KLE Technological University
Creating Value
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Course Feedback

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

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher: Altaf Husain Sir, Mouna N Mam

Department/School: Electrical Name of the Teacher: Altaf Husain, Mouna N.

Course Title: Embedded Linux Course code: 19EEE402 Semester: VIII

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

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

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

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

Suggestions for improvement:

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

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

Date: 18/8/2020

Signature

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Course Feedback

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

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher: Alaf Husain, Meena N.

Department/School: Electrical & Electronics Name of the Teacher: Alaf Husain, Meena N.

Course Title: Embedded Linux Course code: 19EEE401 Semester: 8

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

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

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

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

Suggestions for improvement:

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

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

Date: 21/9/2020

Uday
Signature

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Course Feedback

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

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher: Altaf Husain, Mouna Naraveni

Department/School: EEE Name of the Teacher: Altaf Husain, Mouna Naraveni

Course Title: Embedded Linux Course code: 19EEE402 Semester: 08

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

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

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

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

Suggestions for improvement:

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

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

Date: 20/8/2018

Signature

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Course Feedback

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

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Course Teacher ALTAF HUSAIN, MOUNA N

Department/School EEE Name of the Teacher ALTAF HUSAIN, MOUNA N

Course Title EMBEDDED LINUX Course code: 19EEEE402 Semester 08

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

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

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

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

Suggestions for improvement:

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

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

Date: 13/8/2020

Signature

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Course Feedback

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

Dear Students,

Please give us your views on this Course so that the course quality can be improved. You are encouraged to be frank and constructive in your comments.

Altaf Hussain, Meena Narvani — **Course Teacher**

Department/School EEE Name of the Teacher Altaf H.

Course Title Embedded Linux Course code 18EE8HU3 Semester 08

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

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

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

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

Suggestions for improvement:

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

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

Date: 20/1/2020

DSB
Signature

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

Dear proud alumni,

Alumni Survey Form

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

Regards,
Head of the department/School ECE

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

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B V Bhoomaraddi College of Engineering & Technology, Hubli

Alumni Survey Form

6	**The engineer and society:**				
	Demonstrate an understanding of professional engineering regulations, legislation and standards			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				A
	Demonstrate competence in listening, speaking, and presentation				A
11	**Project management and finance:**				
	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments				A
12	**Life-long learning:**				
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change				A
13	**Modeling and Design**				
	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.			A	
14	**Construction of software system**				
	An ability to apply design and development principles in the construction of software systems of varying complexity.			A	

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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 [A] Very Satisfied [ ]

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

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

Name: Chinmaya Kulkarni	Branch: Electrical & Electronics
e-mail id: chimayakulkarni18@gmail.com	Batch: 2020
Name of the company: —	
Correspondence Address: S/O. Shankar Kulkarni, Second Galli, Dandapur, Nargund Gadag - 582207.	
Signature:	

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B V Bhoomaraddi College of Engineering & Technology, Hubli

Alumni Survey Form

Dear proud alumni,

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

Regards,
Head of the department/School Electrical & Electronics

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

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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				A
	Demonstrate competence in listening, speaking, and presentation				A
11	**Project management and finance:**				
	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments				A
12	**Life-long learning:**				
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change				A
13	**Modeling and Design**				
	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.			A	
14	**Construction of software system**				
	An ability to apply design and development principles in the construction of software systems of varying complexity.				A

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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 [A]

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

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

Name: Aqeel Aalia A Shaikh	Branch: E&E
e-mail id: shaikhaqeel2015@gmail.com	Batch: 2019-20
Name of the company:	
Correspondence Address: H. No. 32, Nehru Nagar, Gadag Road, Hubli	
Signature:	

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B V Bhoomaraddi College of Engineering & Technology, Hubli

