company: Correspondence Address: (10 M B Mulla, Michigan Staptapur, Dharwad - Pin-	n Compound, 580001.
Signature: Mhaileat	

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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 Steemical & Electronics

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

S.No.	Qualities	1	2	3	4	5	NA
1	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems					V	
2	Ability to identify, characterize and formulate a solution plan for solving engineering problems						
3	Ability to execute a solution process and analyze results				V		
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process					J.	
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems						
6	Ability to critically analyse and interpret data to reach valid conclusions						
7	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems						
8	Demonstrate an understanding of professional engineering regulations, legislation and standards					P	
9	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development		· 🗆				





Employers Feedback form

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Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice					V	
Qualities	1	2	3	4	5	NA
Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings						
Ability to comprehend technical literature and prepare effective reports and design documents	·	, 🗆 ,			J.	
Demonstrate competence in listening, speaking, and presentation					Ċ	
Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments						
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						
An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.						
An ability to apply design and development principles in the construction of software systems of varying complexity.					1	
-	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice Qualities Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings Ability to comprehend technical literature and prepare effective reports and design documents Demonstrate competence in listening, speaking, and presentation Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments 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 An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices. An ability to apply design and development principles in the construction of software systems of varying complexity.	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice I Qualities 1 Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings I Ability to comprehend technical literature and prepare effective reports and design documents I Demonstrate competence in listening, speaking, and presentation I Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments I Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change I An ability to apply mathematical foundations, algorithmic principles, and computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices. I An ability to apply design and development principles in the construction of software systems of varying complexity. I	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice Qualities 1 2 Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings Ability to comprehend technical literature and prepare effective reports and design documents Demonstrate competence in listening, speaking, and presentation Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments 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 An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices. An ability to apply design and development principles in the construction of software systems of varying complexity. 	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice Qualities I Z Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings Ability to comprehend technical literature and prepare effective reports and design documents Demonstrate competence in listening, speaking, and presentation Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments 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 An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices. An ability to apply design and development principles in the construction of software systems of varying complexity. I I I I I I 	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice I	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice I

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Employers Feedback form

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Head of the department/School Suchcar & Suchomics

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S.No.	Qualities	1	2	3	4	5	NA
1	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems						
2	Ability to identify, characterize and formulate a solution plan for solving engineering problems						
3	Ability to execute a solution process and analyze results						
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process				V		
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems						
6	Ability to critically analyse and interpret data to reach valid conclusions				V		
7	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems					0	
8	Demonstrate an understanding of professional engineering regulations, legislation and standards					12	
9	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development						





Employers Feedback form

10	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice					J	
	Qualities	1	2	3	4	5	NA
11	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings					UP .	
12	Ability to comprehend technical literature and prepare effective reports and design documents				U		
13	Demonstrate competence in listening, speaking, and presentation				D		
14	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments						
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17	An ability to apply design and development principles in the construction of software systems of varying complexity.					J	

space for comments: Demons that good learnability and Rave Possitive attridute to learn, Lisden and practice

Name of the organization: INFOSYS LIMIDED
Address: ELECTRONICS CITY, HOGVA ROAD, BBRGALDRE, CORD,
Name of the contact person: PRAMOD, M.V.
e-mailid: PRAMOD_MV@ INPOSYS. COM Signature: D& anod . MI





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	engineering fundamentals, and engineering specialization for the solution of engineering problems						
2	Ability to identify, characterize and formulate a solution plan for solving engineering problems					V	
3	Ability to execute a solution process and analyze results				V		
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process						
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Employers Feedback form

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17	An ability to apply design and development principles in the construction of software systems of varying complexity.					12	

Space for comments: Students are good in technical knowledge and analytical ability and also out of box thinking

Address: BANGBLONE - 180025 Name of the contact person: KATHON RAO RATHUR e-mail id: rathan. rao (a) Jay ana, in Signature: D & Kung R. P.	Name of the organization: TANAA SOFTWARE	E SOLUFIONS (1) LTD
e-mail id: rathan.var(a) Jayana, in Signature: D & Kun R. P. P.	Address: BANGALONE - 50025	
e-mail id: rathan var (a) Jay and, in Signature: 1) the Know Par P	Name of the contact person: KATHAN RAD	*PATHUR
Kairun kairer Kaar	e-mail id: rathan.vao @ Jayana, in	Signature: Rammun Kumm Raap





