RAAK

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

03/08/2020

From

Mr.B.Murugan

Senior Assistant professor/EEE

RAAK College of Engineering and Technology

Puducherry -110

To

The Principal

RAAK College of Engineering and Technology

Puducherry -110

Respected Sir,

Sub: Requisition for Approval to Conduct Skill Development program / Value added Course on **"20EE01- Electric Power Quality"** — reg.

This is to bring to your kind notice that the Skill Development Team is planning to conduct a Program on "20EE01- Electric Power Quality" for all the final Year Electrical and Electronics Engineering students from 09-08-2020 to 14-08-2020.

The main focus of this program is to provide a better exposure to our students on Electric Power Quality.

The syllabus and course plan structured are not listed in the Pondicherry University Curriculum and the same have been verified and approved by the Principal/HoD/Professors and Skill development team.

Hence, I kindly request you to approve event planned. The details and the necessary proofs are attached with this letter.

Thanking you,

Yours faithfully,

Mr.B.Murugan

SAP/EEE

RAAK College of Engineering & Technology

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
PRINCIPAL
RAAK College of Engineering & Technology
No.1, Muthupillai Palayam Road,
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Puducherry - 605 110

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RAAKCET/PRINCIPAL/CIR/AUG2020 04/08/2020

CIRCULAR

This is to inform that the Skill Development Team is planning to conduct a value added course on "20EE01-Electric Power Quality" for **all the Final Year Electrical and Electronics Engineering** students from 09-08-2020 to 14-08-2020. Students are asked to utilize this opportunity and improve their skills.

PRINCIPAL

Circulation to:

1. All Students
2. All Faculty & Staff Members
3. All HoDs

Copy to:

1. All HoDs
2. Office

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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NO:1, MUTHUPILLAI PALAYAM ROAD, G.N. PALAYAM, VILLIYANUR, PUDUCHERRY - 605 110

DEPARTMENT OF ELELCTRICAL AND ELECTRONICS ENGINEERING PRESENTS

VALUE ADDED COURSE ON

ELECTRIC POWER QUALITY (ONLINE MODE)

2020-2021

DATE: 09/08/2020 to 14/08/2020

VENUE: RAAKCET

TIME: 09 am to 04 pm

Resource Person:

Mrs. R. Jansirani
Assistant Professor, EEE,
Achariya College of Engg & Tech.

For Registration Contact:

Ms. K. kalaimani , AP/ EEE.,
7686134987.

HOD

Mr. B. Murugan

PRINCIPAL

Dr. S. Seenuvasamurthi

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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VALUE ADDED COURSES

2020-2021

Department of Electrical and Electronics Engineering

20EE01-Electric Power Quality

Duration: 36 hours

Course Objective:

- To impart knowledge about various electric power quality phenomenon.
- To learn about electric power quality causes and consequences.
- To familiarize the students to monitoring methods and essential mitigation techniques.

Course Outcome:

Upon successful completion of the course students able to

- Understand different types of power quality problems with their source of generation.
- Interpret results of power quality monitoring equipment and classify the power quality disturbances.
- Recommend viable solutions for mitigation of the power quality problems
- Design active & passive filters for harmonic elimination.

Module 1: Electric power quality phenomena **(9 Hours)**

Electric power quality phenomena: Introduction to power quality, IEEE and IEC - EMC standards, overview of power quality disturbances - voltage variations, interruptions, transients, waveform distortion and power frequency variations.

Module 2: Power quality indices and monitoring **(9 Hours)**

Power quality indices and monitoring: Power definitions and power quality indices for single-phase, three-phase balanced and unbalanced systems under sinusoidal and nonsinusoidal conditions – importance and introduction to power quality monitoring.

Module 3: Voltage variations **(9 Hours)**

Voltage variations: Definitions, sources, measurement, impact on equipment and mitigation of voltage sag, swell, interruption and voltage fluctuation.

Module 4 :Harmonics: **(9 Hours)**

Harmonics: Harmonic sources, measurement of harmonic distortion, current and voltage limits of distortion, harmonic analysis using Fourier transform, effects of harmonic distortion and harmonic filters – passive, active and hybrid.

Module 5: **(9 Hours)**

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Sulthanpet Post,
Puducherry - 605 1

Custom Power Devices: Introduction to shunt and series compensators, DSTATCOM, Dynamic Voltage Restorer (DVR) and Unified Power Quality Conditioner (UPQC).

