



## UNDERGRADUATE CURRICULUM CHANGE MEMO

Date: March 14, 2021  
From:  Dr. Yuanrui Sang, Electrical and Computer Engineering  
Through: Dr. Miguel Velez Reyes, Chair, Electrical and Computer Engg   
Through: Dr. Louis Everett, Chair, College of Engineering Curriculum Committee  
Through: Dr. Norman Love, Associate Dean for Academic Affairs, College of Eng  
Through: Dr. Patricia Nava, Interim Dean, College of Engineering  
To: Dr. Art Duval, Chair, Undergraduate Curriculum Committee

Proposal Title: Course Revision – EE 4384 Control of Electric Power

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This proposal presents several revisions to EE 4384 Control of Electric Power. The update in course title and description is to reflect modern terminology and trends in the field of power systems and highlight a change to a system-level focus in the course. The original title and description focused primarily on the device-level control in power systems.

The change in pre-requisites is to replace EE 4387 with (EE 2351 and EE 2372) OR department approval. This will remove unnecessary barriers for students to take this course while ensuring they have the necessary background to handle this course.

# CURRICULUM CHANGE PROPOSAL

## APPROVAL PAGE

Proposal Title: Course Revisions - EE 4384 Control of Electric Power

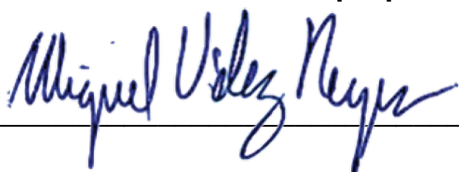
College: College of Engineering

Department: Electrical and Computer Engineering

### DEPARTMENT CHAIR

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I have read the enclosed proposal and approve this proposal on behalf of the department.



March 14, 2021

Signature

Date

### COLLEGE CURRICULUM COMMITTEE CHAIR

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I have read the enclosed documents and approve the proposal on behalf of the college curriculum committee.

Signature

Date

### COLLEGE DEAN

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I have read the enclosed documents and approve the proposal on behalf of the college. I certify that the necessary funds will be allocated by the college in support of this proposal.

Signature

Date

**From:** [Granda, Virginia D](#)  
**To:** [Rivera, Julie A](#)  
**Cc:** [Everett, Louis](#); [Love, Norman D](#)  
**Subject:** RE: UG Proposals Approved by COECC on March 19, 2021  
**Date:** Monday, March 22, 2021 11:08:09 AM  
**Attachments:** [CS-Course-Description-Update-CS-4342.pdf](#)  
[ECE--Course Revision-EE 4384.pdf](#)  
[ECE--Course-Add-EE4377.pdf](#)  
[image009.png](#)  
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[image017.png](#)  
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[image019.png](#)  
[image001.png](#)

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Dear Julie,

Please find the UG Proposals that have been approved by our college (excluding the BSCS/MBA, BSISE/MBA that were sent to COBA).

Let us know when they will be discussed by the UGCC.

Have a great week,

Virginia



**Virginia Granda-Becker**  
Coordinator for Academic Affairs and Undergraduate Studies  
  
College of Engineering  
The University of Texas at El Paso  
500 W. University Ave  
El Paso, TX 79968  
Office: (915) 747-8011  
[www.utep.edu/engineering/eec](http://www.utep.edu/engineering/eec)

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**From:** Nava, Patricia A.  
**Sent:** Friday, March 19, 2021 7:27 PM  
**To:** Love, Norman D <ndlove@utep.edu>  
**Cc:** Granda, Virginia D <granda@utep.edu>  
**Subject:** RE: UG Proposals Approved by COECC on March 19, 2021

Dear Dr. Love,

I have reviewed, and I approve.

