

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### **BOARD OF STUDIES MEETING**

DATE

28.05.2022

VENUE :

COE-Schneider Electric, EEE Department

TIME

09.30 am - 12.00pm

Head of the Department

Mead of the Department

Medium of Electrical and Electronics Engineering

Mow Horizon College of Engineering

Fung Road, Yadubisanahalli, Bellandur Post.

Bangalore - 560103, Karnataka, India

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#### AGENDA FOR THE MEETING

- Agenda 1: Implementation of revised syllabus details based on previous BoS meeting
- **Agenda 2:** Approval of Scheme & Syllabus of II Year 2021-2025 Batch (III & IV semesters) as per NEP
- **Agenda 3**: Approval of Scheme & Syllabus of III year and IV year of 175 scheme
- Agenda 4: Discussion on rubrics of Project

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING LIST OF BOS MEMBERS FOR THE AY: 2022-2023

S. No	Category	Nomination of the committee	Name of the person	Designation & Affiliation			
	Head of the						
1	Department	Chairperson	Dr. Mahesh M	HoD/Professor, NHCE, Bangalore			
	G 117 4	1	Dr. Manjunatha	Principal, NHCE			
	Special Invitees	2	Dr. R. J Anandhi	Dean Academics, NHCE			
2	(one academician from Institution of National	3	Dr. L Umanand	Professor, Center for Electronics and Design Technology (CEDT), Indian Institute of Science, Bangalore, lums@iisc.ac.in			
	Eminence, IIT,NIT,IIM,IISC)	4	Dr. Sanjeev Sharma	Professor & Dean - Quality Assurance and Skill Development Center, NHCE			
			Meml	Members			
	Faculty member	1	Dr.Sujitha S	Associate Professor, NHCE			
	at different level	2	Dr.Gunapriya B	Associate Professor, NHCE			
3	with different	3	Dr.Vinoth Kumar K	Associate Professor, NHCE			
	specialization	4	Dr. Joshua Daniel Raj J	Senior Assistant Professor, NHCE			
		5	Mr.Inbasakaran S	Senior Assistant Professor, NHCE			
		6	Ms.Karthika M	Senior Assistant Professor, NHCE			
			Meml	pers			
4	Subject expert from outside the college nominated by Academic	1.	DrK.Shanmukha Sundar	Professor, Dayananda Sagar Academy of Technology and Management, Bengaluru -560082 <u>shanmukhasundar</u> - eee@dsatm.edu.in			

	Council						
	Experts from	L	Mem	ber			
5	outside the college nominated by VTU	1	DrLakshminarayana C	Professor, BMS college of Engineering, Bengaluru-560019			
			Memb	bers			
6	Representative from Industry / Corporate sector / allied area related to placements,	1	Dr. V Kamalakannan	Senior Design Engineer Tessolve Semiconductor Pvt. Ltd., Plot No: 31 (P2), Electronic City Phase II, Bangalore – 560 100, Karnataka India. kamalakannanvs@hotmail.com			
	nominated by Academic Council	2	Mr. Rajashekhar S	General Manager, Open Systems International (An Emerson Company), Bengaluru, Karnataka, India.rajashekhar.sammeta@osii.com			
			Memb	bers			
7	Meritorious alumni nominated	1	Mr. Bhavan N	Controls system engineer, Quest global engineering Pvt Ltd, bhavannreddy@gmail.com			
,	by Principal	2	Mr. Naimish Kumar Bareek,	Trainee Automation Engineer, Aideas Engineering Pvt Ltd, babubareek@gmail.com			
			Memb	bers			
		1	Dr.Singaravelan A	Senior Assistant Professor, NHCE			
8	Co-opted	2	Mr.Vinodkumar S	Senior Assistant Professor, NHCE			
8	members	3	Mr.Muni Prakash T	Senior Assistant Professor, NHCE			
		4	Ms. Deepa V B	Senior Assistant Professor, NHCE			