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9	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development				V		





Employers Feedback form

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17	An ability to apply design and development principles in the construction of software systems of varying complexity.					LP -	

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Address:
Name of the contact person: Elecon
e-mail id: bir vora. ed wind dalmin cement (om Signature: Eele oghi





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FORM ISO 9001: 2015- KLE TECH	Document #: FMTH0302	Rev: 1.2			
Title: Lesson Plan/Laboratory Plan/Laboratory Manual Review Report		Page 1 of 1			
Date:16-11-2019					

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Department: Electrical & Electronics Engineering

Course: UG / PG

V

Semester 08, EMBEDDED LINUX.

Year:2019-20

S	Name of the Lesson/	lame of the Lesson/ Laboratory Plan Sem. Subject/La			Language			Content		Hours all	otment	Corrective	
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Whether the relevant codes/standards (latest versions) were available [Mention the Lab code]? YES/NO Lab. Code(s):													

were available [Mention the Lab code]? YES/NO Comments:

Copy to - Concerned staff members

Signature of Committee Members: Albert Alusain A.M. - Others Anup Kinner Patril - H

KLE TECH.	FORM ISO 9001: 2015- KLE TECH	Document #: FMTH0302	Rev: 1.2						
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Date:16-11-2019

Course: UG / PG

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Department: Electrical & Electronics Engineering

Semester: VIII

SI.	Name of the Lesson/	0	Subject/Lab.	Language			Content			Hours allotment		Corrective
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Signature of Committee Members:



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Whether the relevant codes/standards (latest versions) were available [Mention the Lab code]? YES/NO Lab. Code(s): Comments:

Signature of Committee Members:

Copy to - Concerned staff members

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FORM ISO 9001: 2015- KLE TECH	Document #: FMTH0302	Rev: 1.2
Title: Lesson Plan/Laboratory Plan/Laboratory Manual Review Report		Page 1 of 1
	Date:16-11-2019	9
Department: Electrical & Electronics Engineering	Course: UG / P	G

Semester: VI

Year:2019-20

SI	Name of the Lesson/		Subject/Lab		Language			Content		Hours all	otment	Corrective
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Lab. Code(s):

Signature of Committee Members:

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FORM ISO 9001: 2015- KLE TECH	Document #: FMTH0302	Rev: 1.2
Title: Lesson Plan/Laboratory Plan/Laboratory Manual Review Report		Page 1 of 1

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Date:16-11-2019

Department: Electrical & Electronics Engineering

Course: UG / PG

Semester:

Year:2019-20

9	Name of the Lesson/		Subject/Lab.	Language			Content			Hours allotment		Corrective	
N	Laboratory Plan Author(s)	Sem.	Code	Poor	Adequate	Good	Poor	Adequate	Good	Unsatisfactory	Satisfactory	Measures	
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Whether the relevant codes/standards (latest versions) were available [Mention the Lab code]? YES/NO

Lab. Code(s):

Comments:

Copy to - Concerned staff members

Signature of Committee Members:



Department of Electrical & Electronics Engineering

Action report based on analysis report in Pre-BOS meeting for the batch 2019-20

Employers Feedback:

1. A course on Linux may be introduced as it is more relevant Operating System.

2. Introduce renewable energy systems as one of the electives for other branch students.

3. Embedded Linux course can be introduced because of strong market demand.

4. Introduction of a course on VLSI Circuits is preferable.

5. Enough opportunities can be created to equip students in Electrical Vehicles domain at least on simulation of EV power trains.

6. Recent campus interviews have asked questions on VLSI circuits.

7. Communication skills of the students to be improved through introducing presentation and demonstrations in the courses.

8. Provide enough opportunities for participating in competitive exams like GATE, IES, UPSC.

Teachers Feedback (Pre-BoS MoM):

1. Flexible AC Transmission Systems course to be introduced under the Vertical Modern Power and Energy Systems.

2. Wind and Photovoltaic Systems course to be introduced as Open Elective.

3. Battery Management Systems course may be introduced as Program Elective.

4. A lab course on Electric Drives and Control may be introduced.

5. A beginners course on Signal Processing such as Signals and Systems may be introduced because of frequent questions asked on this course.

