



MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)
(An UGC Autonomous Institution. Affiliated to JNTU.H. Hyderabad Accredited 2nd time by NAAC
with 'A' Grade & NBA and Recipient of World Bank Assistance under TEQIP-II S.C. I.I)
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,
Telangana State – 500100
www.mrec.ac.in

Department of Electrical and Electronics Engineering

CIRCULAR

Date: 24.12.2016

All the students are hereby informed that Value Added Course on STABILITY ANALYSIS AND CONTROL SYSTEMS from 2nd Jan – 6th Jan 2017 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 01.01.2017 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.


Head of the Department

Copy to:

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


PRINCIPAL
Malla Reddy Engineering College
(Autonomous)
Maisammaguda, Dhulapally,
(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 infrastructure and well-equipped laboratories in all departments and is skillfully and smartly guided by Dr. A. Ramaswami Reddy, Director, MREC (A) and Dr. Dr. S. Sudhakara Reddy, Principal, MREC (A) who have a rich teaching and industrial experience.

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.S.Sudhakara Reddy
Principal, MREC (A)

Convener: Dr. M. Lakshmi Swarupa
HOD EEE

Coordinator: S. Bharathi
Assistant professor

Resource Person : P Raju Naik,
Professor,

TRR Engineering college
Organizing Committee:

Dr. N. Rajeswaran, EEE
Dr. S. Arumugam, EEE
Dr. M. Lakshmi Swarupa, EEE
Mr. T Suman, EEE
Mr. P. Kamalakar, EEE
Mrs. Y. Sudha Reddy, EEE
Mrs. S. Bharathi, EEE
Mr. K. Shyam Satya Naga Teja, EEE
Mr. Ch.Narendra Kumar, EEE
Mr. V.Ganesh Kumar, EEE
Mr. D Ramesh, EEE
Mrs.K.Anitha Reddy, EEE
Mrs.K.Anitha Reddy, EEE

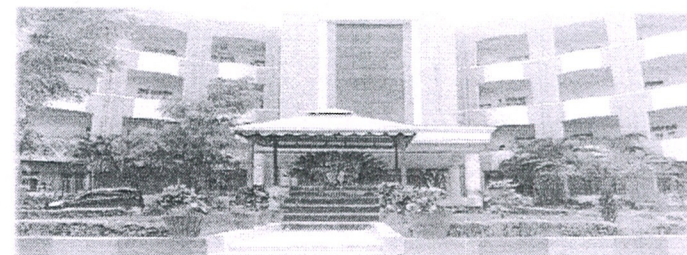


A Five-Day Skill development Course (Value added Course)

On

"STABILITY ANALYSIS AND CONTROL SYSTEMS"

(2nd Jan – 6th Jan 2017)



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
Reaccredited by NAAC with 'A' Grade (II Cycle)
Maisammaguda(H), Gundlapochampally (V),
Medchal (M), Medchal - Malkajgiri District
Telangana - 500100, India.

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(Post Via Kompally), Sec'bad-500100

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

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

on

“Stability analysis and Control systems”

2nd January – 6th January 2017

Programme Schedule

| Date | Time | Topic | Resource Person |
|------------|------------------|--|-----------------|
| 02-01-2017 | 10:10 – 11.00AM | Time response analysis of second order system | P Raju Naik |
| | 11:00 -11:15AM | Tea Break | |
| | 11.15 – 12:45 PM | Practical session on Time response analysis of second order system | |
| | 12:45 – 1:30PM | Lunch | |
| | 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 | |
| 03-01-2017 | 9:30 – 11.00AM | Stability analysis of LTI systems using Root Locus plot | P Raju Naik |
| | 11:00 -11:15AM | Tea Break | |
| | 11.15 – 12:45 PM | Stability analysis of LTI systems using Root Locus plot using MATLAB Simulation | |
| | 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 | |

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| | | | |
|------------|------------------|---|--------------|
| 04-01-2017 | 11.15 – 12:45 PM | Time response analysis of second order system with and without controller | P Raju Naik. |
| | 12:45 – 1:30PM | Lunch | |
| | 1:30 – 2:30 PM | State Space analysis | |
| | 2:30 – 2:45PM | Tea Break | |
| | 2:45 -4:00 PM | State space modeling | |
| 05-01-2017 | 9:30 – 11.00AM | Significance of compensators | P Raju Naik |
| | 11:00 -11:15AM | Tea Break | |
| | 11.15 – 12:45 PM | Types of compensators | |
| | 12:45 – 1:30PM | Lunch | |
| | 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 Transmitter & Receiver pair. | |
| 06-01-2017 | 9:30 – 11.00AM | stability criterion relative stability analysis- | P Raju Naik |
| | 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 | |
| | 1:30 – 2:30 PM | Simulation of second order system with and without controller using MATLAB-Simulink | |
| | 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: 2/1/2017 to 6/1/2017

