NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade

DEPARTMENT

OF

BASIC SCIENCES AND HUMANITIES (MATHEMATICS)

BOARD OF STUDIES MEETING

DATE: Thursday, March 15, 2018

VENUE: HOD Mathematics Room(C 425), NHCE.

TIME: 10.00 am onwards

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AGENDA FOR THE MEETING

Agenda 1 Introduction to III and IV semester ENGINEERING MATHEMATICS
Introduction to I and II semester APPLIED MATHEMATICS

Agenda 2 Discussion on syllabus for

a. ENGINEERING MATHEMATICS-III (MAT31)
b. ENGINEERING MATHEMATICS-IV (MAT41)
c. BASIC ENGINEERING MATHEMATICS-I (DMAT31)
d. BASIC ENGINEERING MATHEMATICS-II (DMAT41)
e. APPLIED MATHEMATICS-I (MAT11)
f. APPLIED MATHEMATICS-II (MAT21)

Agenda 3 Discussion on CIE and SEE

Agenda 4 Syllabus finalization and Approval

LIST OF MEMBERS

Sl. No.	Category	Nomination of the committee	Name of the person
1	Head of the Department	Chairperson	**Dr. Srinivasa G.,** Professor & HOD
2	Faculty member at different level with different specialization	Member	
		1	**Dr. Vijilus Helana Raj,** Professor & COE
		2	**Dr. J. Kavitha,** Associate Professor
3	Subject expert from outside the college nominated by Academic Council	Member	
		1	**Dr. N. Shivakumar** Professor and Head Department of Mathematics R.V. College of Engineering Bengaluru-560059
		2	**Dr. N. L. Ramesh** Professor and Head Department of Mathematics M. S. Ramaiah Institute of Technology, Bengaluru-54
4	Experts from outside the college nominated by Vice Chancellor	Member	
		1	**Dr. H. B. Muralidhara** Associate Professor CIIRC, Jyothi Institute of Technology Tataguni, Off Kanakapura Road,Bengaluru-82
5	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Member	
		1	**Dr. Sandeep Kumar,** Professor, Raman Research Institute, Bangalore.
6	Post Graduate meritorious alumni nominated by Principal	Member	
		1	**Mr. Nithin P V,** MEE 2012-16 Batch Graduate Student, University of North Carolina, Charlotte, USA
7	Co-opted members	1	**Mr. Chitirala Subrahmanyam,** Assistant Professor

LIST OF MEMBERS PRESENT

Sl. No.	Name	Signature
1	**Dr. Srinivasa G.,** *Professor & HOD*	18/3/18
2	**Dr. Vijilus Helana Raj,** Professor & COE	
3	**Dr. J. Kavitha,** Associate Professor	J. Kavitha
4	**Mr. Chitirala Subrahmanyam,** Assistant Professor	15/3/18
5	**Dr. N. Shivakumar** Professor and Head Department of Mathematics R.V. College of Engineering Bengaluru-560059	Shivakumar.N
6	**Dr. N. L. Ramesh** Professor and Head Department of Mathematics M. S. Ramaiah Institute of Technology, Bengaluru-54	
7	**Dr. H. B. Muralidhara** Associate Professor CIIRC, Jyothi Institute of Technology Tataguni, Off Kanakapura Road, Bengaluru-82	

WELCOME ADDRESS BY THE CHAIRMAN OF BOS AND INTRODUCTION OF MEMBERS

Minutes

Dr. Srinivasa G., Head-Department of Mathematics, Chairman-BOS Mathematics welcomed each and every member present under the Board. The Chairman explained the purpose and significance of the meeting in his address. Then he individually introduced invited members along with the faculty members of Mathematics Department.

AGENDA -1

TITLE	Introduction to III and IV semester Engineering Mathematics Introduction to I and II semester Applied Mathematics

Minutes

Introduction of

a. **ENGINEERING MATHEMATICS-III (MAT31)-Common to all Branches in III semester**

b. **ENGINEERING MATHEMATICS-IV (MAT41)-Common to all Branches in IV semester(Except BTE)**

c. **BASIC ENGINEERING MATHEMATICS-I(DMAT31)-Common to all Branches in III semester(Except BTE)**

d. **BASIC ENGINEERING MATHEMATICS-II(DMAT41)-Common to all Branches in IV semester(Except BTE)**

e. **APPLIED MATHEMATICS-I(MAT11)-Common to all Branches in I semester**

f. **APPLIED MATHEMATICS-II(MAT21)-Common to all Branches in II semester**

AGENDA -2

TITLE Discussion on syllabus

Minutes

1. **ENGINEERING MATHEMATICS-III (MAT31)**

   Module 2: Convolution theorem included

2. **ENGINEERING MATHEMATICS-IV (MAT41)**
   Module 1: Single Step method: Picard's Method and Multistep methods: Adams-Bashforth predictor and corrector method are removed. Numerical Solutions of second order ordinary differential equations by Runge-Kutta method of fourth-order-Problems included.
   Module 3: Cauchy's integral formula Statement only.
   Module 4: Uniform distribution included.
   Module 5: Sampling theory is removed from the syllabus.