Alumni Survey Form

Dear proud alumni,

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

Regards,
Head of the department/School Electrical & Electronics

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

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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				A
	Demonstrate competence in listening, speaking, and presentation				A
11	**Project management and finance:**				
	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments			A	
12	**Life-long learning:**				
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change				A
13	**Modeling and Design**				
	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.			A	
14	**Construction of software system**				
	An ability to apply design and development principles in the construction of software systems of varying complexity.				A

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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 [A] Very Satisfied [ ]

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

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

Name: Laxmi P Narealagi	Branch: E&E
e-mail id: laxminarealagi@gmail.com	Batch: 2020
Name of the company:	
Correspondence Address: Laxmi Prakash Narealagi Kumbar galli, Mudhol.. Karnataka.	
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 Electrical

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

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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				A
	Demonstrate competence in listening, speaking, and presentation				A
11	**Project management and finance:**				
	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments			A	
12	**Life-long learning:**				
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change				A
13	**Modeling and Design**				
	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.				A
14	**Construction of software system**				
	An ability to apply design and development principles in the construction of software systems of varying complexity.				A

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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 [A]

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

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

Name: Divya Badiger	Branch: E&E
e-mail id: divyabadiger000@gmail.com	Batch: 2016 to 2020
Name of the company:	
Correspondence Address: Chandrashekhar Badiger Nava Ayodha Nagar, Near Godke Factory, Old Hubli, Hubli, 580024.	
Signature: DC Badiger	

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Engineering & Technology, Hubli

Alumni Survey Form

Dear proud alumni,

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

Regards,
Head of the department/School

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

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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				A
	Demonstrate competence in listening, speaking, and presentation				A
11	**Project management and finance:**				
	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments				A
12	**Life-long learning:**				
	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change				A
13	**Modeling and Design**				
	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.				A
14	**Construction of software system**				
	An ability to apply design and development principles in the construction of software systems of varying complexity.				A

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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 [A]

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

Poor ☐ OK ☐ Good ☐ Very Good [A]

Name: Megha Naikar	Branch: ~~EEE~~
e-mail id: meghanaikar2012@gmail.com	Batch: 2019-2020
Name of the company:	
Correspondence Address: C/o M B Mulla, Michigan Compound, Saptapur, Dharwad - Pin-580001.	
Signature: MNaikar	

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

Employers Feedback form

Dear Sir,

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Regards,

Head of the department/School ✓
Electrical & 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	☐	☐	☐	☐	☑	
2	Ability to identify, characterize and formulate a solution plan for solving engineering problems	☐	☐	☐	☐	☑	
3	Ability to execute a solution process and analyze results	☐	☐	☐	☑	☐	
4	Ability to design components, systems or processes that meet specified needs, following appropriate engineering design process	☐	☐	☐	☐	☑	
5	Ability to conduct investigations or tests through design of experiments to understand and solve engineering problems	☐	☐	☐	☐	☑	
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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	☐	☐	☐	☐	☑	

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15	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	☐	☐	☐	☑	☐	
16	An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.	☐	☐	☐	☐	☑	
17	An ability to apply design and development principles in the construction of software systems of varying complexity.	☐	☐	☐	☐	☑	

Space for comments:

- Students are good and have high Drive for Results
- Recension of students are good.

Name of the organization: TATA MOTORS LIMITED

Address: INDUSTRIAL ESTATE, DHARWAD

Name of the contact person: Sandeep Mantri

e-mail id: sandeep.mantri@tatamotors.com

Signature: Mantri

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Space for comments: Demonstrate good learnability and have positive attidute to learn, Listen and practice

Name of the organization: INFOSYS LIMITED

Address: ELECTRONICS CITY, HOSUR ROAD, BANGALORE - 560100

Name of the contact person: PRAMOD. M.V.

e-mail id: PRAMOD_MV@INFOSYS.COM

Signature: P.Pramod. MV

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EEE

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Space for comments:

Students are good in technical knowledge and analytical ability and also out of box thinking

Name of the organization: TAYANA SOFTWARE SOLUTIONS (P) LTD

Address: BANGALORE - 560025

Name of the contact person: RATHAN RAO KAPATHUR

e-mail id: rathan.rao@tayana.in

Signature: Rathan Kumar Rao K.

