

Course Design Review Action Taken Report of the University on the Feedback of Stakeholders

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E lechnological University



2016-20 batch

Action Taken Report Approved in Board of Studies dated 15th April 2017 and implemented with effect from 2017-18

Observations/ Recommendations based on feedback		POs impacted
Employers Feedback: 1. Introduce the courses which are relevant to present day Technological to 2. Industry Panel Members provided inputs to strengthen specializations in Systems (2) Power Electronics and Drives and (3) Power and Energy Systems (2) Power Electronics and Drives and (3) Power and Energy Systems (4) Pre-Bos Mom): 1. As per the Teachers' recommendations involved, increasing the focus	n two or more areas like (1) Embedded ems.	PO1: Engineering knowledge PO2: Problem analysis PO5: Modern tool usage
programming courses for the students' enhancement in skills pertaining 2. Teachers have recommended to include more software related courses. Students Feedback: Introduce new courses which are helpful for better employ Alumni Feedback: More courses pertaining to soft skills may be introduced.	to fit in the Industry requirements.	
Based on all of the above inputs the following changes have been incorporated		
Actions taken	Course Revised/ Added	BoS approved Date
1. To enhance the Engineering Knowledge and Problem analysis skills, Elect Machines course has been incorporated integrating Electrical Machines I and II. addressed: 1, 2)	The state of the s	15 th April 2017

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Department of Electrical & Elect	roni	cs Engineering	
2. Courses were organized into various Verticals catering to a specific stream	m as	Courses Newly introduced	15 th April 2017
shown:		under various Verticals	
I. Embedded Systems – 3 courses:		1. Embedded Linux –	
1. Embedded Linux – 19EEEP403 (POs to address: 1, 2 and 5)		19EEEP403	
2. IOT – 17EEEE302, (POs addressed: 1, 2)		2. Internet of Things-	
3. Autosar and Infotainment – 17EEEE401 (POs to address: 1, 2, 5 and 10)		17EEEE302	
II. Power Electronics and Drives – 3 courses:		3. Autosar and Infotainment –	
1. Digital Control Systems – 17EEEE301, (POs addressed: 1, 2, 3)		17EEEE401	
2. Electric Drive Vehicles – 17EEEE402, (POs addressed: 1, 2, 3)		4. Multicore and	
3. Model Based Real Time Control Systems – 17EEEE407. (POs addressed: 1	,2,3)	Multiprocessor Architecture	
III. Modern Power and Energy Systems – 3 courses:		5. Digital Control Systems-	
1. Modelling and Analysis of Hybrid Electrical Systems – 17EEEE403	(POs	17EEEE301	
addressed: 1, 2)		6. Electric Drive Vehicles-	
2. Smart Grids – 17EEEE405, (POs addressed: 1, 2)		17EEEE402	
3. Soft Computing Applications to Power Systems – 17EEEE404,	(POs	7. Model based Real Time	
addressed: 2, 13)		Control Systems –	
		17EEEE407	
Offering elective courses as three verticals will give more choices for the studer	ts to	8. Power Quality and Ancillary	
select relevant courses in verticals to seek more employment in chosen areas.		Services	
		9. Modelling and Analysis of	
		Hybrid Electrical Systems-	
		17EEEE403	1.
		10. Smart Grids - 17EEEE405	Q /
		11. Soft Computing	7
		Applications to Power	
		Systems – 17EEEE404	MAN
		Market and the same of the sam	A - /A

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HUBBALLI-580 031

12. Reliability Engineering



Department of Electrical & Electronics Engineering 2016-20 batch

Action Taken Report Approved in Board of Studies dated 7th April 2018 and implemented with effect from 2018-19

Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: 1. Introduce more courses which are relevant to employability of students, such as OOPS w C++ etc.	ith PO1: Engineerin knowledge
2. Provide enough opportunities to use software tools and experimentation.	
Teachers Feedback (Pre-BoS MoM):	PO2: Problem analysi
 More software related courses, advanced electronics courses such as LIC and programming courses shall introduced. Power System Modeling, Operation and Control course shall be introduced at seventh semester level. Students Feedback: Increase such courses which are helpful for better employment. Alumni Feedback: Introduce more programming courses. 	PO4: Conductions complex problems
Based on all of the above inputs the following changes have been incorporated.	PO5: Modern too usage PSO2: Probler Ssolving.
	usage PSO2: Probler

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- 4. To enhance engineering knowledge and to solve complex engineering 4. Digital System Design problems, Digital System Design using Verilog - 18EEEP303 has been introduced at 6th semester. (POs addressed 1 and 5)
- 5. To enhance the Problem Analysis, mathematical modeling and simulation skills, Power System Modeling, Operation and Control – 19EEEC401 has been introduced at 7th semester. (PO addressed 2 and PSO 1).

