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Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,

Telangana State – 500100

www.mrec.ac.in

Department of Electrical and Electronics Engineering

CIRCULAR

Date: 02.09.2020

All the students are hereby informed that Value Added Course on STABILITY ANALYSIS AND CONTROL SYSTEMS from 7th Sept – 11th Sept 2020 is being organized by the Electrical and Electronics Engineering. The resource person for the course is P Raju naik, Professor, TRR Engineering College Students are advised to register their names to the Programme S. Bharathi Assistant professor, EEE on or before 05.09.2020 and utilize this opportunity to enhance their skills by attending the Programme.

The detailed schedule of the programme will be displayed in the notice board.

Copy to:

- 1) Circulation in Students classroom
- 2) All HOD's
- 3) Notice Boards
- 4) PA to principal for filing.

walla Reddy Engineering Cellege (Autonomous) Maisammaguda, Dhulapaliy

Maisammaguda, Dhurapada (Post Via Kompally), Sec'bad-500 100

About the Institution

Malla Reddy Engineering College (Autonomous) is one of the reputed engineering colleges in Hyderabad, Telangana. MREC (A) is part of Malla Reddy Group of Institutions (MRGI), founded by Sri. Ch. Malla Reddy, The college is situated in a serene, lush green environment in Maisammaguda, Gundlapochampally, Medchal(M), Medchal-Malkajgiri District Telangana – 500100.

The college was established in 2002 and is an autonomous institution approved by UGC and affiliated to JNTUH. The college is re-accredited by NAAC with 'A' Grade (II Cycle) and was conferred autonomous status by JNTUH in 2011 and by UGC in 2014 for a period of 6 years. Our eligible UG and PG programs received NBA accreditation and some of them received reaccreditation too. The college caters to wide ranging aspirations and goals of student communities by offering new courses in UG courses provides PG courses and MBA along with programs in various streams of Engineering & Technology and Management. It boasts of world-class well-equipped infrastructure and laboratories in all departments and is skillfully and smartly guided by Dr. A. Ramaswami Reddy, Director, MREC (A) and Dr. A.Raveendra, Principal, MREC (A)

Advisory Committee

Chief Patrons: Sri. Ch. Malla Reddy, Minister-

Telangana State-India.
Founder Chairman
Malla Reddy Group of

Institutions

Patrons: Sri.Ch. Mahender Reddy

Secretary, MRGI

Dr.Ch.Bhadra Reddy

President, MRGI

Co-Patrons: Dr. A.Raveendra

Principal, MREC (A)

Convener: Dr.N.Rajeswaran

HOD EEE

Coordinator: S. Bharathi

Assistant professor

Resource Person :P Raju Naik, Professor,

TRR Engineering college **Organizing Committee:**

Dr.N.Rajeswaran, Professor, EEE
Dr.P.Ananthababu, Associate Professor, EEE
Mr.P. Kamalakar, Assoc. Professor, EEE
Mr. T. Sanjeeva Rao, Assoc. Professor, EEE
Mr.Ch NarendraKumar, Assoc. Professor, EEE
Mr.V.Ganesh Kumar, Assoc. Professor, EEE
Mr. D.Ramesh, Asst.Prof, EEE
Mrs.K. Anitha Reddy, Asst.Prof, EEE
Mrs.S. Bharathi, Asst.Prof, EEE
Mr.KSS Naga Teja, Asst.Prof, EEE
Mr.P.Ganesh, Asst.Prof, EEE
Mr.Madhu Mohan Reddy A, Asst.Prof, EEE
Mrs.V.Suma Deepthi, Asst.Prof, EEE
Mrs.V.Suma Deepthi, Asst.Prof, EEE







A Five-Day Skill development Course (Value added Course)

On

"STABILITY ANALYSIS AND CONTROL SYSTEMS"

(7th Sept – 11th Sept 2020)



Organized by
Department of
Electrical and Electronics Engineering,
MALLA REDDY ENGINEERING COLLEGE

(AUTONOMOUS) MAIN CAMPUS
An UGC Autonomous Institution, Approved by
AICTE & Affiliated to JNTUH-Hyderabad
ReaccreditedbyNAACwith'A'Grade (II Cycle)
Maisammaguda(H), Gundlapochampally (V),
Medchal (M), Medchal - Malkajgiri District
Telangana - 500100, India.