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Space for comments:

Name of the organization: Dalmia Cements (B) Ltd

Address:

Name of the contact person: Edwin

e-mail id: birora.edwin@dalmiacement.com

Signature:

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KLE TECH.	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

Department: Electrical & Electronics Engineering

Course: UG ✓ / ~~PG~~

Semester: 08, EMBEDDED LINUX.

Year:2019-20

Sl. No	Name of the Lesson/ Laboratory Plan Author(s)	Sem.	Subject/Lab. Code	Language			Content			Hours allotment		Corrective Measures
				Poor	Adequate	Good	Poor	Adequate	Good	Unsatisfactory	Satisfactory	
1	Altaf Husain A.M.	08	19EEE									No Corrections
	Mouna N.	08	E-402		✓			✓			✓	since subject
	Anup Kumar Patil	08										introduced for
												first time.

*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:

Altaf Husain A.M. -

Anup Kumar Patil -

KLE TECH.	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

Department: Electrical & Electronics Engineering

Course: UG / PG

Semester: VIII

Year:2019-20

Sl. No	Name of the Lesson/ Laboratory Plan Author(s)	Sem.	Subject/Lab. Code	Language			Content			Hours allotment		Corrective Measures
				Poor	Adequate	Good	Poor	Adequate	Good	Unsatisfactory	Satisfactory	
1	[redacted] AI	VIII	17EE[redacted]402			✓			✓		✓	-

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

Comments:

- NO changes -

Copy to - Concerned staff members

Signature of Committee Members:

KLE TECH.	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

Department: Electrical & Electronics Engineering

Course: UG / PG

Semester: VI

Year:2019-20

Sl. No	Name of the Lesson/ Laboratory Plan Author(s)	Sem.	Subject/Lab. Code	Language			Content			Hours allotment		Corrective Measures
				Poor	Adequate	Good	Poor	Adequate	Good	Unsatisfactory	Satisfactory	
1	A B Raju &	6th	Electric		✓			✓			✓	Subject
	Gurubasu Hombal		drives &									Code is
			Control									changed
			19EEEC302									from 2-0-1
												to 3-0-0

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

Comments:

Signature of Committee Members:

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KLE TECH.	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

Department: Electrical & Electronics Engineering

Course: UG / PG

Semester: VI

Year:2019-20

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				Poor	Adequate	Good	Poor	Adequate	Good	Unsatisfactory	Satisfactory	
1)	Shweta K	VI	BMS			✓			✓		✓	Introduced for the first time
2.	A.B. Raju.		19EEEE302									

*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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Title: Lesson Plan/Laboratory Plan/Laboratory Manual Review Report			Page 1 of 1

Date:16-11-2019

Department: Electrical & Electronics Engineering

Course: UG / PG

Semester:

Year:2019-20

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1.	Sachin Angadi	VI	(19EEEP302)			✓			✓		✓	
	A. B. Rajn.		Electric									
			Drives &									
			Control									
			Lab									

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Comments:

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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.

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

REGISTRAR
KLE Technological University
HUBBALLI-580 031

Department of Electrical & Electronics Engineering

Structure of Board of Studies

5th BOS Meeting – 13th April 2019

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
4. Approval for Scheme & Syllabi of 2019-23 batch for 3rd to 8th sem scheme & Syllabi of I /II semester Basic Electrical Engineering

