New Horizon College of Engineering (Autonomous college, affiliated to VTU)

Department of Basic Sciences and Humanities

BOARD OF STUDIES MEETING

A-Y 2017-1

DATE: 15TH June 2017

VENUE: : Conference Hall, SBS Block, NHCE

TIME: 9.30 am onwards



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NEW HORIZON COLLEGE OF ENGINEERING

BOARD OF STUDIES MEETING

DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

AGENDA

- Agenda 1: Introduction to I Year scheme of BE (common to all branches)
- Agenda 2: Discussion on syllabus for
 - a. Engineering Physics
 - b. Engineering Chemistry
 - c. Mathematics
 - 1. Engg. Mathematics I
 - 2. Engg. Mathematics II
 - 3. Applied Mathematics for M Tech
 - 4. Advanced Mathematics for M Tech
 - 5. Discrete Mathematics and graph theory for MCA

{Including discussion on course outcomes, Text and Reference books, Self Study, if applicable}

- Syllabus finalization and Approval
- Discussion on CIE and SEE

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Recather

CONTENTS

Sl. No	PARTICULARS	Page Nos
1	Members of the Board of Studies	25
2	Welcome address by Chairman of BOS and Introduction of members	
3	Agenda 1: Introduction to I Year scheme of BE (common to all branches)	
4	Agenda II: Discussion on syllabus for	
	a. Engineering Physics b. Engineering Chemistry c. Mathematics 1. Engg. Mathematics I 2. Engg. Mathematics II 3. Applied Mathematics for M Tech 4. Advanced Mathematics for M Tech 5. Discrete Mathematics and graph theory for MCA	
5	Agenda III: Syllabus finalization and Approval	
6	Agenda IV: Discussion on CIE and SEE	
7	Recommendations of the Board	
8	Vote of thanks	



MEMBERS OF THE BOARD OF STUDIES

(LIST TO BE INCLUDED)

SI No	Category	Nomination of the Committee	Name of the Person
1	Head of the Dept Physics		Dr.Revathi V, Professor and HOD Quotes
	Head of the Dept Chemistry	Chairperson	Dr.Anasuya Devi V S, Professor and HOD
	Head of the Dept Mathematics		Dr.Srinivasa G, Professor and HOD
2	Faculty Members at different	1	Dr. Vijilus Helena Raj, Assoc Prof, Maths
	level veering different specializations	2	Mr. Ananda K, Sr. AP, Maths
		3	Mr. Prashanth K S, Sr. A P, Physics
		4	Ms. Bhavya P, AP, Physics
		5	Ms. Padma N. Sr. AP, Chemistry
		6	Ms. Subhashini K, AP, Chemistry \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
3	Subjects Experts from outside the College nominated by Academic Council	1	Dr. Rajanna KR, Prof & HOD, Dept of Mathematics, Acharya Institute of
	Source .	2	Technology, Bangalore. Dr. Sankar M
		2	Professor, Mathematics, East Point College of Engineering & Technology, Bangalore.
		3	Dr. Bhuvaneswar Babu Prof and HOD, Dept of Physics RVCE(Autonomous) Bangalore.
	at	4	Dr. Hariharan Nalatore, Assoc. Prof., Dept of Physics, SMVIT, Bangalore.
(* LE)	5	5	Dr. S. Satyanarayana Professor, Dept of Chemistry RVCE(Autonomous) Bangalore.
5	Expert from outside college, nominated by Vice-Chancellor	Member	VTU Nominee
6	Representative from Industry/corporate sector/allied area relating to placement nominated by Academic Council		Dr. Sandeep Kumar, Professor, Raman Research Institute, Bangalore.