DEPARTMENT OF ELECTRICAL and ELECTRONICS ENGINEERING

List of Students Enrolled for Value Added Course

Academic Year 2016-2017

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

| Sl.No. | Roll No. | Name of the Student | Year/Semester |
|--------|------------|------------------------|---------------|
| 1 | 14J41A0201 | A PRADEEP KUMAR | III/II |
| 2 | 14J41A0205 | B PAPPI REDDY | III/II |
| 3 | 14J41A0206 | B RAMYA SREE | III/II |
| 4 | 14J41A0207 | B TEJASHWINI | III/II |
| 5 | 14J41A0209 | BANOTH SAINATH | III/II |
| 6 | 14J41A0213 | D SUBASH | III/II |
| 7 | 14J41A0219 | G NIKHITHA | III/II |
| 8 | 14J41A0222 | GUJJULA REETHA | III/II |
| 9 | 14J41A0224 | J V SURESH | III/II |
| 10 | 14J41A0227 | K SRIKANTH | III/II |
| 11 | 14J41A0233 | M A RAHMAN | III/II |
| 12 | 14J41A0234 | M AKHILA | III/II |
| 13 | 14J41A0241 | P KARTHIK REDDY | III/II |
| 14 | 14J41A0246 | RAIKANTI VIJAY | III/II |
| 15 | 14J41A0247 | S DILIP KUMAR | III/II |
| 16 | 14J41A0248 | SABITHI ANAND KUMAR | III/II |
| 17 | 14J41A0250 | T SWATHI | III/II |
| 18 | 14J41A0254 | V JYOTHSNA | III/II |
| 19 | 14J41A0255 | V MANIKANTH ROY | III/II |
| 20 | 14J41A0256 | V PRANAY | III/II |
| 21 | 14J41A0257 | VANGALA THUSHARA LAXMI | III/II |

Ravinder
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| Sl.No. | Roll No. | Name of the Student | Year/Semester |
|--------|------------|---------------------|---------------|
| 22 | 14J41A0258 | Y YESWANTH | III/II |
| 23 | 14J41A0260 | YESU PRASHANTHI | III/II |
| 24 | 14J41A0261 | A KAMALAKAR | III/II |
| 25 | 14J41A0267 | B SRINIVAS | III/II |
| 26 | 14J41A0270 | CELESTIE GLADYS | III/II |
| 27 | 14J41A0272 | CHIPPA SRIKANTH | III/II |
| 28 | 14J41A0286 | K PRAVALLIKA | III/II |
| 29 | 14J41A0296 | M VENU GOPAL | III/II |
| 30 | 14J41A02B3 | T BHASKAR | III/II |


HoD/EEE

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Date: 06.01.2017

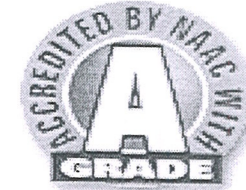
Report of Value Added Course on Stability Analysis and Control Systems

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 02nd Jan. to 06th Jan. 2017 and 30 students are attended from III year / II 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.

Raush
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Mary
HOD EEE



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Certificate of Completion

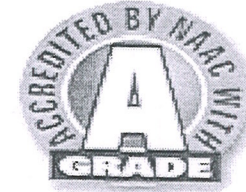
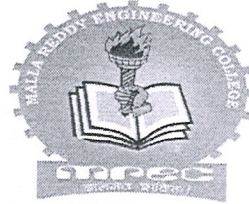
This is to certify that Mrs./Ms./Mr. B PAPPI REDDY bearing Roll Number 14J41A0205 has successfully completed Value added Course in "Stability Analysis and Control Systems" Organized by the Department of Electrical and Electronics Engineering from 02-01-2017 to 06-01-2017.


Coordinator


HOD-EEE

Ravi
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Principal



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Certificate of Completion

This is to certify that Mrs./Ms./Mr. B RAMYA SREE bearing Roll Number 14J41A0206 has successfully completed Value added Course in "Stability Analysis and Control Systems" Organized by the Department of Electrical and Electronics Engineering from 02-01-2017 to 06-01-2017.

[Signature]

Coordinator

Rawud
PRINCIPAL
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Maisammaguda, Dhulapally,
Kompally, Sec'bad-500 100

[Signature]

HOD-EEE

[Signature]

Principal