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- using Verilog 18EEEP303
- 5. Power System Modeling, Operation and Control -19EEEC401



Department of Electrical & Electronics Engineering 2016-20 batch

Action Taken Report Approved in Board of Studies dated 13th April 2019 and implemented with effect from 2019-20

Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: 1. A course on Linux may be introduced as it is more relevant Operating System.	PO1: Engineering
2. Introduce renewable energy systems as one of the electives for other branch students.	knowledge
3. Embedded Linux course can be introduced because of strong market demand.	
	PO2: Problem analysis
Teachers Feedback (Pre-BoS MoM):	
1. Flexible AC Transmission Systems course to be introduced under the Vertical Modern Power and Energy Systems.	PO3:
2. Wind and Photovoltaic Systems course to be introduced as Open Elective.	Design/Development
	of Solutions
Students Feedback: Increase placement opportunities of Department students.	
	PO4: Conduct
Alumni Feedback: Increase focus on Embedded systems.	investigations of
Based on all of the above inputs the following changes have been incorporated.	complex problems
	PO5: Modern tool
	PO5: Modern tool usage
	ususe
	PSO1: Mathematical
	Modelling and
	Simulation

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Actions taken		Course Revised/ Added	BoS approved Date
solving skills, Fle	eam work in the form of course projects and exible AC Transmission Systems – 19EEEE401 has POS addressed 1, 9 and PSO 1).	enhance problem Course Newly Introduced	a de approved butter
To encourage Windowsbeen introduced and 3).	nd and Photovoltaic Electrical Energy Systems as an open elective for 7 th Semester students.	- 19EEEO401 has (PO addressed 1 Course introduced as Open Elective 1. Wind and Photovoltaic Electrical Energy Systems – 19EEEO401	13 th April 2019
problems, Embe	lem analysis and conduct investigations of comdded Linux – 19EEEP403 course has been ive at 8 th semester. (POs addressed 1, 2 and 5)	introduced as a Embedded Systems	$ \sqrt{} $

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Department of Electrical & Electronics Engineering 2017-21 batch

Action Taken Report Approved in Board of Studies dated 7th April 2018 and implemented with effect from 2018-19

Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: 1. Imbibe more team spirit among the students. 2. Provide anough enportunities to work in teams.	PO1: Engineerin knowledge
 Provide enough opportunities to work in teams. Increase placement opportunities by ensuring introduction of data structures of the second of the	PO4: Conduct investigations of complex problems PO5: Modern too usage
Students Feedback: Increase placement opportunities of Department students. Students in the Department. Alumni Feedback: More Power system related projects may be offered.	Special programs on soft skills to be PO9: Individual an team work PO10: Communicatio
Based on all of the above inputs the following changes have been incorporated.	- Cast communication
Actions taken	Course Revised/ Added BoS approved Date
 To make the students more competitive in solving the problems using language and enhance the logical thinking with respect to computer syster structures using C – 18EEEP201 has been introduced at 3rd semester as core (POs addressed 1,4,5,9 and 10). 	coding Course Newly ms, Data Introduced

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Department of Electrical & Electronics Engineering 2017-21 batch

Action Taken Report Approved in Board of Studies dated 13th April 2019 and implemented with effect from 2019-20

Observations/ Recommendations based on feedback	POs impacted
Employers Feedback: 1. Introduction of a course on VLSI Circuits is preferable.	PO1: Engineering
2. Enough opportunities can be created to equip students in Electrical Vehicles domain at least on simulation of EV power trains.	knowledge
3. Recent campus interviews have asked questions on VLSI circuits.	PO2: Problem analysis
Teachers Feedback (Pre-BoS MoM):	PO5: Modern tool
Battery Management Systems course may be introduced as Program Elective. A lab course on Electric Drives and Control may be introduced.	usage
Students Feedback: Problems of slow learners to be addressed.	PO9: Individual and team work
Alumni Feedback: Department may think of introducing a course on Electric Vehicles.	
Based on all of the above inputs the following changes have been incorporated.	

