

# **New Horizon College of Engineering**

**Department of Electronics and Communication Engineering**

## **BOARD OF STUDIES MEETING - 6**

**DATE:** 27/06/2020

**VENUE:** Department of ECE (Online)

**Time:** 10 AM to 1:30 PM

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### **AGENDA**

1. Discussion on Scheme and Syllabus of B.E Courses for 3<sup>rd</sup> year.
2. Revision of B.E. 3<sup>rd</sup> year scheme and syllabus and 4<sup>th</sup> year scheme.
3. Approval of B.E. scheme and syllabus for 3<sup>rd</sup> year.
4. Approval of B.E. scheme for 4<sup>th</sup> year.

# New Horizon College of Engineering

Department of Electronics and Communication Engineering.

## Members of the Board of Studies (BOS)

Sl. No.		Nomination of the committee	Name	email id & Ph. No
1.	Faculty member at different level with different specialization	<b>Chairperson</b>	Dr. Sanjeev Sharma HOD-ECE, NHCE Chairman-BOS	<a href="mailto:hod_ece@newhorizonindia.edu">hod_ece@newhorizonindia.edu</a> 7829176479
		<b>Member</b>		
		1	Dr. B. Mohan Kumar Naik, Professor, ECE, NHCE	<a href="mailto:mohan72003@gmail.com">mohan72003@gmail.com</a> 9986985232
		2	Dr. Nisha KCR Professor, ECE, NHCE	<a href="mailto:nishashaji2007@gmail.com">nishashaji2007@gmail.com</a> 9902953427
		3	Dr. Reema Sharma Associate Professor, ECE, NHCE	<a href="mailto:sharma80reema@gmail.com">sharma80reema@gmail.com</a> 9902152111
		4	Dr. M. Dhivya, Associate Professor, ECE, NHCE	<a href="mailto:saidhivya1@gmail.com">saidhivya1@gmail.com</a> 8148361129
		5	Dr. Jayanthi M Associate Professor, ECE, NHCE	<a href="mailto:jayanthisathish1012@gmail.com">jayanthisathish1012@gmail.com</a> 9740557704
		6	Prof. Aravinda K Sr. Assistant Professor, ECE, NHCE	<a href="mailto:aravindake@gmail.com">aravindake@gmail.com</a> 9886724072
		<b>Member</b>		
2.	Subject expert from outside the college nominated by Academic Council	1	Dr. Ravi J,V Professor Dept of ECE Global Academy of Technology Bangalore	<a href="mailto:ravi.j@gat.ac.in">ravi.j@gat.ac.in</a> 9481252624
		2	Dr. S. Bhargavi Professor Department of ECE S J C Institute of Technology Chickballapur	<a href="mailto:bhargavisunil@gmail.com">bhargavisunil@gmail.com</a> 9972428675

		<b>Member</b>		
3.	<b>Experts from outside the college nominated by VTU</b>	1	Dr. Shivananda, Associate Professor, Dept. of Electronics and Communication Engg. Cambridge Institute of Technology, Bangalore-560036	<a href="mailto:cshivananda@gmail.com">cshivananda@gmail.com</a> 9481800904
		<b>Member</b>		
4.	<b>Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council</b>	1	Mr. Bipin Malhan Director Synopsis	<a href="mailto:mbipin@gmail.com">mbipin@gmail.com</a> 9108782112
		2	Mr. Prafulla Galphade Senior Program Manager	<a href="mailto:prafullag@hotmail.com">prafullag@hotmail.com</a> 9980842961
		3	Mr. Parag Bhatnagar Senior Engineering Manager	<a href="mailto:parag_bhatnagar@yahoo.com">parag_bhatnagar@yahoo.com</a> 9620398283
		4	Mr. Manjunath. R. N Senior HR Manager Department of HRD (Corporate Relations, L & D, Placements), NHCE	<a href="mailto:placements@newhorizonindia.edu">placements@newhorizonindia.edu</a> 8722677888
		<b>Member</b>		
5.	<b>Graduate meritorious alumni nominated by Principal</b>	1	Mr. Akshara Murali, Physical Design Engineer at Frenus Tech PVT LTD and Implementation Consultant at Microchip Technology Inc.	<a href="mailto:aksharamurali25@gmail.com">aksharamurali25@gmail.com</a> 9481938763
		<b>Member</b>		
6.	<b>Co-opted members</b>	1	Prof. Ramanamma Sr. Assistant Professor, ECE, NHCE	<a href="mailto:maturyrama@gmail.com">maturyrama@gmail.com</a> 9538001783
		2	Prof. Rajesh. G, Sr. Assistant Professor, ECE, NHCE	<a href="mailto:grajesh.veltech@gmail.com">grajesh.veltech@gmail.com</a> 8919002384