		5	Mr. Sunil S K	Senior Assistant Professor, NHCE
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	L	IST OF BOS MEMBERS	
NO	NAME	PROFON	SIGNATURE
110	IVANIE	DESIGNATION & AFFILIATION	SIGNATORE
		BoS Chairman	recepter
	Dr. Mahesh M	HoD/Professor, NHCE, Bangalore	The state of the s
	11 2 14	Special Invitees	Av
	Dr. Manjunatha	Principal, NHCE	Mayor
	Dr. R. J Anandhi	Dean Academics, NHCE	disandip
	Dr. L Umanand	Professor, Center for Electronics and Design Technology (CEDT), Indian Institute of Science, Bangalore,	-
5	Dr. Sanjeev Sharma	Professor & Dean - Quality Assurance and Skill Development Center, NHCE	laugh
		Academic Expert	
5	DrK.Shanmukha Sundar	Professor, Dayananda Sagar Academy of Technology and Management, Bengaluru -560082 shanmukhasundar-eee@dsatm.edu.in	Jun 28/5/2
		VTU nominee	
7	DrLakshminarayana C	Professor, BMS college of Engineering, Bengaluru- 560019	Leury 18/
		Industry Experts	
8	Mr. Rajashekhar S	General Manager, Open Systems International (An Emerson Company), Bengaluru, Karnataka, India.rajashekhar.sammeta@osii.com	STE
9	Dr. V Kamalakannan	Senior Design Engineer Tessolve Semiconductor Pvt. Ltd., Plot No: 31 (P2), Electronic City Phase II, Bangalore – 560 100, Karnataka, India. kamalakannanys@hotmail.com	
	Faculty member	at different level with different specialization	ation
10	Dr.Sujitha S	Associate Professor, NHCE	Builline
11	Dr.Gunapriya B	Associate Professor, NHCE	War &
12	Dr. Vinoth Kumar K	Associate Professor, NHCE	Jr. (12/1 28
13	Dr. Joshua Daniel Raj J	Senior Assistant Professor, NHCE	
14	Mr.Inbasakaran S	Senior Assistant Professor, NHCE	-
15	Ms.Karthika M	Senior Assistant Professor, NHCE	Buthit
		Meritorious alumni	
16	Mr. Bhavan N	Controls system engineer, Quest global engineering Pvt Ltd,	70 20

		bhavannreddy@gmail.com	
17	Mr. Naimish Kumar Bareek,	Trainee Automation Engineer, Aideas Engineering Pvt Ltd, babubareek@gmail.com	Baseele
	1011	Co-opted faculty members	CA.
	To at a value A	Sanior Assistant Professor, NHCL	504
18	Dr.Singaravelan A	Senior Assistant Professor, NHCE	- 14-
19	Mr.Vinodkumar S	Senior Assistant Professor, NHCE	100
20	Mr.Muni Prakash T	Senior Assistant Professor, NHCE	X and S
21	Ms. Deepa V B	Senior Assistant Professor, NHCE	Syl
22	Mr. Sunil S K	Senior Assistant Professory	

# NEW HORIZON COLLEGE OF ENGINEERING DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING WELCOME ADDRESS BY THE CHAIRMAN OF BOS AND INTRODUCTION OF MEMBERS

#### **Minutes**

Dr.Mahesh M, Chairman of BOS, welcomed the BoS members and introduced the significance of autonomy in the context of engineering education from industry perspective. The chairman briefed the gathering about the various regulations being followed in the department and emphasized the need for revision in curriculum and syllabi based on the inputs from various stake holders.

## AGENDA -1 Implementation of revised syllabus details based on previous BoS meeting

#### **Minutes**

 Based on the previous BoS meeting suggestions, the following courses were implemented and incorporated in the curriculum.

