

**New Horizon College of Engineering**  
**Department of Electronics and Communication Engineering**

**BOARD OF STUDIES MEETING - 5**

**DATE:** 25/05/2019

**VENUE:** Cisco Lab, Department of ECE

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

**New Horizon College of Engineering**  
**Department of Electronics and Communication Engineering**

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**AGENDA**

1. Discussion on Scheme and Syllabus of B.E Courses for 2<sup>nd</sup> year.
2. Review of B.E. scheme and syllabus for 2<sup>nd</sup> year.
3. Approval of B.E. scheme and syllabus for 2<sup>nd</sup> year.
4. Review and Approval of B.E. scheme for 3<sup>rd</sup> and 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.		Name	Official Mail id & Ph.No
1.	Faculty with different specialization	Dr. Sanjeev Sharma HOD-ECE, NHCE Chairman-BOS	hod_ece@newhorizonindia.edu 7829176479
2.		Dr. Mohan Kumar Naik Professor, ECE, NHCE	mohan72003@gmail.com 9986985232
3.		Dr. Nisha KCR Professor, ECE, NHCE	nishashaji2007@gmail.com 9902953427
4.		Mr. Aravinda K Sr. Assistant Professor, ECE, NHCE	aravindake@gmail.com 9886724072
5.		Ms. Dharmambal Sr. Assistant Professor, ECE, NHCE	dharmambal62@gmail.com 9900131185
6.		Ms. A Susmitha Sr. Assistant Professor, ECE, NHCE	<a href="mailto:susmitha.academic@gmail.com">susmitha.academic@gmail.com</a> 9972699755
7.	Subject Expert	Dr. Aravinda H S Professor & HOD-ECE, JSS Academy of Technical Education	aravindhsl@gmail.com hodec@jssateb.ac.in 9742265523
8.		Dr. Rajeshwari Hegde Associate Professor & HOD- TCE, BMS College of Engineering	rajeshwari.hedge@gmail.com rajeshwari.tce@bmsce.ac.in 9008355922
9.	VTU Nominee (Expert-VC)	Dr. P A Vijaya Professor & HOD-ECE, BNMIT	pavmkv@gmail.com 9980632822
10.	Industry Expert	Dr. C. M. Anand Head, Aerospace Electronics and Systems Division(ALD) at CSIR- NAL Deputy Director, National Aerospace Laboratories	ananda_cm@nal.res.in
11.		Mr. Satyesh B N Senior Vice President, International Business, Tejas Networks Limited	satyesh@india.tejasnetworks.com
12.		Mr. Shashikanth Patil Sr. Project Engineer, WIPRO Technologies Ltd.	shashi.vnit@gmail.com 9880962096

13.	Co-opted member	Ms. Lipsa Dash Sr. Assistant Professor, ECE, NHCE	lipsa.nhce@gmail.com 8095532669
14.		Ms. Divya Sharma Sr. Assistant Professor, ECE, NHCE	er.divyasharma@gmail.com 9535895612
15.	Student-PG Alumni	Mr. Kiran Somaji B.Tech, INTEL Technologies	kiransomayaji.n@gmail.com kiran.n@intel.com

## **MINUTES OF THE 5<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 2<sup>nd</sup> year.
- ❖ Review and Approval of B.E. scheme and syllabus for 2<sup>nd</sup> year.
- ❖ Review and Approval of B.E. scheme for 3<sup>rd</sup> and 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**

1. Industry expert emphasized on using upgraded software version and latest kits in market for lab courses.
2. Academic expert suggested inclusion of MOOC course as references for various courses.
3. One expert member advised to include more application topics in few courses.

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

The Standing Committee recommended

- that the merging of the following core courses namely

<b>ECE83</b>	<b>Project Phase – I</b>
<b>ECE84</b>	<b>Project Phase – II</b>
<b>ECE85</b>	<b>Project Phase – III</b>

into one course renamed as “**Project work**” that this takes effect for the batches of students in AY 2019-20.