BOS Members

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.	
2	ONE Professor, ONE Associate Professor and ONE Assistant Professor from the Department/ School/ Centre, nominated by the Dean Academic Affairs	Members	1	Dr. S R Karnik Professor, Electrical & Electronics Engg. Dept.	
			2	Smt. Rohini B Jyoti Associate Professor, Electrical & Electronics Engg. Dept.	—
			3	Mrs. Minal Salunke Asst. Professor, Electrical & Electronics Engg. Dept.	
3	TWO Subject experts from outside the college nominated by the Vice-Chancellor	Members	1	Dr. Dambare Professor, E&E Dept., College of Engineering, Pune	—
			2	Dr. Arjun Mudlapur Asst. Professor, E&E Dept., MIT, Manipal.	
4	TWO representative from industry corporate sector/ allied area relating to placement nominated by the Vice-Chancellor	Members	1	Dr. Pavana Kumar P Director and Chief Executive Officer Simlife Electric, Bangalore	
			2	Mr. Allahbaksh Asadullah Product Technical Architect. Infosys, Bangalore. Allahbaksh_Asadullah@infosys.com	
5	Co-opted Members	Members	1	Smt. Jyoti C Pattanshetti Associate Professor, Electrical & Electronics Engg. Dept.	—

S. No.	Category	Nomination of the Committee		Name of the Person	Signature
			2	Mr. Anoopkumar Patil Asst. Professor, Electrical & Electronics Engg. Dept.	
			3	Mr. Sachin Angadi Asst. Professor, Electrical & Electronics Engg. Dept.	
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 8th semester Electrical & Electronics Engg. Dept.	
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.	

(Dr P. G. Tewari)

DEAN ACADEMIC AFFAIRS

KLE Technological University Hubballi

KLE Technological University

Creating Value
Leveraging Knowledge

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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3. 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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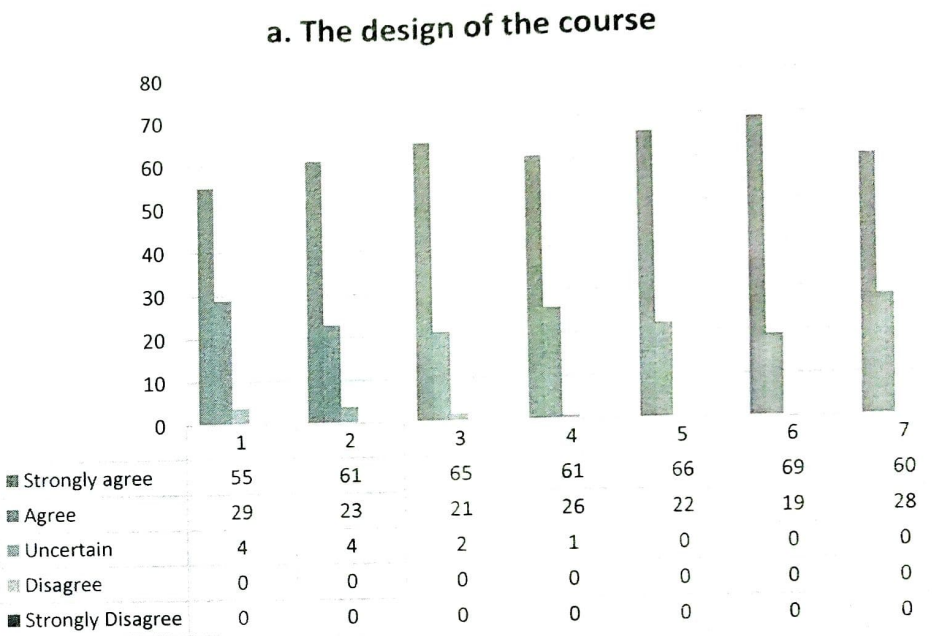
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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

Sl No	a. The design of the course	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
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. The course work load was manageable	65	21	2	0	0
4	4. The lecture sequence was well	61	26	1	0	0
5	5. The contents were illustrated with adequate examples	66	22	0	0	0
6	6. The course exposed you to new knowledge and practice	69	19	0	0	0
7	7. The level of the course was moderate	60	28	0	0	0
	AVERAGE	62.43	24.00	1.57	0.00	0.00