Year	Semester	Current Course Code and Course Name (Before BOS)	Proposed Course Code and Course Name (After BOS)	Percentage change of syllabus	Remarks if any
I Year	I & II	19EEE15/25- Basic Electrical Engineering	21EEE15A/25A- Basic Electrical Engineering	20%	➤ As per the industry requirement Electro chemical power sources are included.
I Year	I & II	19EEL17/27- Basic Electrical Engineering Laboratory	21EEL17A/27A- Basic Electrical Engineering Laboratory	-	Course code has been changed for 160 credit scheme
III Year	V	20EEE561- Data structure and Algorithm	21EEE561- object- oriented programming using C++ and JAVA	40 %	<ul> <li>➤ The course name is changed as object-oriented programming using C++ and JAVA.</li> <li>➤ The data structures were implemented using C language in the course 20EEE561 (Data structure and Algorithm) in the previous syllabus.</li> <li>➤ As the object-oriented programming (OOPs) concept dominates the present programming domain, the python programming is</li> </ul>

					introduced to implement the data structure in VI semester.  Hence it is proposed to introduce the object- oriented programming concepts in the V semester using C++ and JAVA.  It provides the complete insights about OOPs.
III Year	VI	20EEE641- object- oriented programming	21EEE641- Data structure and Algorithm using Python	100%	> The course name is changed as Data structure and Algorithm using Python. > The required OOPs concepts were covered in the course 21EEE561 (object-oriented programming using C++ and JAVA) in V semester. > In order to cope up with present programming trends, the Python is introduced in Data structure and Algorithm. > The python language is introduced to implement stack, queues, linked list, tree and graph data structures in the course 21EEE641 (Data structure and Algorithm using Python).
III Year	VI	20EEE652- VLSI design	20EEE652A- CMOS VLSI design	85%	<ul> <li>➤ The reframed CMOS VLSI syllabus focusses on CMOS technology, Design of combinational and sequential circuits and timing analysis of logic circuits</li> <li>➤ In order to meet the requirements of semiconductor industries the revised syllabus focusses on advances in AI, EV, and smartphone technologies which demands VLSI engineers at IC design companies.</li> <li>➤ Hence the course name and course content of VLSI design is changed as CMOS VLSI design.</li> </ul>

#### **AGENDA-2**

### Approval of Scheme & Syllabus of II Year 2021-2025 Batch (III & IV semesters) as per NEP *Minutes*

- Scheme & Syllabus of II-year -2021-25 Batch (III & IV semesters) has been reviewed.
- Suggestions from BoS members have been acknowledged and discussed in detail.
- Scheme & Syllabus of II Year 2021-2025 Batch (III & IV semesters) as per NEP has been unanimously approved by all the members.

## New Horizon College of Engineering Department of Electrical and Electronics Engineering Scheme of Third Semester B.E Program

										Marks		
S. No	Course Code	Course   Ros		istrib	ution	Overall Credits	Conta ct Hours	CIE	SEE	Total		
				L	Т	P	S		riours	CIE	JEE	Total
1	21EEE31A	Applied Mathematics-III	AS	2	1	0	0	3	4	50	50	100
2	21EEE322A	Digital system design using verilog	EEE	1	0	1	0	2	3	50	50	100
3	21HSS332A / 21HSS333A	Aadalitha Kannada / Vyavaharikha Kannada	HSS	1	0	0	0	1	1	50	50	100
4	21HSS342A	Environmental Science	HSS	1	0	0	0	1	1	50	50	100
5	21EEE35A	Analog and linear integrated circuits	EEE	2	1	0	0	3	4	50	50	100
6	21EEE36A	Electric circuit theory	EEE	2	1	0	0	3	4	50	50	100
7	21EEE37A	DC machines and transformers	EEE	2	1	0	0	3	4	50	50	100
8	21EEL35A	Analog and linear integrated circuits Laboratory	EEE	0	0	1	0	1	2	50	50	100
9	21EEL36A	Electric circuit theory Laboratory	EEE	0	0	1	0	1	2	50	50	100
10	21EEL37A	DC machines and transformers Laboratory	EEE	0	0	1	0	1	2	50	50	100
11	21EEE38A	Mini Project- I	EEE	0	0	2	0	2	4	50	50	100
12	21DMAT31 A	Basic Applied Mathematics-I	AS	0	0	0	0	0	2	50	50	100
Total	Total								31/33	550/ 600	550/ 600	1100/ 1200

## New Horizon College of Engineering Department of Electrical and Electronics Engineering Scheme of Fourth Semester B.E Program