Students Feedback:

1. Increase placement opportunities of Department students.

2. Problems of slow learners to be addressed.

3. Increase placement opportunities of Department students.

Alumni Feedback:

- 1. Increase focus on Embedded systems.
- 2. Department may think of introducing a course on Electric Vehicles.

3. More emphasis may be given to analyze electronic system problems through projects.

Based on all the above inputs provided by different Stakeholders, a course on Embedded Linux has been introduced as an Elective under Embedded Systems Vertical and has been approved during the BOS Meeting of 2019-20.

of the Department Electrical & Electronics Engineering KLE Technological University., HUBBALLI-31.

REGISTRAR REGISTRAR KLE Technological University



Department of Electrical & Electronics Engineering <u>Structure of Board of Studies</u> <u>5th BOS Meeting – 13th April 2019</u>

The meeting of Board of Studies in E&E Engineering is convened on Saturday 13th April 2019 to discuss & approve the following. The meeting will be held at EEE Department Computer Centre at 10.00am.

- 1. Approval for Scheme & Syllabi of 2016-20 batch for 7th & 8th semester
- 2. Approval for Scheme & Syllabi of 2017-21 batch for 5th & 6th semester
- 3. Approval for Scheme & Syllabi of 2018-22 batch for 3rd & 4th semester
- Approval for Scheme & Syllabi of 2019-23 batch for 3rd to 8th sem scheme & Syllabi of I /II semester Basic Electrical Engineering

S. No.	Category	Nomination of the Committee		Name of the Person	Signature
1	Concerned Head of the Department/ School/ Centre	Chairperson	1	Dr. A B Raju Prof. & Head, Electrical & Electronics Engg. Dept.	andigi
2	ONE Professor, ONE Associate Professor and ONE Assistant Professor from the	Members	1	Dr. S R Karnik Professor, Electrical & Electronics Engg. Dept.	A.
	Department/ School/ Centre, nominated by the Dean Academic Affairs		2	Smt. Rohini B Jyoti Associate Professor, Electrical & Electronics Engg. Dept.	1
			3	Mrs. Minal Salunke Asst. Professor, Electrical & Electronics Engg. Dept.	Maluas
3	TWO Subject experts from outside the college nominated by the Vice-	Members	1	Dr. Dambare Professor, E&E Dept., College of Engineering, Pune	
	Chancellor	5,200	2	Dr. Arjun Mudlapur Asst. Professor, E&E Dept., MIT, Manipal.	bit
4	TWO representative from industry corporate sector/ allied area relating to		1	Dr. Pavana Kumar P Director and Chief Executive Officer Simlife Electric, Bangalore	F
	placement nominated by the Vice-Chancellor	Members	2	Mr. Allahbaksh Asadullah Product Technical Architect. Infosys, Bangalore. Allahbaksh_Asadullah@infosys.com	aller
5	Co-opted Members	Members	1	Smt. Jyoti C Pattanshetti Associate Professor, Electrical & Electronics Engg. Dept.	-

BOS Members



Earlier known as B. V. B. College of Engineering & Technology

S. No.	Category	Nomination of the Committee		Name of the Person	Signature
			2	Mr. Anoopkumar Patil Asst. Professor, Electrical & Electronics Engg. Dept.	Matil
			3	Mr. Sachin Angadi Asst. Professor, Electrical & Electronics Engg. Dept.	AF
6	ONE Post-graduate meritorious alumnus nominated by the Vice-Chancellor	Member	1	Dr. Savita Angadi, Scientist- Software Specialist – Analytics, SAS Research and Development (India) Pvt. Ltd. Pune.	
7	ONE Student Member representing each of the program offered by the Department/ School/ Centre	Member	1	Shivakumar S Tariwal 8 th semester Electrical & Electronics Engg. Dept.	Shi
8	ONE Senior faculty member nominated by the concerned Head of the Department/ School/ Centre	Member	1	Ms. Anupama R Itagi Asst. Professor, Electrical & Electronics Engg. Dept.	Actag