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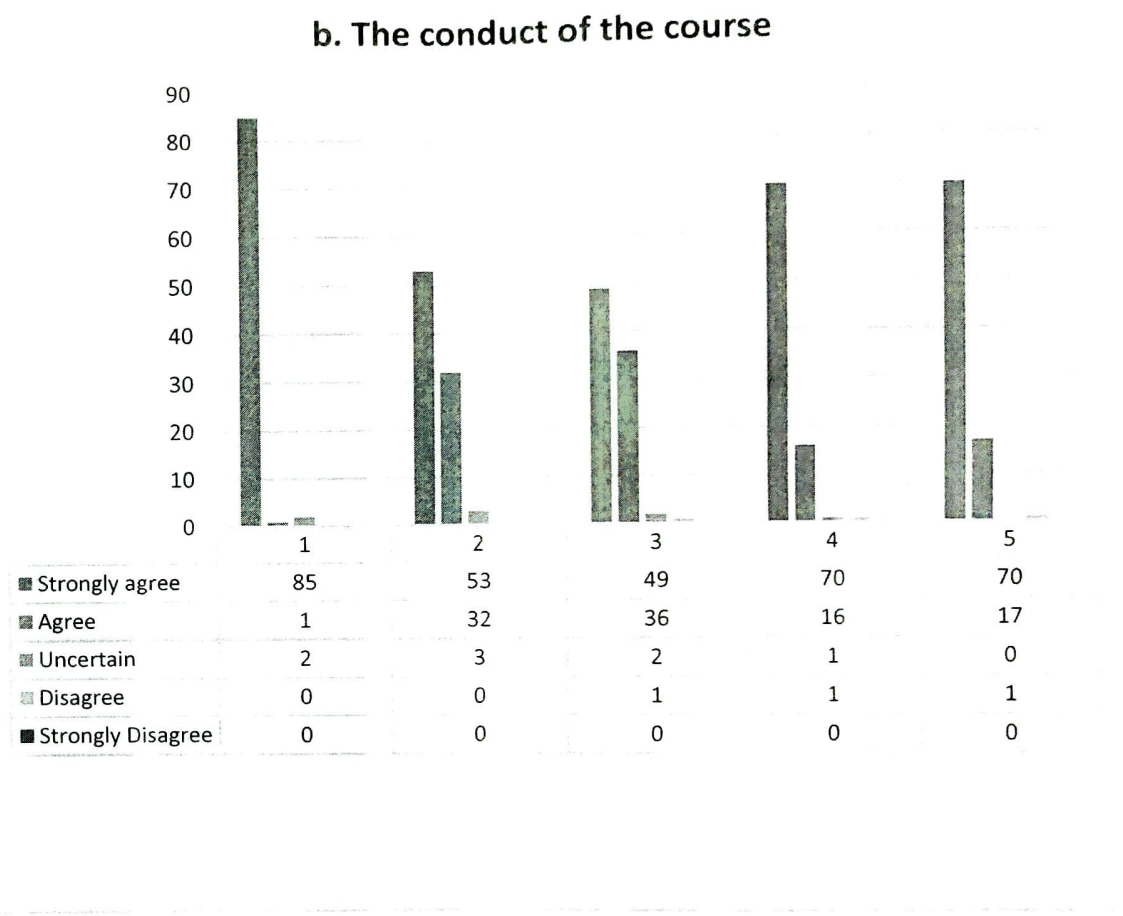
1.4.1 FEEDBACK ANALYSIS (STUDENTS). COURSE: EMBEDDED LINUX COURSE CODE: 19EEEE402. FEEDBACK FOR - 2019 -20 BATCH

	b. The conduct of the c	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
1	1. The lectures were easy to understand & ideas and concepts presented clearly	85	1	2	0	0
2	2. The teaching aids 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 to learning	70	17	0	1	0
	AVERAGE	65.40	20.40	1.60	0.60	0.00