					Credit				E Prograf	-	Marks	
S. No	Course Code	Course	BoS		Distrik	ribution		Overall Credits	Contact Hours	CIE	SEE	Total
				L	Т	Р	S					
1	21EEE41A	Applied Mathematics-IV	AS	2	1	0	0	3	4	50	50	100
2	21HSS421A	Life Skills for Engineering	HSS	1	0	1	0	2	3	50	50	100
3	21HSS431A	Entrepreneurship Development -II	HSS	1	0	0	0	1	1	50	50	100
4	21HSS441A	Constitution of India & Professional Ethics	HSS	1	0	0	0	1	1	50	50	100
5	21EEE45A	Control systems	EEE	2	1	0	0	3	4	50	50	100
6	21EEE46A	Synchronous and induction machines	EEE	2	1	0	0	3	4	50	50	100
7	21EEE47A	Microcontroller and embedded systems	EEE	2	1	0	0	3	4	50	50	100
8	21EEL45A	Control systems Laboratory	EEE	0	0	1	0	1	2	50	50	100
9	21EEL46A	Synchronous and induction machines Laboratory	EEE	0	0	1	0	1	2	50	50	100

10	21EEL47A	Microcontroller and embedded systems Laboratory	EEE	0	0	1	0	1	2	50	50	100
11	21EEE48A	Summer Internship - I	EEE	0	0	0	2	2	0	50	50	100
12	21DMAT41A*	Basic Applied Mathematics-II	HSS	0	0	0	0	0	2	50	50	100
13	21DAEC40A*	Communicative English	AS	0	0	0	0	0	2	50	50	100
		21	27/31	550/650	550/650	1100/1300						

\*Applicable to Diploma students

#### **AGENDA -3**

#### Approval of Scheme & Syllabus of III year and IV year of 175 scheme

• Scheme & Syllabus of III year (V and VI semester) and VI year (VII and VIII semester) courses were approved in the previous BoS meeting and the same will be continued in the AY: 2022-2023.

#### Scheme of Fifth Semester B.E Program

SI.	Course Code	Course				redit ributio	n	Overall Credits	Contact Hours per		Marks	
			BOS	L	Т	Р	S	G. Cu.i.s	Week	CIE	SEE	Total
1	20EEE51	Transmission and Distribution	EEE	3	0	0	0	3	3	50	50	100
2	20EEE52	Control Systems	EEE	3	0	0	0	3	3	50	50	100
3	20EEE53	Synchronous and Induction Machines	EEE	3	0	0	0	3	3	50	50	100
4	20EEE54	Signals and Systems	EEE	3	0	0	0	3	3	50	50	100
5	20EEE55	Industrial Automation	EEE	3	0	0	0	3	3	50	50	100
6	20EEE56X/ 20EEE56XA	Professional Elective I	EEE	3	0	0	0	3	3	50	50	100
7	20EEL57	Control Systems Laboratory	EEE	0	0	1.5	0	1.5	3	25	25	50
8	20EEL58	Synchronous and Induction Machines Laboratory	EEE	0	0	1.5	0	1.5	3	25	25	50
9	20EEL59	Mini Project III	EEE	0	0	2	0	2	4	25	25	50
		тот	ΓAL					23	28	375	375	750

Professional Elective I						
Course Code	Course					
20EEE561A	Object Oriented programming using C++ and JAVA					
20EEE562	Modern Communication Systems					
20EEE563	Advanced Micro Controller and Applications					
20EEE564	MEMS and Applications					

#### **Scheme of Sixth Semester B.E Program**

Г			1																	
S. No	Course Code	Course		Credit Distribution												Overall	Contact	Marks		
			BOS	L	Т	Р	S	Credits	Hours per Week	CIE	SEE	Total								
1	20EEE61	Power System Analysis	EEE	3	0	0	0	3	3	50	50	100								
2	20EEE62	Power Electronics	EEE	3	0	0	0	3	3	50	50	100								
3	20EEE63	Power System Protection	EEE	3	0	0	0	3	3	50	50	100								
4	20EEE64X/2 0EEE64XA	Professional Elective II	EEE	3	0	0	0	3	3	50	50	100								
5	20EEE65X/ 20EEE65XA	Professional Elective III	EEE	3	0	0	0	3	3	50	50	100								
6	20NHOP6X X	Open Elective-I	EEE	3	0	0	0	3	3	50	50	100								
7	20EEL66	Power System Analysis Laboratory	EEE	0	0	1.5	0	1.5	3	25	25	50								
8	20EEL67	Power Electronics Laboratory	EEE	0	0	1.5	0	1.5	3	25	25	50								
9	20EEL68	Mini Project IV	EEE	0	0	2	0	2	4	25	25	50								
	TOTAL							23	28	375	375	750								