7	Meritorious alumnus nominated by Principal	Member	Mr.Nithin P V, ME 2012-16 Batch Quality Manager, Microtech CNC.
8	Co-opted member		Ms. Asha K (Maths) Ms. Jisha P K (Physics) Mr. Parasuram L (Chemistry)
9	Special Invite©		Dr, Manjunatha Principal
10.	Special Invite@		Dr. CSR Prashanth Dean Academics

MEMBERS PRESENT

(LIST TO BE INCLUDED)

SL. NO.	NAME	DESIGNATION AND AFFILATION	EMAIL ID & PHONE NUMBER	SIGNATURE
1.	Dr. Revathé	HOD- Phylics, NHCE	revision Colorpo	Resorthis
2.	Dr. Bhuvanashwara	Professor + Hop	Thuranegwart to	Bhuvan
3.	Dr. Haribaras N	HOD, SIR. MUIT.	n-haran@gahoo:	Mariharen
4.	Mr. Nithin. P.V	QL - Aligh Tah (NC	nithinproadgmille	om NID RV.
5.	Mr. Prashanth K 9	SNAP Phy, NHCE	Prosherth, Kalendali Ogmoil um, 9986248344	(prince Ks)
6.	M.S. Bhavya P	sor Ap(2) Phy NHCC	Bharyapes Ognail-com	JR 3
4	•	STAP PLY NHCE	Jishasab 13@gmal.	um A pages
8.	K- Subashini	ST-AP. Che, NHCE	Subadivakrishna@gmai	1- le- busullo
9.	L. parashuran L.	AP Chern NHCE	ramacaderny199	3 4
10	S. Satyanal ayane	R.V. College & Ensy.	Batya: Sa rvce.	M. M
11.	Sandrep Kumar		Skumer@ 771, 28,4	Sander Kumy
12	Dr. Anusya.	Horz-chem pites	andinglismit	m FISIL
13.	Dr. SRIMLVASA G.	Port & Head Math	2 a gmailicon	45
14	Dr. Rajanna 16 12	mor & Heard AIT BL	9469813883	A alla
15	Aromola. K	Sr Assi prof pince	9845475728 angualakinhee Egnet	1
16	Dr. Vinliu Helag Raj	ASSO. Port NHEE	Vi (10934537329)	***************************************
12	Asha. L	A D		1 71 0
18.	Mrs. Palme. N.		ashajanavin (a) ging	
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WELCOME ADDRESS BY THE CHAIRMAN OF THE BOS AND INTRODUCTION OF MEMBERS

Minutes:

Dr. Revathi V, HOD Dept Physics, Chairman BOS Physics welcomed each and every member present under BS Board. She explained the purpose and significance of the meeting in her address. Then she individually introduced invited members both from academic and industry, followed by HODs, - Dr, Srinivasa G (HOD- Mathematics), and Dr. Anusuya S V (HOD-Chemistry) along with the faculty members from department under Mathematics, Physics and Chemistry subjects.

NEW HORIZON COLLEGE OF ENGINEERING DEPARTMENT OF BASIC SCIENCES AND HUMANITIES 2nd BOARD OF STUDIES MEETING AGENDA -1

TITLE OF AGENDA: Introduction to I Year scheme of BE (common to all branches)

Minutes:

Welcome and Introduction session of members was followed by introducing the Scheme of I & II Semesters under Physics and chemistry cycles (2017-18).

Thereafter, Chairman BOS Physics opened the meet individually for discussing the drafted syllabus under Mathematics (for BE, MTech and MCA), Engg Physics and Engg Chemistry subjects in forms of three sub-divisions of the BS Board at the same venue. Then, the process continued with the discussion on the each syllabus and scheme by the subject specific BOS members.



NEW HORIZON COLLEGE OF ENGINEERING DEPARTMENT OF BASIC SCIENCES AND HUMANITIES 2nd BOARD OF STUDIES MEETING AGENDA -2

TITLE OF AGENDA 2 : Discussion on syllabus for subjects under each division of BS under BSH : Mathematics, Physics and Chemistry

Minutes of Meeting

1. Mathematics

{Including discussion on course outcomes, Text and Reference books}

All concerned members had a detailed discussion about the syllabus for all Mathematics Subjects. Suggestions given by Dr. Rajanna K R, Prof & Head Dept of Mathematics, AIT and other members were recorded. Dr. Srinivasa G, HOD Mathematics, also expressed his views. The Alumini Member Mr. Nithin P V Suggested that inclusion of MATLAB in curriculum or as a certificate course will be of much use for the students in their Projects or in the their higher studies. Dr. Srinivasa G has taken this suggestion and told necessary action to be taken in future semesters. Useful suggestions were recorded as recommendations.