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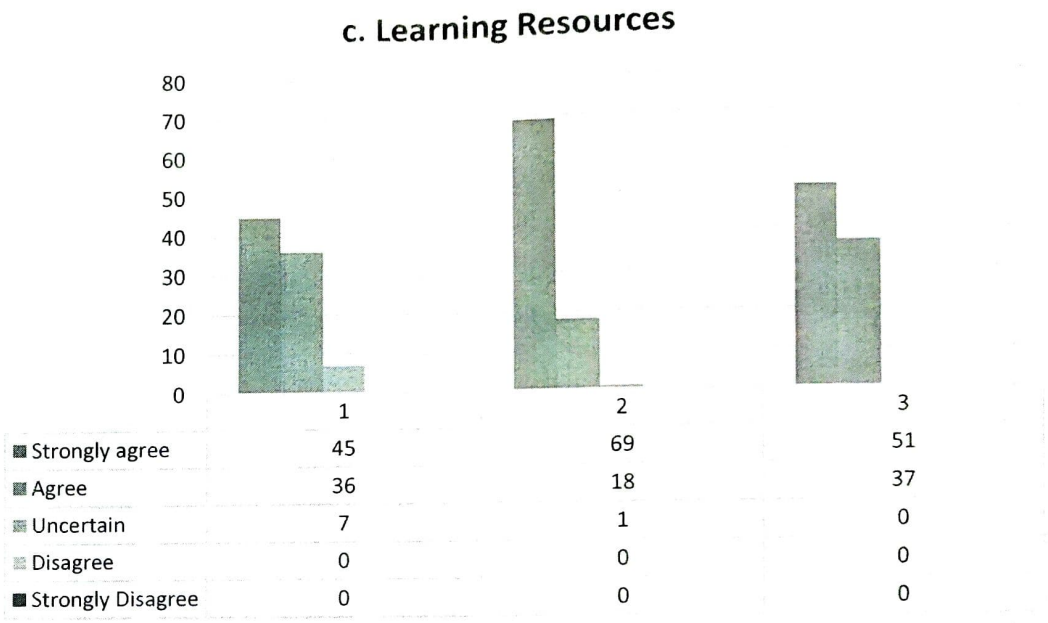
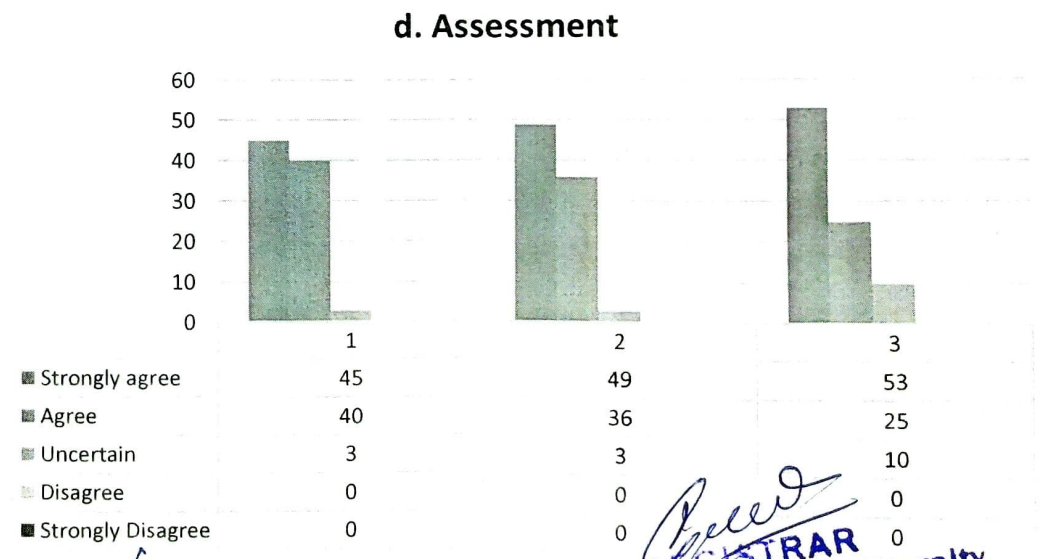
	c. Learning Resources	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
1	1. Learning materials (Lesson Plans, Course Notes etc.) were relevant and useful	45	36	7	0	0
2	2. Recommended reading Books etc. were relevant and appropriate	69	18	1	0	0
3	3. The provision of learning resources in the library was adequate and appropriate	51	37	0	0	0
	AVERAGE	55.00	30.33	2.67	0.00	0.00