(Dr P. G. Tewari)

DEAN ACADEMIC AFFAIRS

KLE Technological University Hubballi



Department of Electrical & Electronics Engineering

Minutes of BOS Meeting held on 13-04-2019

- 1. Scheme & Syllabus of VII/VIII Semester's, KLE Tech. 2016-20, and batch was reviewed. Following suggestions were made:
 - Switched Mode Power Conversion Introduce Flux walking/flux resetting in DC power supplies.
 - IoT Change course title as "Introduction to IoT and its applications", introduce concept of node red & prolog in chapter 5.
 - Power System Modelling, Operation and Control offered as a core course.
 - Flexible AC Transmission Systems (FACTS) Offered course in Modern Power and Energy Systems vertical.
 - Wind and PV Electrical Energy Systems Offered as an open elective.
 - Embedded Linux Offered as an elective in Embedded Systems Vertical.
- 2. Scheme and syllabus of V/VI Semester's, KLE Tech. 2017-21, batch was reviewed. Following suggestions were made:
 - Linear Integrated Circuits Introduce a lab on LIC, include Band Pass filter concepts in course & Hysteresis concepts, divide teaching hours of UNIT III chapter as 5+5, introduce PLL.
 - Power Electronics Introduce types of control strategies like space vector control.
 - Operating Systems and Embedded Systems- Introduce implementation of semaphore in the lab, Visibility of the process, ways to communicate to process, concepts of threading.
 - Electrical Machines Lab Use Mini tab tool, Introduce DOE course.
 - Electric Drives and control lab Forward and Flyback DC DC converter concepts to be dealt before conduction of experiment, SCR based converter can be part of self study.
 - MAHEES Plan Co-teaching by experts.
 - Machine Learning Deep learning with electrical perspective, crack on wind turbines, wires etc.

Following changes were made:

- Battery management system offered a course in e-mobility vertical. •
- CMOS VLSI Circuits offered course in embedded vertical. Suggested to refer book on CMOS VLSI Design by David Haris and Weste (Latest edition)

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Electrical & Electronics Engineering KLE Technological University. HUBBALLI-31.



- Scheme and syllabus of III/IV Semester's, KLE Tech. 2018-22, and batch was reviewed. Following suggestions were made:
 - 8051 microcontroller/ ARM microcontroller Introduce TI, infinion processor.
 - Maths-I Co-relate Mathematics with physical entities.
 - 8051 microcontroller Introduce RS 485 concepts.
 - Electrical Machines Discuss concepts of DC machines, Transformers and Induction machine concepts in detail, Introduction on Synchronous machines can be included, change teaching hours from 5hrs to 2hrs for Single phase Induction machines, change teaching hours from 5hrs to 8hrs for Synchronous machines, Credit structure from 3-0-0 to 4-0-0, Introduce a chapter on concepts of rotating electrical machines.
 - OOPS with C++ Change of title to OOPS using C++, Concept of headers, Smart pointers, Exception handling chapter to be dealt in earlier chapters.
 - Analog Electronics Introduce linear region, switching and cutoff region in MOSFET characteristics.
 - Digital Electronics Currently used memories to be introduced in Chapter 07.
 - Following change was made:
 - Signals & Systems Introduce this course for preparing competitive exams like GATE.
- 4. Syllabus of I/II Semester's, of Basic Electrical Engineering, KLE Tech. 2019-23, batch was reviewed and approved. Following suggestions were made: Introduce difference between IGBT, thyristor along with applications and when they can be used. Flyback converter introduce in power electronics.

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1.4.1 FEEDBACK ANALYSIS (STUDENTS). COURSE: EMBEDDED LINUX COURSE CODE: 19EEEE402. FEEDBACK FOR - 2019 -20 BATCH