Course Designed by **Approved by** **Principal**

RAAK College of Engineering & Technology

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CO - ATTAINMENT MAPPING

Sl. No	Register Number	Student Name	CO1	CO2	CO3	CO4
1	17TE3101	GUNALAN.M	✓	✓	✓	✓

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VALUE ADDED COURSES

2020-2021

Department of Electrical and Electronics Engineering

20EE01- Electric Power Quality

COURSE PLAN

S.no	Date	Hours	Time	Topic	Resourse person
DAY -1					
1	09.08.20	1.2	9AM -11AM	Electric power quality phenomena: Introduction to power quality	Mrs.R.Jansirani & Mr.Annadurai
2		3,4	11.15AM – 1.15 PM	, IEEE and IEC - EMC standards,	Mrs.R.Jansirani
3		5.6	2 PM -4PM	Overview of power quality disturbances - voltage variations, interruptions, transients,	Mr.Annadurai
DAY 2					
4	10.08.20	7,8	9AM -11AM	Waveform distortion and power frequency variations.	Mrs.R.Jansirani
5		9,10,	11.15AM – 1.15 PM	Power quality indices and monitoring: Power definitions and power quality	Mr.Annadurai
6		11,12	2 PM -4PM	For single-phase, three-phase balanced and unbalanced systems under sinusoidal and nonsinusoidal conditions	Mrs.R.Jansirani
DAY -3					
7	11.08.20	13,14	9AM -11AM	Importance and introduction to power quality monitoring.	Mr.Annadurai
8		15,16	11.15AM – 1.15 PM	Voltage variations: Definitions, sources, measurement	Mrs.R.Jansirani
9		17,18	2 PM -4PM	Impact on equipment and mitigation of voltage sag	Mr.Annadurai
DAY -4					
10	12.08.20	19,20	9AM -11AM	Swell, interruption and	Mrs.R.Jansirani

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				voltage fluctuation.	
11		21,22	11.15AM – 1.15 PM	Harmonics: Harmonic sources, measurement of harmonic distortion	Mr.Annadurai
12		23,24	2 PM -4PM	Current and voltage limits of distortion, harmonic analysis using Fourier transform	Mrs.R.Jansirani
DAY -5					
13	13.08.20	25,26	9AM -11AM	Effects of harmonic distortion and harmonic filters – passive, active and hybrid.	Mr.Annadurai
14		27,28	11.15AM – 1.15 PM	Custom Power Devices	
15		29,30	2 PM -4PM	Introduction to shunt and series compensators	Mrs.R.Jansirani
DAY -6					
16	14.08.20	31,32	9AM -11AM	DSTATCOM, Dynamic Voltage Restorer (DVR)	Mr.Annadurai
17		33,34	11.15AM – 1.15 PM	Unified Power Quality Conditioner (UPQC).	Mrs.R.Jansirani
18		35,36	2 PM -4PM	Application and advantages of Custom power devices.	Mr.Annadurai
ASESSMENT EXAM WILL BE CONDUCTED AFTER ONE WEEK OF COURSE COMPLETION *					

BREAK TIME: 11.00 TO 11.15 AM **LUNCH BREAK: 1.15 PM TO 2.00 PM**

COURSE DESIGNED BY
Mr.B.MURUGAN

APPROVED BY
SKILL DEVELOPMENT TEAM

PRINCIPAL
Dr.S.SEENUVASAMURTHI

RAAK College of Engineering & Technology

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VALUE ADDED COURSES

2020-2021

Department of Electrical and Electronics Engineering

EVENT REPORT

Name of the Course: 20EE01-Electric Power Quality (Online mode)

Name of the Instructors: Mrs.R.Jansirani & Mr.Annadurai

Year/ Branch: IV/Electrical

Duration of Course: 36 Hours (09-08-2020 to 14-08-2020)

Assessment Date: 20.08.2020

Post Event Summary:

The course was inaugurated on 09-08-2020 at 9.30 A.M. by our respectable principal and sessions were continued as per the schedule. Students were enriched their knowledge by attending the course. Finally, the course concluded by vote of thanks.

On 20.08.2020 assessment was conducted and feedbacks were collected from all the participants.