	d. Assessment	Strongly agree	Agree	Uncertain	Disagree	Strongly Disagree
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



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Devices in Linux- User Space

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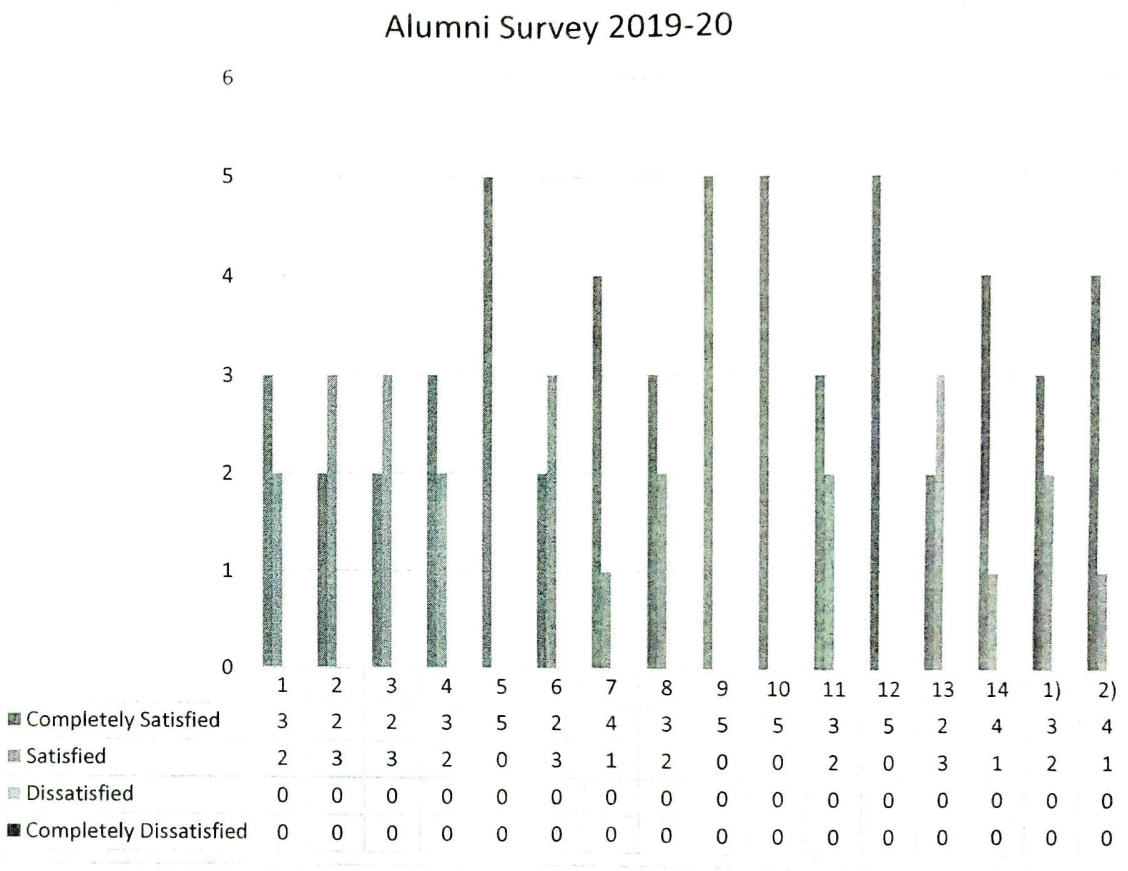
1.4.1 FEEDBACK ANALYSIS (ALUMNI) FOR - 2019 -20 BATCH