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Action	s taken	Course Revised/ Added	BoS approved Date
1.	To make the students more competitive in electronics related problem solving and	Courses Newly	
	develop the basic engineering knowledge, CMOS VLSI Circuits – 19EEEE301 has	Introduced	
	been introduced at 6 th semester as Program Elective. (POs addressed 1 and 2).	1. CMOS VLSI Circuits –	
2.	To strengthen the e-mobility knowledge in students, Battery Management Systems	19 <mark>EEEE301</mark>	
	- 19EEEE302 has been introduced as Program Elective under E-Mobility vertical at	2. Battery Management	13 th April 2019
	6 th semester. (POs addressed 1, 2, 3, 5 and 9).	Systems – 19EEEE302	*
3.	To strengthen the Electrical machines and Power Electronics skills, Electric Drives	3. Electric Drives and	
	and Control Lab – 19EEEP302 has been introduced. (POs addressed 1, 2, 4, 5 and	Control Lab —	
	9).	19 <mark>EEEP302</mark>	

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Department of Electrical & Electronics Engineering 2017-21 batch

Action Taken Report Approved in Board of Studies dated 6th June 2020 and implemented with effect from 2020-21

Observations/ Recommendations based on feedback		POs impacted
Employers Feedback:		PO1: Engineering
1. It is desirable to introduce/revise courses which improves the creativity and p	arallel thinking among the students.	knowledge
2. Introduce mathematical modeling and simulation of Electrical Vehicle Power		
		PO2: Problem analysis
Teachers Feedback (Pre-BoS MoM): The department should give more focus	s on Electric Vehicles by introducing	8
relevant courses.		PO3:
		Design/Development
Students Feedback: Increase placement opportunities of Department students.		of Solutions
Alumni Feedback: 1. More simulation projects on real time data may be offered		PO5: Modern tool
2. More projects from students will add value for students experiential learning.		usage
2. More projects from students will add value for students experiential learning.		
Based on all of the above inputs the following changes have been incorporated.		PSO1: Mathematical
based of all of the above inputs the following changes have been incorporated.		Modelling and
		Simulation

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Action	s taken			Course Revised/ Added	BoS approved Date
1.	To provide the exposure of	E-mobility specialization, two courses h	ave been	Courses Newly	
		on Systems for Electric Vehicles – 20EEEE		Introduced under E-	
		and another one is Powertrain Control Lab		mobility Vertical	
		es in this vertical. (POs addressed 1, 2, 3, 5,		1. Traction Systems for	
	2).			Electric Vehicles –	
				20EEEE401 and	
				Powertrain Control	6 th June 2020
				Laboratory –	
				20EEEE402	
2.	To encourage the students for	implementation of Capstone Project across	s different	Course Newly introduced	
		of Capstone Project Phase I of 6 credits (20)		as Project	
		continue with Capstone Project Phase II of		2. Capstone Project	
	in 8 th semester. (POs addresse	d 2, 3, 4, 5, 9, 10 and PSO 1).		Phase I – 20EEEW401	

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Department of Electrical & Electronics Engineering 2018-22 batch

Action Taken Report Approved in Board of Studies dated 13th April 2019 and implemented with effect from 2019-20

Observations/ Recommendations based on feedback		POs impacted
Employers Feedback: 1. Communication skills of the students to be improved through in demonstrations in the courses.	troducing presentation and	PO1: Engineering knowledge
2. Provide enough opportunities for participating in competitive exams like GATE, IES, UPS	C.	
,,,,,,		PO2: Problem analysis
Teachers Feedback (Pre-BoS MoM): A beginners course on Signal Processing such as Signal Processi	gnals and Systems may be	
introduced because of frequent questions asked on this course.		PSO2: Problem
		Solving
Students Feedback: Increase placement opportunities of Department students.		
Alumni Feedback: More emphasis may be given to analyze electronic system problems th Based on all of the above inputs the following changes have been incorporated.	rough projects.	
Actions taken	Course Revised/ Added	BoS approved Date
1. To enhance the engineering knowledge and problem solving skills of the students,	Course Nously	
- To similar the engineering knowledge and problem solving skins of the students,	Course Newly	
Signals and Systems – 19EEEC205 has been introduced at 4 th semester as a core	Introduced	13th Amril 2010
	1 10 M	13 th April 2019

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