CO - Attainment:

CO1 Understand different types of power quality problems with their source of generation.

CO2 Interpret results of power quality monitoring equipment and classify the power quality disturbances.

CO3 Recommend viable solutions for mitigation of the power quality problems

CO4 Design active & passive filters for harmonic elimination.

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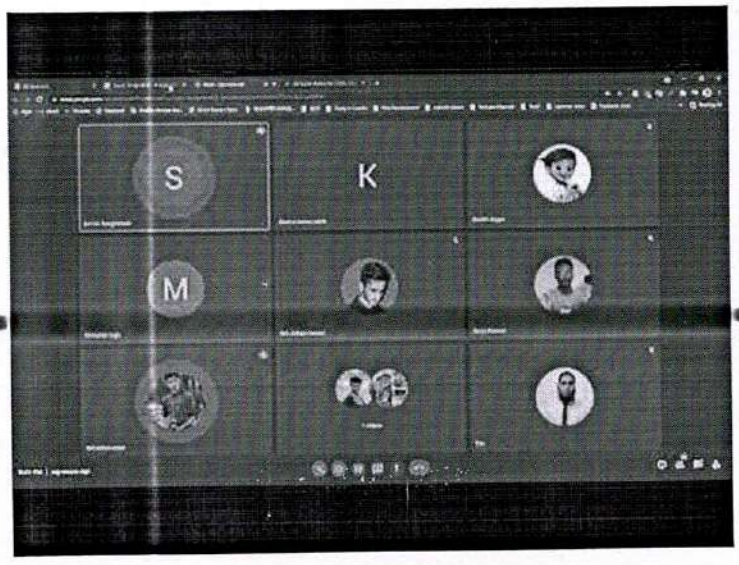
Puducherry - 605 110

Value Added Course on Electric Power Quality 2020-21



For single-phase, three-phase balanced and unbalanced systems under sinusoidal and non-sinusoidal conditions on 10.08.20

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02/08/2020

From

Mr. B.Murugan

Senior Assistant professor/EEE,

RAAK College of Engineering and Technology

Puducherry -110

To

The Principal

RAAK College Of Engineering And Technology

Puducherry -110

Respected Sir,

Sub: Requisition for Approval to Conduct Skill Development program / Value added Course on **"20EE02-Distribution System Automation"** — reg.

This is to bring to your kind notice that the Skill Development Team is planning to conduct a Program on "20EE02- Distribution System Automation" for all the second Year Electrical and Electronics Engineering students from 09-08-2020 to 14-08-2020.

The main focus of this program is to provide a better exposure to our students on Distribution System Automation.

The syllabus and course plan structured are not listed in the Pondicherry University Curriculum and the same have been verified and approved by the Principal/HoD/Professors and Skill development team.

Hence, I kindly request you to approve event planned. The details and the necessary proofs are attached with this letter.

Thanking you,

Yours faithfully,

B.Murugan

SAP/EEE

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RAAKCET/PRINCIPAL/CIR/AUG2020 03/08/2020

CIRCULAR

This is to inform that the Skill Development Team is planning to conduct a value added course on "**20EE02-Distribution System Automation**" for all the Third Year Electrical and Electronics Engineering students from 09-08-2020 to 14-08-2020. Students are asked to utilize this opportunity and improve their skills

PRINCIPAL

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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DEPARTMENT OF ELELCTRICAL AND ELECTRONICS ENGINEERING PRESENTS

VALUE ADDED COURSE ON

DISTRIBUTION SYSTEM AUTOMATION (ONLINE MODE)

2020-2021

DATE: 09/08/2020 to 14/08/2020

VENUE: RAAKCET

TIME: 09 am to 04 pm

Resource Person:

Mr. Annathurai
Assistant Professor,
VRSCET, Arasur.

For Registration Contact:

Ms. K. kalaimani , AP/ EEE.,
7725535845.

HOD

Mr. B. Murugan

RAAK College of Engineering & Technology

PRINCIPAL

Dr. S. Seenuvasamurthi

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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VALUE ADDED COURSES

2020-2021

Department of Electrical and Electronics Engineering

20EE02-Distribution System Automation

Duration: 36 hours

Course Objective:

- To understand and appreciate the basic control techniques involved in distribution automation
- Introduced to the various communication systems involved in distribution automation.
- The objective of the course is to enable the students capable of analyzing the economics behind the automation of distribution system automation.