Sl No	POS	Completely Satisfied	Satisfied	Dissatisfied	Completely Dissatisfied
1	Engineering knowledge	3	2	0	0
2	Problem analysis	2	3	0	0
3	Design/Development 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	Communication:	5	0	0	0
11	Project management and finance:	3	2	0	0
12	Life-long learning:	5	0	0	0



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1.4.1 FEEDBACK ANALYSIS (ALUMNI) FOR - 2019 -20 BATCH

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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1.4.1 FEEDBACK ANALYSIS (EMPLOYERS) FOR - 2019 -20 BATCH

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	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 -Identifying Core and Non-Critical Services

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1.4.1 FEEDBACK ANALYSIS (EMPLOYERS) FOR - 2019 -20 BATCH

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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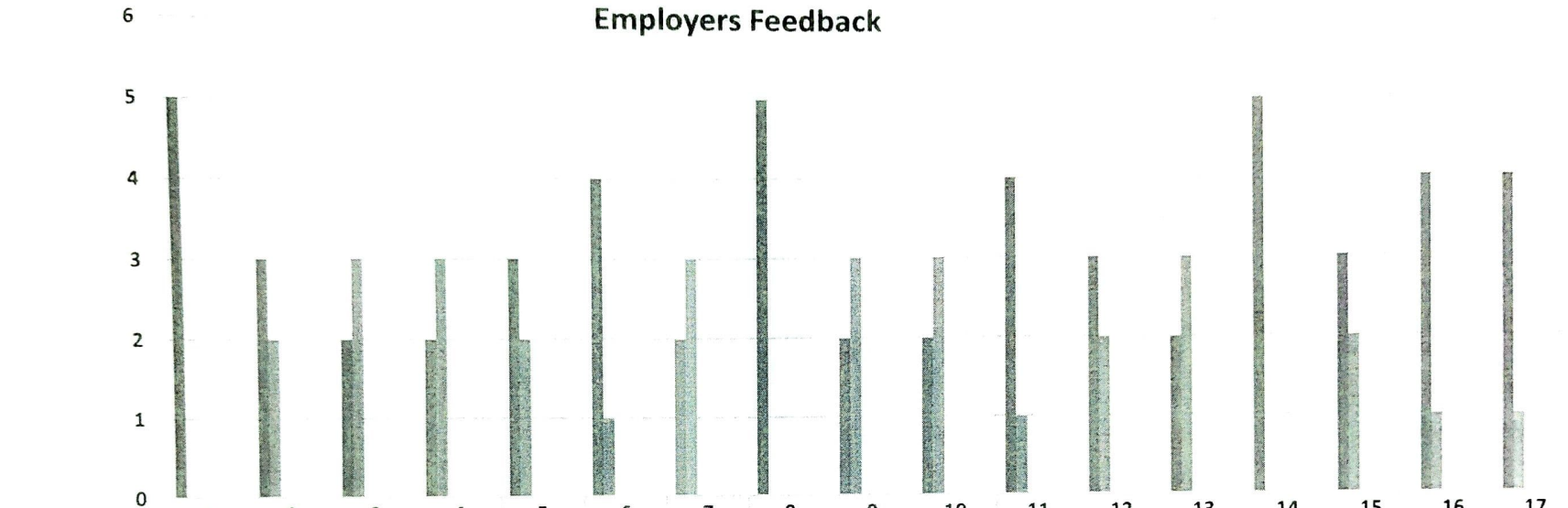

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Excellent	5	3	2	2	3	4	2	5	2	2	4	3	2	5	3	4	4
High	0	2	3	3	2	1	3	0	3	3	1	2	3	0	2	1	1
Good	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
low	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not Applicable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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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	Hrs
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 calls-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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