The B.E. scheme of 7<sup>th</sup> and 8<sup>th</sup> semester of batch 2015-19 and batch 2016-2020 is included in **Appendix I**. 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.

**NEW HORIZON COLLEGE OF ENGINEERING  
DEPARTMENT OF ELECTRONICS AND COMMUNICATION**

**BOARD OF STUDIES MEETING (BOS) ON 25<sup>TH</sup> MAY 2019**

SL No.	Name	Name of the College / Company	Sign
1.	Dr P.A. VIJAYA	BOHMIT, Bangalore	P.A. Vijaya
2.	Dr. Rajeshwari Hegde	BMSCE, Bangalore	[Signature]
3.	Dr. Hravind. H.S.	JSSATE, Bangalore	[Signature]
4.	Shashikant Patil	WIPRO, Bengaluru	[Signature]
5.	Aiswarya N.	INTEL, Bangalore	[Signature]
6.	Anis Mirza	NHCE, Placement Dept	[Signature]
7.	Aravinda K.	NHCE	[Signature]
8.	Nipasa Dash	NHCE	[Signature]
9.	N. Dhananjay	NHCE	[Signature]
10.	Sumitha.A	NHCE	[Signature]
11.	THANUJA IK	NHCE	[Signature]
12.	Binaya Rajan	NHCE	[Signature]
13.	Karthik .CV	NHCE	[Signature]
14.	P. Rama	NHCE	P Rama
15.	Dr. B. Mohan Kumar NAK	NHCE	[Signature] 25/5/19
16.	Rajani. K.V	NHCE	[Signature]
17.	Dr. Sanjeev Sharma	NHCE	[Signature] 25/5/19
18.			
19.			

## APPENDIX I

New Horizon College of Engineering, Bangalore

**B.E. Program - Batch: 2015 -2019**

Department of Electronics and Communication Engineering

**Scheme of Seventh and Eighth Semester**

<b>Fourth Year / Seventh Semester</b>												
Sl. No.	Course code	Course title	Credit Distribution				Overall credits	Theory hours	Lab hours	Marks		
			L	P	T	S				CIE	SEE	Total
1	ECE71	Wireless and Mobile Communications	3	2	0	0	5	3	4	75	75	150
2	ECE72	Antennas and Wave Propagation	3	0	0	0	3	4	0	50	50	100
3	ECE73X	Professional Elective – III	3	0	0	1	4	3	0	50	50	100
4	ECE74X	Professional Elective – IV	3	0	0	1	4	3	0	50	50	100
5	ECE75X	Professional Elective – V	3	0	0	1	4	3	0	50	50	100
6	NHOPXX	Open Elective – II	3	0	0	1	4	3	0	50	50	100
<b>TOTAL</b>							<b>24</b>	<b>19</b>	<b>4</b>	<b>325</b>	<b>325</b>	<b>650</b>
<b>Fourth Year /Eighth Semester</b>												
Sl. No.	Course code	Course title	Credit Distribution				Overall credits	Theory hours	Lab hours	Marks		
			L	P	T	S				CIE	SEE	Total
1	ECE81	Routing and switching-03	3	0	0	1	4	3	0	50	50	100
2	ECE82	Internship	0	4	0	0	4	0	0	50	50	100
2	ECE83	Project Phase – I	0	1	0	0	1	0	4	25	25	50
3	ECE84	Project Phase – II	0	1	0	0	1	0	4	25	25	50
4	ECE85	Project Phase – III	0	10	0	0	10	0	12	100	100	200
<b>TOTAL</b>							<b>20</b>	<b>3</b>	<b>20</b>	<b>250</b>	<b>250</b>	<b>500</b>



New Horizon College of Engineering, Bangalore  
**B.E. Program - Batch: 2016 -2020**  
 Department of Electronics and Communication Engineering

