



**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE  
(UGC-AUTONOMOUS)**



Affiliated to JNTUA, Anantapuramu & Approved by AICTE, New Delhi  
Recognised Research Center, Accredited by NBA, NAAC for CSE, ECE, EEE, ME & MBA  
World Bank funded Institute, Recognised by UGC under the sections 2(f) and 12(B) of the UGC act 1956  
Recognised as Scientific & Industrial Research Organization by DSIR of DST

**Department of Mathematics**

Date: 15-06-2018

**Members of the Board of Studies for the Academic Year 2018-19**

S.No.	Name of the member	Composition as per the UGC-Autonomous guidelines	Designation & Address
1	Dr. Shukla Vidya Prasad	Head of the Department concerned (Chairman)	Professor & HOD, Department of Mathematics, MITS, Madanapalle
2	Dr. Y.V.S.S Sanyasi Raju	Subject Expert	Professor, Department of Mathematics, IITM-Chennai sryedida@iitm.ac.in 091 4422574621
3	Dr. Srinivas Suripeddi	Subject Expert	Professor, Department of Mathematics, VIT-AP University, Amaravathi srinusuripeddi@hotmail.com 9894243574
4	Dr. G. Shobhalatha	Expert nominated by the Vice-Chancellor	Professor & HOD, Department of Mathematics, Sri Krishnadevaraya University, Anantapuramu lathashobha91@gmail.com
5	Dr. Ravindra Babu. Tallamraju	Expert from Industry/ corporation sector	Data Scientist at Flipkart Information Technology & Services, Bangalore avindrababu.t@gmail.com 97399 07725

Dr. Shukla Vidya Prasad  
Professor & HOD  
Mathematics  
MITS, Madanapalle

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

Dr. C. Yuvaraj  
Professor & Principal  
MITS, Madanapalle  
**PRINCIPAL**

Madanapalle Institute of Technology & Science  
PO Box NO. 14, Kadiri Road, Angallu  
MADANAPALLE - 517 325 A P

Department of MathematicsBoard of Studies Meeting

Minutes of the meeting

15  
03/07/2018

A meeting of Board of Studies (BOS) of the department of Mathematics held at 10A on Tuesday i.e. 3<sup>rd</sup> July 2018 at Conference room in the college campus.

## Members Presented:

BOS Chairman : Dr. Shukla Vidya Prabod,  
Professor and head of department of  
Mathematics  
MITS, madanapalle.

Subject Experts : 1. Dr. Y.V.S.S. Sanyasi Raju  
Professor  
Dept. of mathematics  
PITM - Chennai 600 036

2. Dr. Srinivas Sridipedi  
Professor

Department of mathematics  
VIT-AP University  
Amalavathi - 522237

Expert in the subject : 3. Dr. G. Shobhalatha  
nominated by VC Professor and head  
Department of Mathematics  
Sri Krishnadevaraya University  
Anantapur - 515005

Expert from Industry 4. Dr. Ravindra Babu Tallamraju.  
Data Scientist at Flipkart. Com  
Information Technology & Services

## Members:

1. Dr. K.V. Narasimha Murthy
2. Dr. M. Sudhakar Reddy
3. Dr. N. Nagendra
4. Dr. S. Gouse Mohiddin

10  
5. Dr. Bemaki Laidenjam

6. Dr. S. Jeejami Begum

7. Dr. R. Saravama

8. Dr. P. Devaki

9. Dr. A. Subba Rao

10. Dr. B. Venkateswulu

11. Dr. P. Ramesh Reddy

12. Dr. P. Rajendra

13. Dr. Jeeva Satya Singh

14. Dr. G. Ramu

15. Mrs. Soniya Choudhary

16. Mr. Padma Alam

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE  
DEPARTMENT OF MATHEMATICS

BOARD OF STUDIES MEETING

DATE: 03.07.2018

AGENDA: BOARD OF STUDIES MEETING of the department of Mathematics will be held on 03.07.2018 at 10.00 AM at Conference Room in the College campus.