Course Outcome:

Upon successful completion of the course students able to

- Understand the Distribution Automation Systems and the Control techniques involved.
- Develop a clear idea on the layout of the substations and feeders and also on the various management techniques viz., load management and voltage management.
- Identify an appropriate method of communication for any particular distribution system with a view of automation.
- Evaluate the economic aspects of any distribution system with automation.

Module 1:Introduction to Distribution Automation **(9 Hours)**

Introduction to Distribution Automation, Control System Interfaces, Control and Data requirements, Centralized (Vs) Decentralized Control, Distribution Automation System, DAS Hardware, DAS Software, DA Capabilities, Automation system computer facilities.

Module2: Layout of substations and feeders **(9 Hours)**

Layout of substations and feeders - design considerations. Distribution system load flow - optimal siting and sizing of substations - optimal capacitor placement. Distribution system monitoring and control - SCADA, Remote metering and load control strategies - Optimum feeder switching

Module 3: DA Communication Requirements **(9 Hours)**

DA Communication Requirements - reliability, Cost Effectiveness, Data Rate Requirements, Two Way Capability - outages and faults, Ease of operation and maintenance - Communication Systems used - Distribution line carrier (Power line carrier), Telephone, Cable TV, Radio, AM Broadcast, FM SCA, VHF Radio, UHF Radio etc.

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Module 4: DA Benefit Categories **(9 Hours)**

DA Benefit Categories - Capital Deferred Savings - Operation and Maintenance Savings - Interruption Related Savings - Customer-related Savings - Operational savings. Improved operation - Function Benefits.

Module 5: Economic impacts **(9 Hours)**

Economic impacts - Automation on Distribution Systems, Integration of benefits into economic evaluation. Development and Evaluation of Alternate plans - Operation and Maintenance Cost Evaluation, Evaluation of Alternatives.

Course Designed by **Approved by** **Principal**

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Sulthanpet Post,
Puducherry - 605 110

CO - ATTAINMENT MAPPING

Sl. No	Register Number	Student Name	CO1	CO2	CO3	CO4
1	18TE0852	MAHALAKSHMI.M	✓	✓	✓	✓
2	18TC1207	KAVITHA.U	✓	✓	✓	✓

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VALUE ADDED COURSES

2020-2021

Department of Electrical and Electronics Engineering

20EE02- Distribution System Automation

COURSE PLAN

S.no	Date	Hours	Time	Topic	Faculty details
DAY -1					
1	09.08.20	1.2	9AM -11AM	Introduction to Distribution Automation, Control System Interfaces	Mrs.R.Jansirani & Mr.Annadurai
2		3,4	11.15AM – 1.15 PM	Control and Data requirements, Centralized (Vs) Decentralized Control	Mrs.R.Jansirani
3		5.6	2 PM -4PM	Distribution Automation System, DAS Hardware	Mr.Annadurai
DAY 2					
4	10.08.20	7,8	9AM -11AM	, DAS Software, DA Capabilities, Automation system computer facilities.	Mrs.R.Jansirani
5		9,10,	11.15AM – 1.15 PM	Layout of substations and feeders - design considerations	Mr.Annadurai
6		11,12	2 PM -4PM	Distribution system load flow - optimal siting and sizing of substations	Mrs.R.Jansirani
DAY -3					
7	11.08.20	13,14	9AM -11AM	optimal capacitor placement. Distribution system monitoring and control	Mr.Annadurai
8		15,16	11.15AM – 1.15 PM	SCADA, Remote metering and load control strategies - Optimum feeder switching	Mrs.R.Jansirani
9		17,18	2 PM -4PM	DA Communication Requirements - reliability	Mr.Annadurai
DAY -4					
10	12.08.20	19,20	9AM -11AM	Cost Effectiveness, Data Rate Requirements, Two Way Capability - outages and faults	Mrs.R.Jansirani
11		21,22	11.15AM – 1.15 PM	Ease of operation and maintenance -	