**Scheme of Seventh and Eighth Semester**

<b>Fourth Year / Seventh Semester</b>												
Sl. No.	Course code	Course title	Credit Distribution				Overall credits	Theory hours	Lab hours	Marks		
			L	P	T	S				CIE	SEE	Total
1	ECE71	Wireless and Mobile Communications	3	2	0	0	5	3	4	75	75	150
2	ECE72	Antennas and Wave Propagation	3	0	0	0	3	4	0	50	50	100
3	ECE73X	Professional Elective – III	3	0	0	1	4	3	0	50	50	100
4	ECE74X	Professional Elective – IV	3	0	0	1	4	3	0	50	50	100
5	ECE75X	Professional Elective – V	3	0	0	1	4	3	0	50	50	100
6	NHOPXX	Open Elective – II	3	0	0	1	4	3	0	50	50	100
<b>TOTAL</b>							24	19	4	325	325	650
<b>Fourth Year / Eighth Semester</b>												
Sl. No.	Course code	Course title	Credit Distribution				Overall credits	Theory hours	Lab hours	Marks		
			L	P	T	S				CIE	SEE	Total
1	NHOPXX	Open Elective – III	3	0	0	1	4	3	0	50	50	100
2	ECE82	Internship	0	4	0	0	4	0	4	50	50	100
3	ECE86	Project Work	0	8	0	0	8	0	8	50	50	100
<b>TOTAL</b>							16	3	12	150	150	300

**New Horizon College of Engineering**  
**Department of Electronics and Communication Engineering**  
**Scheme of III Semester (Autonomous) (2019-20)**

**Semester III**

Sl. No.	Course Code	Course	BOS	Credit Distribution			Overall Credits	Contact hours	Marks		
				L	T	P			CIE	SEE	Total
1	19ECE31	Applied Mathematics-III	BS	2	1	0	3	4	50	50	100
2	19HSS322	Life Skills for Engineers	HSS	3	0	0	3	3	50	50	100
4	19ECE33	Digital Electronic Circuits	ECE	3	0	0	3	3	50	50	100
5	19ECE34	Analog Electronic Circuits	ECE	3	0	0	3	3	50	50	100
6	19ECE35	Network Analysis	ECE	3	0	0	3	3	50	50	100
7	19ECE36	Signals and Systems	ECE	2	1	0	3	4	50	50	100
8	19ECL37	Digital Electronic Circuits Lab	ECE	0	0	1.5	1.5	3	25	25	50
9	19ECL38	Analog Electronic Circuits Lab	ECE	0	0	1.5	1.5	3	25	25	50
10	19ECL39	Mini project-I	ECE	0	0	2	2	0	25	25	50
<b>Total</b>							<b>23</b>	<b>26</b>	<b>375</b>	<b>375</b>	<b>750</b>

**New Horizon College of Engineering**  
**Department of Electronics and Communication Engineering**  
**Scheme of IV Semester (Autonomous) (2019-20)**

**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	19HSS421	Economics for Engineers	HSS	3	0	0	3	3	50	50	100
3	19HSS423	Environmental Science and Awareness	HSS	0	0	0	0	1	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	0	2	0	25	25	50
<b>Total</b>							<b>23</b>	<b>27</b>	<b>400</b>	<b>400</b>	<b>800</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	Digital Electronic Circuits	3	Additional topics are included in Modules 1 & 2. Module-4 is renamed.	< 5%
2	Analog Electronic Circuits	3	Hybrid model is moved to Module-3. In Module-4, outdated oscillator circuits are removed.	-
3	Network Analysis	3	Circuit theorems are moved to Module-2. Attenuators are introduced in Module-4.	5%
4	Signals & Systems	3	Classification of Systems is moved to Module-2.	-
5	System Design using HDL	4	Module-1 is fully replaced with VHDL concepts. Verilog introduction is provided in Module-2. In Module-4, the design examples are reduced. Topic of “Designing with FPGA” is removed.	20%
6	Digital Signal Processing	4	Design of FIR filters is moved to Module-3. Module-5 is replaced with DSP & its applications.	15%
7	Control Systems	4	No major changes.	-
8	Linear Integrated Circuits	4	Module-1 is elaborated with “OPAMP as DC amplifiers”. Module-2 is replaced with “OPAMP as AC amplifiers”. Some topics in Frequency response are removed.	15%