2. Engineering Physics

{Including discussion on course outcomes, Text and Reference books, Self Study}

All concerned members had a detailed discussion about the syllabus for theory and lab. Suggestions given by Dr. Bhuvaneshwar Babu, Prof & Head Dept of Physics, RVCE Dr. Hariharan N Prof. Dept of Physics, MVIT and other members were recorded. Dr. Revathi V, HOD Physics, also presented her thoughts. Discussion pertained to all five modules along with Lab Experiments are recorded. Useful suggestions were recorded as recommendations.

3. Engineering Chemistry

{Including discussion on course outcomes, Text and Reference books, Self Study}

All concerned members had a detailed discussion about the syllabus for theory and lab. Suggestions given by Dr.S. Satyanarayana, Prof. Dept of Chemistry, RVCE Dr.Sandeep Kumar Prof. RRI, and other members were recorded. Dr. Anasuya Devi V S, HOD Chemistry, also presented her thoughts. Discussion pertained to all five modules along with Lab Experiments are recorded. Useful suggestions were recorded as recommendations.



NEW HORIZON COLLEGE OF ENGINEERING DEPARTMENT OF BSH 2nd BOARD OF STUDIES MEETING AGENDA – 3 Syllabus Finalization and Approval

Minutes:

RECOMMENDATIONS OF THE BOARD (BS: Engg Physics)

Module 1:

- Suggested to remove Davisson and Germer experiment.
- Recommended to include SEM(Qualitative discussion)
- In Quantum mechanics suggested to change sequence of the topics.
- Suggested to discuss broadening of spectral line as application of HUP.

Module2:

Approved the unit

Module3:

Approved the unit

Module4:

- Proposed to include discussion on variation of Fermi level with doping concentration along with temperature.
- Recommended that fabrication of semiconductors by lithography to be given as self study topic.
- Suggested that applications to be discussed on Hall Effect.
- Proposed to include Hall Effect experiment.

Module5:

Suggestion given to replace nanomaterials synthesis of CVD by PVD.

Dr. Bhuvanisana Basu. 7 Bhuvani.

2) Dr. Hariharan N, Dairhanan

3) Mr. Nithin P.V. NID PIV.

4. levathi. V

5). Prasharth. N. S

Bhayar P

Bhayar P

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NEW HORIZON COLLEGE OF ENGINEERING DEPARTMENT OF BSH 2nd BOARD OF STUDIES MEETING AGENDA – 3

Syllabus Finalization and Approval

Minutes:

RECOMMENDATIONS OF THE BOARD (BS: Engg Chemistry)

MODULE 1: * To add EMF of the Cell, electrochemical conventions, and problems.

+ To mention specific Li-ion battery (Li-CoO2)

MODULE 2:-, To add organic additives and delimination

of throwing power of plating bather by Harring-Blum cel.

MODULE:3: > Anchode the mechanism of knocking in Diesel Engine.

> To include disenligized solar cell as a SSA topic

MODULE: 4 > Minos corrections are suggested with respect to title of the experiments.

MoDULE: 5: To include poly lastic acid synthesis and applications in bio-degradable polymess.

Others: - , Suggested to restrict the maximum number of Cos to 4, which shall be mapped to all 5 modules and Blooms Taxanony levels.

> Suggested to avoid giving assignment and to give more weightage to SSA and quiz.

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Page **9** of **11**

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RECOMMENDATIONS OF THE BOARD (BS: Mathematics)

Syllabus discussed in detail and the following recommendations were drafted:

Engg. Mathematics I(17MAT11):

Module 4:

- To introduce Eigen values and Eigen Vectors of a square matrix.
- 2. To remove curve tracing of three and four leaved rose.

Module 5:

To remove the solution of system of linear equations by LU-Decomposition method.