## MINUTES OF THE 6<sup>TH</sup> MEETING OF THE BOARD OF STUDIES FOR AY 2019-20

### 1. Welcome and Introductory remarks by the BOS Chairman

The Chairman welcomed VTU Nominee, expert members from academics and industry and other members of the Board of Studies and highlighted the following salient points for discussion in the 4<sup>th</sup> BOS Meeting.

- Discussion on Scheme and Syllabus of B.E Courses for 3<sup>rd</sup> year.
- Revision of B.E. 3<sup>rd</sup> year scheme and syllabus and 4<sup>th</sup> year scheme.
- Approval of B.E. scheme and syllabus for 3<sup>rd</sup> year.
- Approval of B.E. scheme for 4<sup>th</sup> year.

### Introductory remarks by the BOS Chairman

1. Chairman remarked on the need of accreditation process which is predominantly outcome based aiming at giving more weightage to the curriculum design, execution and outcome.
2. Chairman also mentioned about the 3 levels of expectation by the NBA namely the achievement of course outcomes, program outcomes and the program educational objectives.
3. Chairman mentioned that different guidelines such as that proposed by AICTE, Lead Professional Societies and VTU are available on the curriculum structure i.e., number of courses to be offered under for B.E. program.
4. Chairman sought opinion of industry experts on curriculum design and structure that could promote learning and impart industry-specific skills most importantly technical. He also invited responses from the external academic experts on the same.

### **Remarks by Experts and Members**

- Industry expert suggested inclusion of external training programs to cover some of practical course topics from industry point of view.
- Academic expert emphasized on including Fourier analysis in the beginning module of Analog communication course.
- Industry expert mentioned the requirement of basics of semiconductor physics as a prerequisite for CMOS VLSI design course.
- Industry expert suggested the reorganization of modules in CMOS VLSI design and Embedded system design courses and removal of few topics which has lost importance in industry nowadays.

### **2. The Board of Studies in Electronics & Communication Engineering recommended the following**

The Standing Committee recommended

- that the inclusion of following course (as per VTU guidelines) namely

**20HSS424/20HSS425 Aadalitha Kannada/ Vyavaharika Kannada**

To be approved with effect from AY 2020-21 as shown in **Appendix I**.

- B.E. scheme and syllabus for 3<sup>rd</sup> year is discussed by the board and put forward for approval for the AY 2020-21.

Improvements made in syllabus of 175 credits is included in **Appendix II**.

### **3. Vote of Thanks by the Chairman- BOS**

The meeting concluded with the vote of thanks by the chairman (HOD, ECE Department). He appreciated the comments from all the experts, faculty and student alumni for their valuable inputs and suggestions.

## **BOS MEMBERS PRESENT**

<b>S No.</b>	<b>Name</b>
1.	Dr. Sanjeev Sharma HOD-ECE, NHCE Chairman-BOS
2.	Dr. Mohan Kumar Naik Professor, ECE, NHCE
3.	Dr. Reema Sharma Associate Professor, ECE, NHCE
4.	Dr. Nisha KCR Professor, ECE, NHCE
5.	Dr. M. Dhivya, Associate Professor, ECE, NHCE
6.	Dr. Jayanthi M Associate Professor, ECE, NHCE
7.	Prof. Aravinda K Sr. Assistant Professor, ECE, NHCE
8.	Mr. Bipin Malhan Director Synopsis
9.	Mr. Manjunath. R. N Senior HR Manager Department of HRD (Corporate Relations, L & D, Placements), NHCE
10.	Dr. Shivananda, Associate Professor, Dept. of Electronics and Communication Engg. Cambridge Institute of Technology,
11.	Dr. S. Bhargavi Professor Department of ECE S J C Institute of Technology