1. Introduce the external experts
2. Opening remarks by BOS Chairman
3. Discuss on proposed regular courses for UG
  - a. CALCULAS AND DEFFERENTIAL EQUATIONS (18MAT105)
  - b. LINEAR ALGEBRA, COMPLEX VARIABLES & NUMERICAL METHODS & TRANSFORM CALCULAS (18MAT107)
  - c. NUMERICAL METHODS & TRANSFORM CALCULAS (18MAT106)
  - d. LINEAR ALGEBRA AND DIFFERENTIAL EQUATIONS (18MAT102)
  - e. LINEAR ALGEBRA (18MAT110)
  - f. COMPLEX VARIABLE AND TRANSFORM CALCULUS (18MAT103)
  - g. PROBABILITY MODELS AND STATISTICS (18MAT111)
  - h. PROBABILITY AND STOCHASTIC PROCESSES (18MAT109)
  - i. PARTIAL DIFFERENTIAL EQUATIONS, PROBABILITY & STATISTICS (18MAT108)
  - j. PROBABILITY AND STATISTICS (18MAT104)
  - k. DISCRETE MATHEMATICAL STRUCTURES (18MAT112)
  - l. ENGINEERING CALCULAS (18MAT101)
4. Discuss on proposed Open Elective Courses
  - a. GRAPH THEORY (18MAT302)
  - b. ADVANCED NUMERICAL METHODS (18MAT301)
  - c. ENGINEERING OPTIMIZATION (18MAT303)
  - d. MATHEMATICAL MODELING AND NUMERICAL SIMULATION (18MAT304)
5. Discuss on proposed regular courses for PG
  - a. DISCRETE MATHEMATICS (18MATP101)
  - b. PROBABILITY AND STATISTICS (18MATP114)
6. Reveal the resolutions made by BOS members
7. Vote of thanks



Head  
Department of Mathematics, MITS

## Engineering Calculus

Resolutions: Resolve to approve the I B.Tech I semester course structure and syllabus of Engineering Calculus for CE, CSE, CSIT, CST, ME and ECE.

The suggestions of BOS members are given as follows:

1. Adjust the Lecture hours and Tutorial hours as per the Academic curriculum design.
2. Spacing corrections should be done.
3. Course title should be either Mathematics-I or Engineering Calculus.

*Saravana*

(Dr. R. Saravana)

*Saravana*  
HEAD  
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## Linear Algebra and Differential Equations

Resolutions: Resolve to approve the J B.Tech II Semester EEE Course structure and syllabus of Linear Algebra and Differential Equations.

The suggestions of BOS members are given as follows:

1. In Unit-I, Introduce the applications of matrices such as Balancing Chemical equations and curve fitting.
2. Remove Euler's equations and add first order differential equations applications, i.e Newton's law of cooling, orthogonal trajectories in unit-II
3. Introduce the topics of Wronskian, ordinary and regular singular points
4. In unit-IV, Include Lagrange method
5. In unit-V, Remove Flow, vibrations and diffusions. Adjust D'Alembert's solution of wave equation, Laplacian equation in plane and one dimensional diffusion equation

N. N. J. 3/7/18

(DR. N. NAGENDRA)

## Complex Variables and Transformational Calculus

Resolutions: Resolve to approve the II B.Tech. I sem CIVIL course syllabus and structure of complex variables and transformational calculus.

The suggestions of BOS members are given below:

1. Remove the topics Laplacian in plane to end of the unit. in unit - V
2. Include Fourier transformation to solve ODE & PDE in place of removed topics of unit - V

Derakif

(Dr. P. Deraki)

Derakif  
HEAD

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## Probability and Statistics

Resolution: resolve to approve the II B.Tech II sem course structure and syllabus of probability and statistics for EEE, Civil

The following suggestion is given by the N.C.S. members.