SI						Strongly
No				Uncort	Disagr	Disagre
	a. The design of the	Strongly		Uncert	Disagi	Disagre
	course	agree	Agree	ain	ee	е
1						
	1. The course					
	objectives were clear	55	29	4	0	0
2	2. The course					
	contents met with					
	your expectation	61	23	4	0	0
3	3					
	3. The course work					
	load was manageable	65	21	2	0	0
	4. The lecture					1
	sequence was well	61	26	1	0	0
-	5					
	5. The contents were					
	illustrated with					
	adequate examples	66	22	0	0	0
6	6 6. The course exposed					
	you to new					
	knowledge and					
	practice	69	19	0	0	0
7	7		1			
	7. The level of the					
	course was moderate	60	28	0	0	0
	AVERAGE	62.43	24.00	1.57	0.00	0.00
-						



a. The design of the course

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	b.	. The conduct of the c	Strongly agree	Agree	Uncert ain	Disagr ee	Strongly Disagre e	
1			-0.00					
	1	. The lectures were						
	e	asy to understand &						
	lie	deas and concepts						
	F	presented clearly	85	1	2	0	0	
	2							
		2. The teaching aids						l
	ŀ	were effectively used	53	32	3	0	0	
	3	3. The course material						
		handed out was						
		adequate	49	36	2	1	0	
	4							
		4. Were objectives of						
		the course realized?	70	16	1	1	0	-
	5							
		5. The overall						
		environment in the						
		class was conducive						
L		to learning	70	17	0	1	0	_
L		AVERAGE	65.40	20.40	1.60	0.60	0.00	

b. The conduct of the course Strongly agree 🖩 Agree Incertain Disagree Strongly Disagree

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KLE TECHNOLOGICAL UNIVERSITY DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING 1.4.1 FEEDBACK ANALYSIS (STUDENTS). COURSE: EMBEDDED LINUX COURSE CODE: 19EEEE402. FEEDBACK FOR - 2019 -20 BATCH

Strongly agree

Magree

🛯 Uncertain

Disagree

				Strongly		Uncert	Disagr	Strongly Disagre
		c.	Learning Resources	agree	Agree	ain	00	oisagie
	1				rigice	un	66	е
		1.	Learning materials					
		(L	esson Plans, Course					
		N	otes etc.) were					
		Ire	elevant and useful	45	36	7	0	0
	2	2/2	. Recommended					
		r	eading Books etc.					
		1	were relevant and					
		i	appropriate	69	18	1	0	0
ſ		3	3. The provision of					
			learning resources in					
			the library was					
			adequate and					
			appropriate	51	37	0	0	0
	Γ		AVERAGI	E 55.00	30.33	2.67	0.00	0.00

			-			7
						Strongly
		Strongly		Uncert	Disagr	Disagre
	d. Assessment	agree	Agree	ain	ee	е
1	1. The method of					
	assessment were					
	reasonable	45	40	3	0	0
2	2. Feedback on ISA					
	assessment was					
	timely	49	36	3	0	0
3	3. Feedback on ISA					
	assessment was					
	helpful	53	25	10	0	0
	AVERAGE	49.00	33.67	5.33	0.00	0.00





3

53

25

10

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0.00 Head of the Lepartment Electrical & Electronics Engineering HUBBALL1-580 031 KI E Technological University.

Devices in Linux- Usor Ca

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5	5l No					Complet
			Complet			ely
			ely	Satisfie	Dissatisfi	Dissatisfi
		POS	Satisfied	d	ed	ed
	1	Engineering				
		knowledge	3	2	0	0
	2	Problem				
		analysis	2	3	0	0
	3	Design/Develo				
		pment of				
		Solutions	2	3	0	0
	4	Conduct				
		investigations				
		of complex				
		problems:	3	2	0	0
	5	Modern tool				
		usage:	5	0	0	0
	6	The engineer				
		and society:	2	3	0	0
	7					
		Environment				
		and				
		sustainability:	4	1	0	0
	8	Ethics:	3	2	0	0
	9					
		Individual and				
		team work:	5	0	0	0
	10	Communicatio				
		n:	5	0	0	0
	11	Project				
		management				
		and finance:	3	2	0	0
	12	Life-long				
		llearning:	5	0	0	



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13	Modeling and				
	Design	2	3	0	0
14	Construction of				
	software				
	system	4	1	0	0
1)	How would you				
	rate your				
	overall				
	satisfaction				
	with your	3	2	0	0
2					
	1) In general,				
	the department				
	has provided a				
	quality				
	academic				
	program?	4	1	0	0