PN



**Patricia A. Nava, Ph.D.**

Interim Dean  
Professor of Electrical and Computer Engineering  
El Paso Electric Professor in Education  
UTEP Distinguished Teaching Professor

College of Engineering  
The University of Texas at El Paso  
500 West University Avenue  
El Paso, TX 79968-0521  
Office: 915-747-6917  
Fax: 915-747-5437  
[utep.edu/engineering](http://utep.edu/engineering)



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**From:** Love, Norman D

**Sent:** Friday, March 19, 2021 4:17 PM

**To:** Nava, Patricia A. <[pnav@utep.edu](mailto:pnav@utep.edu)>

**Cc:** Granda, Virginia D <[granda@utep.edu](mailto:granda@utep.edu)>

**Subject:** FW: UG Proposals Approved by COECC on March 19, 2021

Dear Dr. Nava,

I approve of these proposals.

I'm forwarding to you for your review.

Regards,

Norman



**Norman Love, Ph.D.**

Associate Dean for Academic Affairs and Undergraduate Studies  
Professor of Mechanical Engineering  
Provost's Faculty Fellow, University Honors Program

College of Engineering  
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[utep.edu/engineering/eec/index.html](http://utep.edu/engineering/eec/index.html)



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**From:** "Granda, Virginia D" <[granda@utep.edu](mailto:granda@utep.edu)>  
**Date:** Friday, March 19, 2021 at 4:02 PM  
**To:** Norman Love <[ndlove@utep.edu](mailto:ndlove@utep.edu)>  
**Subject:** FW: UG Proposals Approved by COECC on March 19, 2021

Good afternoon Dr. Love,

Please find attached the UG proposals that were approved by our COECC and its chair.

Can you please reply letting me know if you approve them?

If you would, can you please forward them to the Dean for her approval?

Best Regards,

Virginia



**Virginia Granda-Becker**  
Coordinator for Academic Affairs and Undergraduate Studies  
  
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**From:** Everett, Louis  
**Sent:** Friday, March 19, 2021 3:01 PM  
**To:** Granda, Virginia D <[granda@utep.edu](mailto:granda@utep.edu)>  
**Subject:** RE: UG Proposals Approved by COECC on March 19, 2021

Yes I approve all these.

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**From:** Granda, Virginia D <[granda@utep.edu](mailto:granda@utep.edu)>  
**Sent:** Friday, March 19, 2021 2:20 PM  
**To:** Everett, Louis <[leverett@utep.edu](mailto:leverett@utep.edu)>  
**Subject:** UG Proposals Approved by COECC on March 19, 2021

Good afternoon Dr. Everett,

Attached are the UG proposals that were approved by our COECC today.

Please reply if you approve these proposals as the COECC chair.

Best Regards,

Virginia



**Virginia Granda-Becker**

Coordinator for Academic Affairs and Undergraduate Studies

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# COURSE CHANGE FORM

All fields below are required

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College : Engineering

Department : Electrical and Computer Engineering

Rationale for changing the course:

The update in course title and description is to reflect modern terminology and trends in the field of power systems and highlight a system-level focus of this course. The original title and description focused primarily on the device-level control in power systems.

The change in pre-requisites is to replace EE 4387 with EE 2351 and EE 2372 and include department approval. This will remove unnecessary barriers for students to take this course while ensuring they have the necessary background to handle this course.

All fields below are required

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Subject Prefix and number EE 4384

Course Title Control of Electric Power

Change	From	To
Ex. Prerequisite	Ex. POLS 2310	Ex. POLS 2312
Description	Introduction to Flexible AC Transmission Systems (FACTS), High Voltage Direct Current (HVDC) power transmission systems, and electric drives and applications. Prerequisites: EE 4387 with a grade of "C" or better.	This course introduces the students to basic optimization problems in transmission-level power system operations and planning, including basic knowledge about linear optimization, optimal power flow, unit commitment, and an introduction to the applications of power flow control technologies in power systems, such as transmission switching and flexible AC transmission systems (FACTS).
Title	Control of Electric Power	Transmission Power Flow Control
Prerequisites	EE 4387 w/C or better	(EE 2351 w/C or better and EE 2372 w/C or better)