1. Add "point and Interval estimation" technique in the Unit-V.

P. Ramesh Reddy

(Dr. P. RAMESH REDDY)

M. S. G.

- HEAD

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## Calculus and Differential Equations

Resolution: Resolve to approve the I.B.Tech. I Sem syllabus and structure of calculus and Differential Equations for EEE.

The following suggestions is given by the BOS members:

1. Remove Beta & Gamma functions and their properties in unit-1.
2. Remove Tangent plane & Normal line in unit-2
3. Remove Triple integrals, curl & divergence in unit-3
4. Remove method of variation of parameters in unit-4
5. Remove Power series Taylor's series, series for exponential, Trigonometric & logarithmic functions in unit-5.
6. Change 2<sup>nd</sup> order D.E's from variable coefficients to constant coefficients in unit-4.

*Devaki*

(Dr. P. Devaki)



# Linear Algebra and Transform Calculus

## Resolution 6 -

The structure and course contents are good, but they modify of the following.

1. Due to heavy syllabus, they suggested to remove unit-2 Numerical methods, because numerical methods exists at open elective

2. We divided unit-5 into two units.

i.e. Unit-4      Fourier Transforms

Unit-5      Z-Transform

(Rev)  
Ramu-G

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Linear Algebra Complex Variables and Ordinary differential eqnsResolution :-

The structure and course contents are good and well ordered

The suggestions are as follows suggested by external

- (i) Use only two text books in place of 4 books
- (ii) Remove Euler equation from unit 2
- (iii) Lecture hours modified

*Helele*

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*SKS*

Dr. Kumar Satya Singh

24  
partial Differential Equation, probability and statistics

Resolutions: Resolved to approve the U B.Tech. 3<sup>rd</sup> Semester for Mechanical Engineering and the syllabus of partial Differential Equations, probability and statistics

The following suggestions are advised by the BOS members.

1. Rearrange the topics in PDE of unit - I
2. Align the contents. ~~correct~~
3. Modified course outcomes.

*[Signature]*

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*[Signature]*  
(Dr. G.V. Narasimha murthy)

## Probability and Stochastic Processes.

Resolutions: Resolved to approve the II B.Tech - I Semester course for Communications Engineering Branch and the syllabus.

The following suggestions are advised by the BOS members:

1. ~~Changing~~ <sup>with</sup> the title of the "probability and stochastic processes" as "probability Theory and stochastic processes".
2. Revised course objectives and outcomes.

*[Signature]*

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*[Signature]*

(Dr. K.V. Narasimha Murthy)

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## Linear Algebra

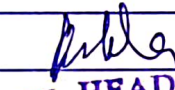
Resolutions:- Resolved to approve the I B.Tech. II Semester for CSE, CSIT and IT

The following suggestion is given by the B.O.S members:

1. To change from linearly independent-dependent to linear independence in Unit 2.

Bunaki L.  
03/07/2018.

(Dr. Bunaki Laksujam)

  
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## Probability Models and Statistics

Resolutions: Resolve to the approve the II B.Tech I semester for  
'CSE, CSIT and CST and the syllabus of the course  
probability models and statistics

The following suggestions are advised by the BOS members

Revised the course objectives and outcomes of the course

*[Signature]*

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*[Signature]*

Dr. K.V. Narasimha Murthy

DISCRETE MATHEMATICAL STRUCTURES.

Resolutions: Resolve to approve the II B.Tech II Sem CSE, CSIT, CST course structure and Syllabus of Discrete Mathematical Structures.

The suggestions of BOS members are given as follows.

- 1) Adjust the lecture, tutorial and practical hours as 3, 1 and 0 with 4 credits.
- 2) Introduce Algorithms (Dijkstra's, Kruskal's) in Unit V.

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S. Gouse Moh.  
(Dr. S. Gouse mohiddin)

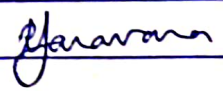
## Advanced Numerical Methods

Resolutions: Resolve to approve the III B.Tech I Semester open elective <sup>course</sup> Structure and syllabus of Advanced Numerical methods.