Registration Form

Name of the Participant :
Branch& Year :
Name of Institution:
Address for Communication:
Mobile Number:
E-Mail ID:
DECLARATION: The information furnished above is true to the best of my Knowledge.
Place:
Date:
Signature of Applicant

About the Department

The Department Electrical and Electronics Engineering, has been established since the inception of the institution in the year 2002. The Department has good infrastructure facilities and is equipped with full-fledged laboratories to fulfil the curriculum needs. The Department has well experienced faculty. Around one-third of the faculty members in the department are Doctorate. The department has good number of sanctioned projects, funded by different agencies/industries. The Department is intended to be allotted a Research Centre by JNTU Hyderabad.

Overview of the Programme

The primary responsibility of faculty is not only to inspire students towards a higher vision but also create a strong sense of bonding between the institution and the students to nurture a stress-free holistic environment. To enhance the quality of life for the student members enabling them to introspect and learn techniques that imbibe ethics & morals and help prepare students for active and successful participation in a modern society, producing individuals of high character, probity and honor.

Proposed course helps for an integral aspect of designing and material selection is the use of mechanical properties derived from various mechanical testing its relation with the properties derived from various mechanical testing's, namely, tensile, compressive, hardness, torsion and bend, shear load, shock, and fatigue and creep testing's.

Objectives of the Programme

- To use the techniques, skills and modern engineering tools necessary for engineering.
- Understanding of MATLAB Simulink concept.
- · Ability to do the Nyquist and bode plot

Topics to be covered

- Practical session on Time response analysis of second order system.
- Stability analysis of LTI systems using Bode plot using MATLAB Simulation.
- Stability analysis of LTI systems using Nyquist plot.

Certificate

After successful completion of the course the certificates shall be issued to the participants.

Outcome of the program

After completing the Course, understanding the concept of stability analysis and control systems in electrical engineering.

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Maisammaguda (H), Medchal-Malkajgiri District, Telangana State – 500100

Department of Electrical and Electronics Engineering

Value Added Course "Stability analysis and Control systems" 7th Sept – 11th Sept 2020 Programme Schedule

Date	Time	Topic	Resource Person	
	10:10 - 11.00AM	Time response analysis of second order system		
	11:00 -11:15AM	Tea Break		
	11.15 – 12:45 PM	Practical session on Time response analysis of second order system		
07-09-2020	12:45 - 1:30PM	Lunch	P Raju Naik	
	1:30 - 2:30 PM	Time response analysis of second order system using controllers		
	2:30 - 2:45PM	Tea Break		
	2:45 -4:00 PM	Practical session on Time response analysis of second order system using controllers		
	9:30 - 11.00AM	Stability analysis of LTI systems using Root Locus plot		
	11:00 -11:15AM	Tea Break		
	11.15 – 12:45 PM	Stability analysis of LTI systems using Root Locus plot using MATLAB Simulation	P Raju Naik	
08-09-2020	12:45 - 1:30PM	Lunch		
	1:30 - 2:30 PM	Stability analysis of LTI systems using Bode plot.		
	2:30 - 2:45PM	Tea Break		
	2:45 -4:00 PM	Stability analysis of LTI systems using Bode plot using MATLAB Simulation		
	9:30 - 11.00AM	Stability analysis of LTI systems using Nyquist plot		
	11:00 -11:15AM	Tea Break	CIPAL COTTON	

	11.15 – 12:45 PM	Time response analysis of second order system with and without controller		
09-09-2020	12:45 – 1:30PM	Lunch P Raju		
	1:30 – 2:30 PM	State Space analysis		
	2:30 – 2:45PM	Tea Break		
	2:45 -4:00 PM	State space modeling		
	9:30 – 11.00AM	Significance of compensators		
	11:00 -11:15AM	Tea Break		
	11.15 – 12:45 PM	Types of compensators	P Raju Naik	
10-09-2020	12:45 – 1:30PM	Lunch	- Naju Najik	
	1:30 – 2:30 PM	Practical session on Lead-Lag networks		
	2:30 – 2:45PM	Tea Break		
	2:45 -4:00 PM Practical session on Synchro Transmitte Receiver pair.			
	9:30 – 11.00AM	stability criterion relative stability analysis-		
	11:00 -11:15AM	Tea Break		
	11.15 – 12:45 PM	Stability analysis of LTI systems using Nyquist plot using MATLAB Simulation		
	12:45 – 1:30PM	Lunch		
11-09-2020	1:30 – 2:30 PM	Simulation of second order system with and without controller using MATLAB-Simulink	P Raju Naik	
	2:30 – 2:45PM	Tea Break		
	2:45 -4:00 PM	State space modeling using MATLAB		