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Sl no	Qualities	Excellent	High	Good	Average	low	Not Applicable
1	Ability to apply the knowledge of mathematics, science, engineering fundamentals, and engineering specialization for the solution of engineering problems	5	0	0	0	0	0
2	Ability to identify, characterize and formulate a solution plan for solving engineering problems	3	2	0	0	0	0
3	Ability to execute a solution process and analyze results	2	3	0	0	0	0
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process	2	3	0	0	0	0
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems	3	2	0	0	0	0
6	Ability to critically analyse and interpret data to reach valid conclusions	4	1	0	0	0	0
7	Ability to identify / create and use appropriate modern engineering and IT tools, techniques and resources to solve engineering problems	2	3	0	0	0	0
8	Demonstrate an understanding of professional engineering regulations, legislation and standards	5	0	0	0	0	0
9 e c r	Ability to understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development	2	3	0	0	0	0

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-Starting and Stopping Services -ruentinging Core and Non-critical Services - community

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							0
10	Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	2	3	0	0	0	0
11	Ability to function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	4	1	0	0	0	0
12	Ability to comprehend technical literature and prepare effective reports and design documents	3	2	0	0	0	0
13	Demonstrate competence in listening, speaking, and presentation	2	3	0	0	0	0
14	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments	5	0	0	0	0	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	3	2	0	0	0	0
16	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer- based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.	4	1	0	0	0	0
17	An ability to apply design and development principles in the construction of software systems of varying complexity.	4	1	0	0	0	0

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Course Content

Course Code: 19EEEE402	Course Title: Embedded Linux				
L-T-P: 0-0-3	Credits: 03	Contact Hrs: 03			
ISA Marks: 50	ESA Marks: 50	Total Marks: 100			
Teaching Hrs: 40		Exam Duration: 03 hrs			

Content						
Unit - 1						
Chapter 01: Introduction to Embedded Linux: A Brief History of Linux -Benefits of Linux -Acquiring and Using Linux -Examining Linux Distributions - Devices and Drives in Linux-Components: Kernel, Distribution, Sawfish, and Gnome.	4 hrs					
Chapter 02: Overview of Embedded Linux: Overview: Development-Kernel architectures and device driver model- Embedded development issues-Tool chains in Embedded Linux-GNU Tool Chain (GCC,GDB, MAKE, GPROF & GCONV)- Linux Boot process.	5 hrs					
Chapter 03: System Management and user interface: Boot sequence-System loading, sys linux, Lilo, grub-Root file system-Binaries required for system operation-Shared and static Libraries overview-Writing applications in user space-GUI environments for embedded Linux system.	5 hrs					
Unit - 2						
Chapter 04: File system in Linux: File system Hierarchy-File system Navigation -Managing the File system –Extended file systems-INODE-Group Descriptor-Directories-Virtual File systems- Performing File system Maintenance -Locating Files –Registering the File systems- Mounting and Unmounting –Buffer cache-/proc file systems-Device special files.	6 hrs					
Chapter 05: Configuration: Configuration, Compilation & Porting of Embedded Linux-Examining Shells -Using Variables -Examining Linux Configuration Script Files -Examining System Start-up Files -Creating a Shell Script.	4 hrs					
Chapter 06: Process management and Inter process communication: Managing Process and Background Processes -Using the Process Table to Manage Processes -Introducing Delayed and Detached Jobs - Configuring and Managing Services -Starting and Stopping Services -Identifying Core and Non-critical Services -Configuring Basic Client Services -Configuring Basic Internet Services –Working with Modules. IPC-Benefits of IPC- Basic concepts-system calis-creating pipes-creating a FIFO-FIFO operations-IPC identifiers-IPC keys-IPCS commands- Message queues-Message buffer-Kernel Ring Buffer semaphores-semtools-shared memory semtools- signals-sockets.	8 hrs					
Unit - 3						
Chapter 07: Linux device drivers: Devices in Linux- User Space Driver APIs- Compiling, Loading and Exporting- Character Devices- Tracing and Debugging- Blocking and Wait Queues- Accessing Hardware- Handling Interrupts- Accessing PCI hardware- USB Drivers- Managing Time- Block Device Drivers- Network Drivers- Adding a Driver to the Kernel Tree.	8 hrs					

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