The suggestions of BAs members are given as follows:

1. Adjust the Lecture, tutorial and practical hours as 3,0 and 0 with 3 credits
2. Introduce matlab to students at the beginning of the course.
3. Provide Exercises of Numerical Computational methods to students through Matlab.
4. Execute the numerical program through Matlab to obtain solutions to a few assigned problems in class rooms

  
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(Dr. R. Saravana)



## Graph Theory

Resolution: Resdue the approve of III B.Tech-I Semester open elective course structure and finalized the syllabus of Graph Theory.

The following suggestions are advised by the BOS - Members.

Agreed the structure of the units and the contents, and suggested to follow the new versions of the text Books.

*[Signature]*

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*[Signature]*  
(Dr. S. JEELANI BEGUM)

## Engineering optimization

Resolution: Resolved to approve the II B.Tech-II semester open elective course structure and the syllabus of Engineering optimization

The following suggestions are advised by the BOS members.

Introduce the text book Homiy A. Taha for

E.O. ~~course~~ to cover some topics.

*[Signature]*

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*[Signature]*

CO-ORDINATOR

MATHEMATICAL MODELING AND NUMERICAL SIMULATIONResolution:

The course is well and formed nicely,

The suggestions are as follows

① Add Introduction part of WRF in units  
v.

② ① useful for mechanical and civil engineering students

*Sid*

HEAD  
Department of Mathematics  
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*K.S*

Dr. Kumar Satya Sid

## DISCRETE MATHEMATICS

Resolution : Resolve to approve the MCA I year I Semester regular course Discrete Mathematics structure and syllabus.

The suggestions of BOS Members are as follows :

Change the order of the units based on the learning approach of the contents  
i.e., I Unit as II Unit and vice versa.

Suggested to follow new version of text books.

*[Signature]*

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*[Signature]*

(DR. S. JEELANI BEGUM)

## Probability and Statistics

Resolution: ~~The~~ resolve to approve the IMCA - II Semester probability and statistics course structure and syllabus.

The following suggestion is endorsed by the B.O.S. experts in the meeting.

1. Add introduction of sampling in the IV unit before explaining testing of hypothesis.

*P. N. K.*

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*P. N. K.*

(Dr. P. N. K. Reddy)

BOS Chairman : Dr. Shukla Vidya Prasad.  
*Shukla*

BOS Members

1. Dr. Y.V.S.S. Sanyaliraju

*Y.V.S.S.*  
3/7/18

2. Dr. S. Srinivas

*S. Srinivas*

3. Dr. G. Shobhalatha  
 (Subject expert nominated by VC)

*G. Shobhalatha*  
3/7/18

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

Approved by him through  
 email as he went abroad  
*T. Ravindra Babu*  
3.7.18.

1. Dr. B.V. Narasimha Murthy

*B.V. Narasimha Murthy*  
3/7/18

2. Dr. M. Suthakar Reddy.

*M. Suthakar Reddy*  
3/7/18

3. Dr. N. Nagendra

*N. Nagendra*  
3/7/18

4. Dr. S. Ghouse Mohiddin.

*S. Ghouse Mohiddin*  
03/07/18

5. Dr. Benaki Laisanjam

*Benaki Laisanjam*  
3/07/2018

6. Dr. S. Teelani Begum

*S. Teelani Begum*  
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7. Dr. R. Saravane

*R. Saravane*  
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8. Dr. P. Aevaki

*P. Aevaki*  
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9. Dr. A. Subba Rao

*A. Subba Rao*  
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B. Venkateswulu

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P. Ramesh Reddy

12. Dr. P. Rajendra

P. Rajendra

13. Dr. K. Satya Singh.

K. Satya Singh

14. Dr. G. Rama

G. Rama

15. Ms. Sonia Chaudhary

Sonia Chaudhary

16. Mr. Parvez Alam

Parvez AlamParvez Alam

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