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Maisammaguda (H), Medchal-Malkajgiri District, Telangana State - 500100

Department: EEE

Course: B.Tech

Date: 07/09/2020 to 11/09/2020

DEPARTMENT OF ELECTRICAL and ELECTRONICS ENGINEERING

List of Students Enrolled for Value Added Course Academic Year 2020-2021

Name of the Value Added Course: Stability Analysis and Control Systems

SI.No	Roll No	Name	YEAR /SEMESTER
1	18J41A0201	ALVALE SHRUTHILAYA	III/I
2	18J41A0202	AMBEDA AMANI	III/I
3	18J41A0203	AMRADI SOWMYA	III/I
4	18J41A0204	ANADLA SRAVANI	III/I
5	18J41A0205	ARUGOLLU SATHISHKUMAR	III/I
6	18J41A0207	BURUGADDA REVATI SWAPNIKA	111/1
7	18J41A0208	BUYYA BERUSHALAM	HI/I
8	18J41A0209	BYREDDY SUPRAJA	HI/I
9	18J41A0210	CHITTETI NAGA SRI SURYA VARA PRASAD	III/I
10	18J41A0211	DATLA SUSMITHA	III/I
11	18J41A0212	DEEKONDA SHIVANI	HI/I
12	18J41A0213	DHANNAMANENI VAMSHI	III/I
13	18J41A0214	ESLAVATH SOWMYA	HI/I
14	18J41A0215	GAJJELA PAVAN KUMAR	III/I
15	18J41A0216	GALI PALLAVI	HI/I
16	18J41A0217	GANDHAM RAVI KUMAR	HI/I
17	18J41A0218	GANTA SAI CHANDU	III/I
18	18J41A0219	GIDDALUR DWARAKAMAYEE	III/I
19	18J41A0220	GOLLA SANDEEP	III/I
20	18J41A0221	GOTTAM BHAVISHYA	111/1
21	18J41A0222	GUTHI HARIBABU	III/I

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	22	18J41A0223	HASTHI SANDESH KUMAR VARMA	111/1
	23	18J41A0224	JAKKULA RAMESH	111/1
ŀ	24	18J41A0225	KALVALA AVINASH	111/1
-	25	18J41A0226	KAMARTHAPU UPENDAR	111/1
-	26	18J41A0227	KARNATI KARTHIK REDDY	III/I
	27	18J41A0228	KARUKULA UDAY KIRAN	111/1
ŀ	28	18J41A0229	KASTURI RAGHUNANDAN	111/1
1	29	18J41A0230	KOLA SAINAVEEN GOUD	111/1
1	30	18J41A0231	KOPPULA LOHITH	III/I
ŀ	31		MACHA VENKATA LAXMI	III/I
	٥,	18J41A0232	PRASANNA	
Ī	32	18J41A0233	MACHUKURU SNEHA RAJ	III/I
Ì	33	18J41A0234	MAHIPATHI AKSHITH	III/I
	34	18J41A0235	MARAGANI MAHATHI	III/I
	35	18J41A0237	MOHAMMED ABDUL TABRAZUL	III/I
		16J41A0257	SOHAIL	
	36	18J41A0238	MYAKA VINAY REDDY	III/I
	37	18J41A0239	MYAKALA SHEKAR	III/I
	38	18J41A0241	NENAVATH AKHIL SAI	111/1
	39	18J41A0242	NHY VAMSI	III/I
	40	18J41A0244	PALLE GURUPRAVEEN REDDY	III/I
	41	18J41A0245	PANTHANGI THRILOKRAJU	HI/I
	42	18J41A0246	PUPPALA NAVEEN	III/I
	43	18J41A0247	PUTTALA ANKITHA	111/1
	44	18J41A0248	RAGU HEMANTH ADI DURGA PHANEENDRA	111/1
	45	18J41A0249	RAMIDI KEERTHI REDDY	III/I
	46	18J41A0251	SHAIK FATHIMA BEGUM	111/I
	47	18J41A0252	SHETTI SOWMYA	111/1
	48	18J41A0253	SIVAKOTI ROHITHCHANDRA	111/1
	49	18J41A0254	SURAM PRASHANTH	111/1
	50	18J41A0255	TANDURI KRISHNA THANUJA	III/I
	51	18J41A0256	THATIKANTI PRAVEEN	111/1
	52	18J41A0258	THUMMA CHAKRITH SAI	111/1
	53	18J41A0259	VANGALA VANITHA SRI	111/1
	54	18J41A0260	YENUGANTI PRANAV GOUD	111/1
	55	19J45A0201	BANDA KOTESWARA RAO	111/1

