

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**

**Board of Studies - DEPARTMENT OF MATHEMATICS**

1. Chairman : Dr. V. Ramachandra Prasad
2. Faculty members : 1. Dr. M. Sudhakar Reddy - Head  
2. Dr. S. Gouse Mohiddin  
3. Dr. N. Nagendra .  
4. Dr. K. V. N. Murthy  
5. Dr. A. Subbarao  
6. Dr. S. Jeelani Begum  
7. Dr. P. Kalpana  
8. Dr. R. Saravana  
9. Dr. P. Devaki  
10. Mr. P. Ramesh Reddy
3. Experts in the subject : 1. **Dr. YVSS Sanyasiraju**  
Professor, Department of Mathematics,  
Indian Institute of Technology Madras, Chennai - 600 036, India  
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2. **Dr. Bivudutta Mishra (CO-OPT Member)**  
Associate Professor & Head  
Department of Mathematics  
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3. **Dr. SRINIVAS SURIPEDDI**  
Senior Professor, Fluid Dynamics Division,  
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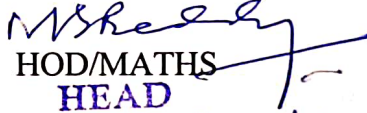
4. Expert in the Subject  
nominated by V.C.:

**DR. G. S.S S. RAJU**  
Professor & Head  
Department of Mathematics  
JNTU College of Engineering Pulivendula  
Email: rajugss@yahoo.com

5. Expert from Industry:

**Dr. Ravindra Babu Tallamraju**  
Data Scientist at Flipkart.com  
Information Technology and Services  
Bangalore - 560034, India  
(Infosys Technologies Ltd, ISRO Satellite Centre,  
Govt. of India, Indian Institute of Science)  
Phone: 09739907725  
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Date of BOS Meeting: 14.05.2015  
Venue: Seminar Hall, MITS, Madanapalle  
Time: 10.00 am

  
HOD/MATHS  
HEAD  
Department of Mathematics  
MADANAPALLE INSTITUTE OF  
TECHNOLOGY & SCIENCE  
MADANAPALLE - 517 525

# Department of Mathematics

## BOARD OF STUDIES MEETING

Minutes of the meeting

14/May/2015

A meeting of Board of Studies (BOS) of the department of mathematics held at 10 A.M. on Thursday, 14<sup>th</sup> May 2015, at Board Room in the college campus.

Members presented:

BOS chairman : Dr. V. Rama Chandra Prasad.

Subject Experts : 1. Dr. YVSS Sanyasiraju  
professor, Dept. of mathematics,  
IITM, Chennai - 600 036

2. Dr. Bivudutta Mishra  
Associate professor & Head  
Dept. of mathematics  
BITS - Pilani, Hyderabad Campus.

3. Dr. Srinivas Susipedi  
Senior Professor, Fluid Dynamics Division,  
SAS, VIT university, Vellore - 632 014

Expert in the subject  
nominated by VC : 4. Dr. G. S. S. Raju  
professor & Head  
Dept. of mathematics  
JNTU college of Engineering, Pulivendula

Expert from Industry : 5. Dr. Ravindra Balru Tallamraju  
Data Scientist at Flipkart. com  
Information Technology & Services  
Bangalore - 560034

Members: 1. Dr. M. Sureshakar Reddy

2. Dr. S. Ghouse Mohiddin

3. Dr. N. Nagendra

4. Dr. K. V. Narasimha Murthy

5. Dr. S. Tealumi Begum

6. Dr. A. Subra Rao

7. Dr. R. Sdavana

8. Dr. P. Kalpana

9. Dr. P. Devaki

10. Mr. P. Ramesh Reddy.

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE**

**DEPARTMENT OF MATHEMATICS**

**BOARD OF STUDIES MEETING**

**Date: 14.05.2015**

Board of Studies Meeting of the department of Mathematics will be held on 14.05.2015 at 10.00 a.m. in the Board Room in the College Campus.

**AGENDA:**

1. Introduce the external experts
2. Opening remarks by BOS Chairman
3. Discuss on the courses
  - a. Differential Equations & Laplace Transforms Syllabus and Handouts
  - b. Probability and Statistics Syllabus and Handouts
  - c. Engineering Optimization Syllabus and Handouts
  - d. Numerical Analysis Syllabus and Handouts
4. Reveal the resolutions made by BOS members
5. Vote of thanks

*M. Reddy*  
**HEAD**

Department of Mathematics  
**MADANAPALLE INSTITUTE OF  
TECHNOLOGY & SCIENCE  
MADANAPALLE - 517 325**

## Differential Equations and Laplace transforms

Resolutions :- Resolve to approve the IT B.Tech I sem Course Structure and Syllabus of Differential Equations and Laplace transforms