3. **BASIC ENGINEERING MATHEMATICS-I (DMAT31)**
   No change in the syllabus

4. **BASIC ENGINEERING MATHEMATICS-II (DMAT41)**
   No change in the syllabus

5. **APPLIED MATHEMATICS-I (MAT11)**
   Module 1: Curvature and radius of curvature & Applications introduced in place of solid geometry.
   Module 3: Integral Calculus and Applications introduced in place of Vector Calculus.
   Module 4: Applications of ODE of first order introduced in place of Integral Calculus.

6. **APPLIED MATHEMATICS-II (MAT21)**
   Module 1: Applications of Linear differential equations of second and higher order Introduced.
   Module 3: Vector Calculus and Applications introduced in place of Integral Calculus.
   Module 4: Infinite and Power Series Solution introduced in place of Laplace transforms.
   Module 5: Here Laplace and Inverse Laplace transforms merged.

AGENDA -3

TITLE	Discussion on CIE and SEE

Minutes

BOS Members accepted the CIE and SEE patterns without any modifications in MAT1, MAT21, MAT31, MAT41, DMAT31 and DMAT41 (Syllabus Copies attached).

Assessment Pattern for MAT11 & MAT21: CIE- Continuous Internal Evaluation (50 Marks).

Bloom's Category	Tests (25 Marks)	Assignments (15 Marks)	Quizzes (10 Marks)
Remember	5	5	-
Understand	5	5	-
Apply	5	5	10
Analyze	5	-	-
Evaluate	5	-	-
Create	-	-	-

Assessment Pattern for MAT31 and MAT41: CIE- Continuous Internal Evaluation (50 Marks).

Bloom's Category	Tests (25 Marks)	Assignments (10 Marks)	Quizzes (5 Marks)	Curricular/Co-Curricular Activities (10 Marks)
Remember	5	5	-	-
Understand	5	5	-	-
Apply	5	-	5	10
Analyze	5	-	-	-
Evaluate	5	-	-	-
Create	-	-	-	-

SEE- Semester End Examination (50 Marks).

Bloom's Category	Questions (50 Marks)
Remember	10
Understand	10
Apply	20
Analyze	5
Evaluate	5
Create	-

Assessment Pattern for DMAT31 and DMAT41:

CIE- Continuous Internal Evaluation (25 Marks)

Bloom's Category	Tests (20 Marks)	Assignment (5 Marks)
Remember	5	-
Understand	5	5
Apply	5	-
Analyze	2.5	-
Evaluate	2.5	-
Create	-	-

SEE- Semester End Examination (25 Marks)

Bloom's Category	Questions (25 Marks)
Remember	5
Understand	10
Apply	5
Analyze	2.5
Evaluate	2.5
Create	-

AGENDA -4

TITLE Syllabus finalization and Approval

Minutes

The presented syllabus was approved with slight modifications in total consonance of all members for the academic year 2018-2019 (MAT11, MAT21, MAT31, MAT41, DMAT31 and DMAT41 Syllabus Copies attached).

RECOMMENDATIONS OF THE BOARD

1. The BOS members suggested very minor Change in the ENGINEERING MATHEMATICS-III (MAT31)
   Module 2: Convolution theorem included

2. The BOS members strongly recommended to do the following changes in Module 1, 3, 4, 5 in ENGINEERING MATHEMATICS-IV (MAT41)
   Module 1: Single Step method: Picard's Method and Multistep methods: Adams-Bashforth predictor and corrector method are removed. Numerical Solutions of second order ordinary differential equations by Runge-Kutta method of fourth-order-Problems included.
   Module 3: Cauchy's integral formula Statement only.
   Module 4: Uniform distribution included.
   Module 5: Sampling theory is removed from the syllabus.

3. NO Syllabus change in BASIC ENGINEERING MATHEMATICS-I (DMAT31) and in BASIC ENGINEERING MATHEMATICS-II (DMAT41).

4. The BOS members recommended to do the following changes in APPLIED MATHEMATICS-I (MAT11)
   Module 1: Curvature and radius of curvature & Applications introduced in place of solid geometry.
   Module 3: Integral Calculus and Applications introduced in place of Vector Calculus.
   Module 4: Applications of ODE of first order introduced in place of Integral Calculus.

5. The BOS members recommended to do the following changes in APPLIED MATHEMATICS-II (MAT21)
   Module 1: Applications of Linear differential equations of second and higher order Introduced.
   Module 3: Vector Calculus and Applications introduced in place of Integral Calculus.
   Module 4: Infinite and Power Series Solution introduced in place of Laplace transforms.
   Module 5: Here Laplace and Inverse Laplace transforms merged.

Name and Signatures of all the Attendees:

Sl. No.	Name	Signature	Sl. No.	Name	Signature
1	**Dr. Srinivasa G.,**	18/3/18	8		
2	**Dr. Vijilus Helana Raj,**		9		
3	**Dr. J. Kavitha,**	J. Kavitha	10		
4	**Mr. Chitirala Subrahmanyam,**	15/3/18	11		
5	**Dr. N. Shivakumar**	Shivakumar	12		
6	**Dr N. L. Ramesh**		13		
7	**Dr. H. B. Muralidhara**		14		

VOTE OF THANKS BY THE CHAIRMAN-BOS

The Chairman- BOS, Dr. Srinivasa G., proposed the vote of thanks. He individually thanked the BOS members for their committed participation in the discussion and for their valid inputs of the courses. The Chairman involved himself in the discussion and interacted in-depth with the subject experts. The internal subject experts also thanked everyone for their valuable contribution that lead to the success of the maiden BOS meeting of the Mathematics Board.