Malla Reddy Engineering College (Autonomous) Maisammagada, Dhulapally, (Post Via Kongadya, beetbad-50g x 2)

56	19J45A0202	KOTTHA RAMYA	111/1
57	19J45A0203	MANCHALA VAISHNAVI	111/1
58	19J45A0204	MANNE ANIL	III/I
59	19J45A0205	NAGAM PARTHASARADHI REDDY	111/1
60	19J45A0206	SATHELLI DEVENDER	III/I
61	17J41A0207	BANDI SHIVA KUMAR	III/I
62	17J41A0215	CHENNAREDDY PAVANKUMAR	III/I
63	17J41A0222	HANAMKONDA SPARSH	III/I
64	17J41A0219	GOLI HEMANTH	III/I

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 12.09.2020

Report of Value Added Course on Stability Analysis and Control Systems

A five days Value Added Course on "Stability Analysis and Control Systems" was organized by the department of Electrical and Electronics Engineering and the event was coordinated by Mrs. S. Bharathi, Asst. Professor, EEE Department from 07th Sept. to 11th Sept. 2017 and 64 students are attended from III year / 1 Sem. The resource person of the training programme was Dr. P. Raju Naik, Professor, EEE Department, TRR Engineering College, Hyderabad. The participants are trained in the field of Control Systems and its engineering applications. It gave the conceptual level of knowledge to industry standards. This course is further focused on.

- Time response analysis of second order system.
- Time response analysis of second order system using controllers.
- Stability analysis of LTI system by Bode Plot and Nyquist Plot using MATLAB.
- Stability analysis of LTI system by Root Locus using MATLAB.
- State space analysis and compensators.
- State space modelling using MATLAB.
- Practical session on time response analysis of second order system.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING <u>Certificate of Completion</u>

This is to certify that Mrs./Ms./Mr. AMBEDA AMANI bearing Roll Number 17J41A0202has successfully completed Value added Course in "Stability Analysis and Control Systems" Organized by the Department of Electrical and Electronics Engineering from 07-09-2020 to 11-09-2020.

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Coordinator

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Malla Reddy Engineering College

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING <u>Certificate of Completion</u>

This is to certify that Mrs./Ms./Mr. ARUGOLLU SATHISHKUMAR bearing Roll Number 14J41A0205has successfully completed Value added Course in "Stability Analysis and Control Systems" Organized by the Department of Electrical and Electronics Engineering from 07-09-2020 to 11-09-2020.

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Coordinator

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PRINCIPAL COLORS

Principal









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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING <u>Certificate of Completion</u>

This is to certify that Mrs./Ms./Mr. BURUGADDA REVATI SWAPNIKA bearing Roll Number 17J41A0207has successfully completed Value added Course in "Stability Analysis and Control Systems" Organized by the Department of Electrical and Electronics Engineering from 07-09-2020 to 11-09-2020.

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Coordinator

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Maisammaguda, bhulapally

Principal









(Autonomous)

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING <u>Certificate of Completion</u>

This is to certify that Mrs./Ms./Mr. BYREDDY SUPRAJA bearing Roll Number 17J41A0209has successfully completed Value added Course in "Stability Analysis and Control Systems" Organized by the Department of Electrical and Electronics Engineering from 07-09-2020 to 11-09-2020.

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Coordinator

HOD EEL

Principal