The suggestions of B.O.S members are given as follows

1. Course Code is to be change to 14MAT21T03.
2. Capital letters has to change to small letters in the starting of every word.
3. Remove reduction of order in first unit, spelling correction in constant coefficient (constant coefficients)
4. Overall proof reading is required for syllabus and Course handouts.
5. Second order Linear Equations is to come before to power series.
6. Introduce the applications of second order Equations in the beginning of Unit - III
7. Introduce Beta functions in unit - III
8. Remove Gauss's Hypergeometric equation - Hermite polynomials - Chebyshev polynomials in Unit - III
9. Introduce classification, converting to normal forms, Lagrange's method, Charpit's method in P.D.E
10. Add E. kreyszig - Advanced Engineering Mathematics Text book for the purpose to teach P.D.E (First order)
11. Adjust Lecture hours as per the B.O.S suggestions.
12. Change title names of Unit - IV & Unit - V

## Probability & Statistics

Resolutions: Resolve the approve the II B.Tech, II Semester Course structure and the Syllabus of the Probability & Statistics

The following suggestions are advised by the BOS members:

1. Discuss about the Descriptive Statistics and their importance in Cooper three Lectures as Self study
2. Discuss conj. f. in all probability distributions
3. Name all the units as
  1. unit-I Probability & Random Variables
  - unit-II Discrete & Continuous probability distributions
  - unit-III Multivariate Random variables,
  - unit-IV Sampling distributions and Estimation
  - unit-V Testing of Hypothesis
4. Rearrange the contents of the syllabus as per contents of the topics.
5. If time permits, to discuss ANOVA,

# Numerical Analysis

Resolve to approve III B.Tech-I.Sem as an open electives.

The following suggestions are made by the BOS members:

- 1) The term Series solutions has to be eliminated from course description and course objectives.
- 2) One of the point in course outcomes has to be removed related to interpolate polynomials.
- 3) Titles of UNIT I, II, IV & V has to be changed.
- 4) In unit I some topics has to be eliminated.
- 5) Newton's Methods is to be introduced in unit II
- 6) Extrapolation topic is to be removed from unit III
- 7) In unit IV, solutions through a set of equations and derivations are to be removed.
- 8) The Poisson's equation is to be introduced in UNIT-V
- 9) We have to add some geometrical interpretations to the syllabus.
- 10) Add some of the Indian authors in References.

The titles of UNIT I, II, III & V are changed in the following way:

UNIT	OLD TITLE	NEW TITLE
I	Errors & Solutions of Nonlinear Equations in Numerical Methods	Solutions of Transcendental Equations
II	Solving sets of Equations and ordinary Differential Equations	Solutions of Algebraic Equations
IV	Numerical Techniques & ordinary Differential Equations	Numerical solutions of Ordinary Differential Equations
V	Partial Differential Equations	Numerical solutions to Partial Differential Equations

## Engineering optimization

Resolutions: Resolve to approve iii B.Tech - Semester - I for the Group  
EEE Compulsory and remaining branches takes as open electives.

The following are the advised/suggestion given by BOS member.

→ change the tutorial hours from 1 to 2 hrs.

→ interchange units iv and v

→ Name the all units as ~~unit~~

unit - I Linear programming problem

unit - II Duality in LPP.

unit - III Transportation Problem & Goal programming

unit - IV Unconstrained & Constrained optimization

and unit - V Project management & Queuing models.

→ Allocate number Lecturers for units I, II, III, IV & V  
as 3hrs, 8hrs, 8hrs, 10hrs & 12hrs.

Finally, they suggested to change the Advance calculus  
from 11<sup>th</sup> Edition to 12<sup>th</sup> Edition and the Courses are  
as follows:

Advanced calculus — I Year I Semester for all branches

Linear Algebra & Complex Analysis — I Year II Semester "

Differential Equations & Laplace Transform — II Year — I Semester "

Probability & Statistics — II Year — II Semester "

Numerical Analysis

— III Year — I Semester — open Elective

Engineering optimization

— III Year — I Semester Compulsory  
paper for EEE branch and remaining  
branches taken as electives in appropriate  
Semesters.



BOS Chairman

: Dr. V. Ramachandra Prasad

V. Ramachandra Prasad

Members :

1. Dr. YVSS Sanyasi Raju

Yegedide

2. Dr. Bivudatta Mishra  
(Co-opt member)

BMS

3. Dr. S. Srinivas

S. Srinivas

4. Dr. G. S. S. Raju

G. S. S. Raju

Ext. Expert nominated by ve.

5. Dr. T. Ravindra Babu  
(Expert from Industry)

T. Ravindra Babu

1. Dr. M. Sudhakar Reddy,

M. Sudhakar Reddy

2. Dr. S. Ghouse Mohiddin

S. Ghouse Mohiddin

3. Dr. N. Nagendra

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4. Dr. K.V. Narasimha Murthy

K.V. Narasimha Murthy

5. Dr. S. Teelani Begum,

S. Teelani Begum

6. Dr. A. Subba Rao

A. Subba Rao

7. Dr. R. Saravama

R. Saravama

8. Dr. P. Kalpana

P. Kalpana 14/5/2015

9. Dr. P. Devaki

P. Devaki

10. Mr. P. Ramesh Reddy

P. Ramesh Reddy