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				Communication Systems used - Distribution line carrier	
12		23,24	2 PM -4PM	Telephone, Cable TV, Radio, AM Broadcast, FM SCA, VHF Radio, UHF Radio etc	Mrs.R.Jansirani
DAY -5					
13	13.08.20	25,26	9AM -11AM	DA Benefit Categories - Capital Deferred Savings	Mr.Annadurai
14		27,28	11.15AM – 1.15 PM	Operation and Maintenance Savings - Interruption Related Savings	Mrs.R.Jansirani
15		29,30	2 PM -4PM	Customer-related Savings - Operational savings.	Mr.Annadurai
DAY -6					
16	14.08.20	31,32	9AM -11AM	Improved operation - Function Benefits.	Mrs.R.Jansirani
17		33,34	11.15AM – 1.15 PM	Economic impacts - Automation on Distribution Systems, Integration of benefits into economic evaluation	Mr.Annadurai
18		35,36	2 PM -4PM	Development and Evaluation of Alternate plans - Operation and Maintenance Cost Evaluation	Mrs.R.Jansirani
ASESSMENT EXAM WILL BE CONDUCTED AFTER ONE WEEK OF COURSE COMPLETION *					

BREAK TIME: 11.00 TO 11.15 AM **LUNCH BREAK: 1.15 PM TO 2.00 PM**

COURSE DESIGNED BY
Mr.B.MURUGAN

APPROVED BY
SKILL DEVELOPMENT TEAM

PRINCIPAL
Dr.S.SEENUVASAMURTHI

RAAK College of Engineering & Technology

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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VALUE ADDED COURSES

2020-2021

Department of Electrical and Electronics Engineering

EVENT REPORT

Name of the Course: 20EE02-Distribution System Automation (Online mode)

Name of the Instructors: Mrs.R.Jansirani & Mr.Annadurai

Year/ Branch: III/Electrical and Electronics Engineering

Duration of Course: 36 Hours (09-08-2020 to 14-08-2020)

Assessment Date: 20.08.2020

Post Event Summary:

The course was inaugurated on 09-08-2020 at 9.30 A.M. by our respectable principal and sessions were continued as per the schedule. Students were enriched their knowledge by attending the course. Finally, the course concluded by vote of thanks.

On 20.08.2020 assessment was conducted and feedbacks were collected from all the participants.

CO - Attainment:

CO1 Understand the Distribution Automation Systems and the Control techniques involved.

CO2 Develop a clear idea on the layout of the substations and feeders and also on the various management techniques viz., load management and voltage management.

CO3 Identify an appropriate method of communication for any particular distribution system with a view of automation.

CO4 Evaluate the economic aspects of any distribution system with automation.Understand different types of power quality problems with their source of generation.

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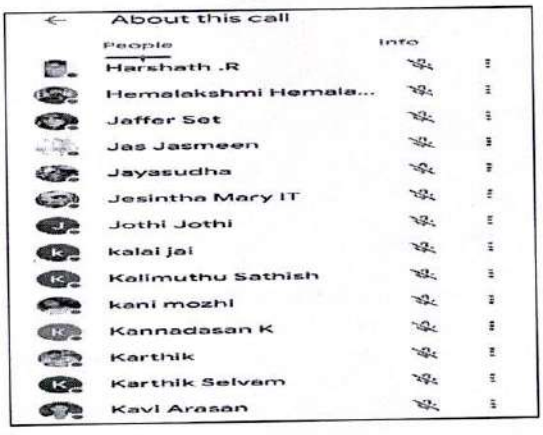
Value Added Course on Distribution System Automation 2020-21



Layout of substations and feeders - design considerations on 10.08.20

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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03/08/2020

From

Mr.B.Murugan

Senior Assistant professor/EEE

RAAK College of Engineering and Technology

Puducherry -110

To

The Principal

RAAK College of Engineering and Technology

Puducherry -110

Respected Sir,

Sub: Requisition for Approval to Conduct Skill Development program / Value added Course on **"20EE03-Non-linear control systems"** — reg.

This is to bring to your kind notice that the Skill Development Team is planning to conduct a Program on "20EE03- Non-linear control system" for all the second Year Electrical and Electronics Engineering students from 09-08-2020 to 14-08-2020.

The main focus of this program is to provide a better exposure to our students on Non-linear control System.

The syllabus and course plan structured are not listed in the Pondicherry University Curriculum. and the same have been verified and approved by the Principal/HoD/Professors and Skill development team.

Hence, I kindly request you to approve event planned. The details and the necessary proofs are attached with this letter.