Engg. Mathematics II (17MAT21):

Module 2:

- 1. To remove solution of Homogeneous linear P.D.E with constant coefficients.
- 2. To remove stretched string, heat flow concepts.
- 3. To introduce various possible solutions of heat, wave and Laplace equations.

Module 3:

To remove application of triple integrals to find volume of revolution.

Module 4:

- 1. To mention the problems on properties of Laplace Transforms of shifting property, $t^n f(t)$ and $\frac{f(t)}{t}$ forms.
- 2. To change inverse Laplace Transforms as Module No.5
- 3. To shift Initial and Final Value theorem to Module No.5

Module 5:

- 1. To change the module name as Inverse Laplace Transforms.
- 2. To remove proof of Convolution Theorem.
- 3. To remove problems on Initial and Final Value theorem.
- To remove to find Matrix exponential for second order homogeneous and non-homogeneous system by Laplace Transform and spectral form of second order systems

Discrete Mathematics (17MCA11):

Module 2:

To change proofs of theorem to introduction of proofs and disproofs.

• Applied Mathematics (17ECE11):

Module 1:

- 1. To introduce Gauss-Seidel iterative method
- 2. To introduce Power method
- 3. To remove SOR method.
- 4. To remove Gershgorin circle theorem
- Advanced Mathematics (17MMD11):

Module 1:

- 1. To introduce Gauss-Seidel iterative method
- 2. To introduce Power method
- 3. To remove SOR method.
- 4. To remove Gershgorin circle theorem

Module 2:

- 1. To introduce Trapezoidal rule, Simpson's 1/3rd rule & Simpson's 3/8th rule.
- 2. To remove integration of equations.

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Name and Signatures of all the Attendees:

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	1. Chairman BOS-Physics Powerful	11. Chairman BOS-Mathematics
	2. Nithin P.V. NID-P.V. 3. Dr. Hariharan N. Dariharan	12. Dr. Vijilius Helana Raj
	3. Dr. Hariharan N. (Dariharan	13. Dr. Rajanna K. R N
	4. Dr. Bhevonshwordshu Bruvan	14. Ananda K
	5. Prosherth. RS Job 6. Chairman-Bos of Lage	15. Asha. K Mel
	6. Chairman-Bos of cal	16. Bharya.P R
	7. Suphenhini. K, le sulest	17. Jisha P. W. Agrushs
	8. Parashuram. Lit	- 18. Mrs. Padra Mede.
	9. Prof-Sala Navagana Mut	19.
	10. D. Sandeep Kumas. Sandap Ku	~\ <u>^</u> 20.

VOTE OF THANKS BY THE CHAIRMAN-BOS

Chairman BOS-Chemistry & HOD-Chemistry, Dr. Anasuya Devi V S took the lead in acknowledging the presence of each of the members. She thanked all members from academic and Research institute with HODs of each subject and faculty members under BSO –BS.

She applauded their valuable inputs in deliberation in the meeting and appreciated their contribution of worthy suggestions towards fine tuning the syllabi presented under Autonomous status of NHCE. Thus, Dr Rajanna, K R, Prof & HOD, Dept of Mathematics, AIT were thanked profoundly for discussing all 5 syllabus under Mathematics. Dr. Srinivasa G and Dr Vijilius also thanked the said members.

Chairman BOS specially thanked external BOS members for Engg Chemistry, Dr. Sathyanarayana, Professor, Dept of Chemistry, RVCE for his commendable inputs and presence. Elegant presence of Dr. Sandeep Kumar, Professor, Raman Research Institute was also duly acknowledged.

Dr.. Bhavaneswar Babu, Prof and HOD Dept of Physics, RVCE was credited and profoundly thanked for his inputs in finalizing the tabled Engg Physics syllabus. Mrs. Revathi Joined her in thanking Dr. Hariharan, Prof, Dept of Physics, Sir MVIT.

The presence of alumini member Mr.Nithin P V, (2012-16 Batch Mechanical Engg. Student) was greatly acknowledged for his insightful inputs by Chairman and members of BOS of BS Board.