12.	Mr. Parag Bhatnagar Senior Engineering Manager
13.	Dr. Ravi J,V Professor Dept of ECE Global Academy of Technology
14.	Prof. Rajesh. G, Sr. Assistant Professor, ECE, NHCE
15.	Prof. Ramanamma Assistant Professor, ECE, NHCE



## APPENDIX I

New Horizon College of Engineering Department of Electronics and Communication Engineering Scheme of IV Semester (Autonomous) (2020-21)											
Semester IV											
Sl. No.	Course Code	Course	BOS	Credit Distribution			Overall Credits	Contact hours	Marks		
				L	T	P			CIE	SEE	Total
1	19ECE41	Applied Mathematics-IV	BS	2	1	0	3	4	50	50	100
2	20HSS421	Economics for Engineers	HSS	2	0	0	2	2	25	25	50
3	20HSS424/ 20HSS425	Aadalitha Kannada/ Vyavaharika Kannada	HSS	1	0	0	1	2	25	25	50
4	19ECE43	System Design using HDL	ECE	3	0	0	3	3	50	50	100
5	19ECE44	Digital Signal Processing	ECE	3	0	0	3	3	50	50	100
6	19ECE45	Control Systems	ECE	2	1	0	3	4	50	50	100
7	19ECE46	Linear Integrated Circuits	ECE	3	0	0	3	3	50	50	100
8	19ECL47	Hardware Description Language Lab	ECE	0	0	1.5	1.5	3	25	25	50
9	19ECL48	Digital Signal Processing Lab	ECE	0	0	1.5	1.5	3	25	25	50
10	19ECL49	Mini project-II	ECE	0	0	2	2	4	25	25	50
<b>Total</b>							<b>23</b>	<b>31</b>	<b>375</b>	<b>375</b>	<b>750</b>

## APPENDIX II

### NEW HORIZON COLLEGE OF ENGINEERING

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION

##### IMPROVEMENTS MADE IN THE SYLLABUS OF 175 CREDITS

(WHEN COMPARED TO THAT OF 200 CREDITS)

Sl. No.	Course	Semester	Changes made in the 175 credits scheme	Change in percentage
1	Analog Communication	5	Fourier Analysis is included in Module-1.	5%
2	Microcontrollers	5	Course is renamed as "Microprocessors". The first 4 modules are completely changed. Introduction to Microcontrollers is provided in Module-5.	80%
3	CMOS VLSI Design	5	MOS transistor theory is moved to Module-1. Concept of delay is introduced in Module-3. Combinational & Sequential Designs are clubbed in Module-4. Module-5 is fully replaced with "Timing Analysis".	30%
4	Information Theory & Coding	5	Contents of Module-4 are reduced. Module-5 is replaced with "Cyclic and convolutional coding".	20%
5	Engineering Electromagnetics	5	Topic of "Potential and current" is moved to Module-2.	-
6	Digital Communication	6	No major changes.	-
7	Embedded System Design	6	Module-2 is replaced with the contents of Module-3. Module-3 is replaced with the contents of Module-4. Module-4 is replaced with the contents of Module-5. RTOS based ESD is included in Module-5.	20%
8	Microelectronic Circuits	6	Cascode amplifier topic is moved to Module-3. IC biasing is moved to Module-4. The topic "Transistor pairings" is replaced with "Active load".	5%
9	Microwaves and RADAR	6	Some topics of Module-4 are moved to Module-1. Topic of "Transmission lines" is moved to Module-2. Module-3 is replaced with the contents of Module-2. Module-4 is replaced with the contents of Module-3.	10%