Thanking you,

Yours faithfully,

Mr.B.Murugan

SAP/EEE

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RAAKCET/PRINCIPAL/CIR/AUG2020 **04/08/2020**

CIRCULAR

This is to inform that the Skill Development Team is planning to conduct a value added course on "**20EE03-Non-Linear Control Systems**" for all the Second Year Electrical and Electronics Engineering students from 09-08-2020 to 14-08-2020. Students are asked to utilize this opportunity and improve their skills.

PRINCIPAL

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to Pondicherry University)

NO:1, MUTHUPILLAI PALAYAM ROAD, G.N. PALAYAM, VILLIYANUR, PUDUCHERRY - 605 110

DEPARTMENT OF ELELCTRICAL AND ELECTRONICS ENGINEERING PRESENTS

VALUE ADDED COURSE ON

NON LINEAR CONTROL SYSTEM (ONLINE)

2020-2021

DATE: 09/08/2020 to 14/08/2020

VENUE: RAAKCET

TIME: 09 am to 04 pm

Resource Person:

Mr. S. Manimaran
Assistant Professor,
VRSCET, Arasur.

For Registration Contact:

Mr. R. Sasikumar , AP/ EEE.,
8610459324.

HOD

Mr. B. Murugan

RAAK College of Engineering & Technology

PRINCIPAL

Dr. S. Seenuvasamurthi

Dr. S. SEENUVASAMURTHI, M.E., Ph.D.
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RAAK

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VALUE ADDED COURSES

2020-2021

Department of Electrical and Electronics Engineering

20EE03-Non-Linear Control Systems

Duration: 36 hours

Course Objective:

- To understand and appreciate the basic mathematical model of systems
- The aim of this course is to introduce the concept of non-linear controller design to the undergraduate student.
- To study the concepts of non-linear systems.

Course Outcome:

Upon successful completion of the course students able to

- Understand the concept of non-linear system.
- Design non-linear controller for electrical system
- To learn the concept of non-linear controller design.
- To Study the mathematical model of electrical system.

Module 1: Open and closed sets **(9 Hours)**

Open and closed sets, compact set, dense set, Continuity of functions, Lipschitz condition, smooth functions, Vector space, norm of a vector, normed linear space, inner product space

Module2: Mathematical modeling **(9 Hours)**

Mathematical modeling of simple mechanical and electrical systems, concept of equilibrium points, isolated equilibrium points and limit cycles.

Module 3: Stability analysis of nonlinear system **(9 Hours)**

Stability analysis of nonlinear systems – Lyapunov stability, asymptotic stability, relative stability, finite-time stability and exponential stability. Lasalles invariance principle.

Module 4: Feedback linearization **(9 Hours)**

Feedback linearization- dynamic feedback linearization, flatness and back stepping controllers design.

Module 5: Sliding mode controller **(9 Hours)**

Sliding mode controller design, Lyapunov redesign and energy based controller design.

Course Designed by

Approved by

Principal

RAAK College of Engineering & Technology

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CO - ATTAINMENT MAPPING

Sl. No	Register Number	Student Name	CO1	CO2	CO3	CO4
1	19TE0551	NIRMAL GEORGE.A	✓	✓	✓	✓
2	19TE0552	BRANAN.D	✓	✓	✓	✓
3	19TE0553	SANJAIDHARAN.G	✓	✓	✓	✓
4	19TE0554	KEERTHIKA.N	✓	✓	✓	✓
5	19TE0555	KAVIMANI.M	✓	✓	✓	✓
6	19TE0556	MUTHUKUMARAN.V	✓	✓	✓	✓
7	19TE0557	RAKESH.M	✓	✓	✓	✓
8	19TE0558	VEDA.S	✓	✓	✓	✓
9	19TE0559	YUVARAJ.P	✓	✓	✓	✓
10	19TEL032	DINESHKAR.M	✓	✓	✓	✓

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VALUE ADDED COURSES

2020-2021

Department of Electrical and Electronics Engineering

20EE03-Non-linear Control system

COURSE PLAN

S.no	Date	Hours	Time	Topic	Faculty details
DAY -1					
1	09.08.20	1.2	9AM -11AM	Open and closed sets, compact set, dense set	Mr.S.Manimaran & Mr. T.Krishna
2		3,4	11.15AM – 1.15 PM	Continuity of functions, Lipschitz condition	Mr.S.Manimaran
3		5.6	2 PM -4PM	Smooth functions, Vector space, norm of a vector	Mr. T.Krishna
DAY 2					
4	10.08.20	7,8	9AM -11AM	Normed linear space, inner product space	Mr.S.Manimaran
5		9,10,	11.15AM – 1.15 PM	Mathematical modeling of simple mechanical and electrical systems	Mr. T.Krishna
6		11,12	2 PM -4PM	Concept of equilibrium points, isolated equilibrium points and limit cycles.	Mr.S.Manimaran
DAY -3					
7	11.08.20	13,14	9AM -11AM	Stability analysis of nonlinear systems	Mr. T.Krishna
8		15,16	11.15AM – 1.15 PM	Lyapunov stability, asymptotic stability	Mr.S.Manimaran
9		17,18	2 PM -4PM	relative stability, finite-time stability	Mr. T.Krishna
DAY -4					
10	12.08.20	19,20	9AM -11AM	exponential stability	Mr.S.Manimaran
11		21,22	11.15AM – 1.15 PM	Lasalles invariance principle.	Mr. T.Krishna
12		23,24	2 PM -4PM	Feedback linearization	Mr.S.Manimaran
DAY -5					
13	13.08.20	25,26	9AM -11AM	dynamic feedback linearization	Mr. T.Krishna
14		27,28	11.15AM – 1.15 PM	flatness and back stepping controllers design.	Mr.S.Manimaran
15		29,30	2 PM -4PM	Sliding mode controller design.	Mr. T.Krishna

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DAY -6					
16	14.08.20	31,32	9AM -11AM	Lyapunov redesign	Mr.S.Manimaran
17		33,34	11.15AM – 1.15 PM	Energy based controller design.	Mr. T.Krishna
18		35,36	2 PM -4PM	Application of sliding mode controller design	
ASESSMENT EXAM WILL BE CONDUCTED AFTER ONE WEEK OF COURSE COMPLETION *					

BREAK TIME: 11.00 TO 11.15 AM **LUNCH BREAK: 1.15 PM TO 2.00 PM**

COURSE DESIGNED BY

Mr.B.MURUGAN

APPROVED BY

SKILL DEVELOPMENT TEAM

PRINCIPAL

Dr.S.SEENUVASAMURTHI

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VALUE ADDED COURSES

2020-2021

Department of Electrical and Electronics Engineering

EVENT REPORT

Name of the Course: 20EE03-Non Linear Control System (Online mode)

Name of the Instructors: Mr.S.Manimaran & Mr. T.Krishna

Year/ Branch: II/Electrical and Electronics

Duration of Course: 36 Hours (09-08-2020 to 14-08-2020)

Assessment Date: 20.08.2020

Post Event Summary:

The course was inaugurated on 09-08-2020 at 9.30 A.M. by our respectable principal and sessions were continued as per the schedule. Students were enriched their knowledge by attending the course. Finally, the course concluded by vote of thanks.

On 20.08.2020 assessment was conducted and feedbacks were collected from all the participants.

CO - Attainment:

CO1 Understand the concept of non-linear system.

CO2 Design non-linear controller for electrical system

CO3 To learn the concept of non-linear controller design.

CO4 To Study the mathematical model of electrical system.

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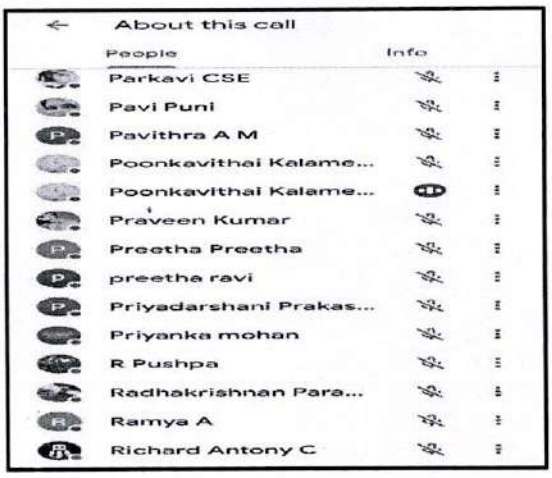
Value Added Course on -Non Linear Control System 2020-21



Mathematical modeling of simple mechanical and electrical systems on 10.08.20

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