F	Professional Elective II
Course Code	Course
20EEE641A	Data structures and algorithms using python
20EEE642	Fiber Optic and Laser Instrumentation
20EEE643	Robotics and Automation
20EEE644	Virtual Instrumentation
P	rofessional Elective III
Course Code	Course
20EEE651	Operation Research
20EEE652A	CMOS VLSI Design

20EEE653	Advanced Industrial and Building Automation
20EEE654	Advanced Control Systems

#### Scheme of seventh semester

SI. No	Course Code	Course	c	redit Di	stributio	n	Overall Credits	Contact Hours per	Overall Hours per			Marks	
			L	Т	Р	S		Week	CIE	SEE	Total		
1	20EEE71A	Special Electrical Machines	3	0	0	0	3	3	50	50	100		
2	20EEE72A	Relay and High voltage Engineering	3	0	0	0	3	3	50	50	100		
3	20EEE73A	Electrical Drives and vehicles	3	0	0	0	3	3	50	50	100		
4	20EEE74XA	Professional Elective IV	3	0	0	0	3	3	50	50	100		
5	20EEE75XA	Professional Elective V	3	0	0	0	3	3	50	50	100		
6	20NHOP7XX	Open Elective- II	3	0	0	0	3	3	50	50	100		
7	20EEL76A	Relay and High voltage Engineering laboratory	0	0	1.5	0	1.5	3	25	25	50		
8	20EEL77A	Simulation tools for Electrical Engineering laboratory	0	0	1.5	0	1.5	3	25	25	50		
9	20EEE78A	Project Phase I	0	0	2	0	2	4	50	50	100		
	ı	TOTAL	1	1	1		23	28	400	400	800		

Profession	Professional Elective IV					
Course Code	Course					
20EEE741A	Digital Signal Processing					
20EEE742A	FACTS and HVDC transmission					
20EEE743A	Testing and Commissioning					
20EEE744A	Energy Auditing and Demand side Management					
Profession	nal Elective V					
Course Code	Course					
20EEE751A	Utilization of Electrical Energy					
20EEE752A	Power System Operation and Control					
20EEE753A	Professional Ethics					
20EEE754A	Neural network and Fuzzy logic in Electrical Engineering					

#### Scheme of Eighth Semester B.E Program

SI. N	Course Code	Course			tribution		Overall Credits	Contact Hours per		Marks	
0			L	Т	Р	S	Credits	Week	CIE	SEE	Total
1	20EEE81XA	Professional Elective VI	3	0	0	0	3	3	50	50	100
2	20EEE82XA	Professional Elective VII	3	0	0	0	3	3	50	50	100
3	20EEE83A	Internship	0	0	4	0	4	8	50	50	100
4	20EEE84A	Project Phase II	0	0	10	0	10	20	50	50	100
	TOTAL							34	200	200	400

Professional Elective VI							
SI No	Course Code	Course					
1	20EEE811A	Estimation and Costing of electrical systems					
2	20EEE812A	Smart Grid Technologies					
3	20EEE813A	Power Quality					
4	20EEE814A	Integration of distributed generation					

Professional Elective VII							
SI No	Course Code	Course					
1	20EEE821A	Photo Voltaic Systems and Applications					
2	20EEE822A	Simulation of Power Electronics					
3	20EEE823A	Biomedical Instrumentation					
4	20EEE824A	Applications of IOT in Electrical Engineering					

#### **AGENDA -4**

#### Discussion on rubrics of Project

The following rubrics has been followed for the Project based learning.

Table 1: Rubrics for project Based Learning

Review	Agenda	Description	Assessment	Mapped PO	PSOs	Marks
Finat	Project	Identification of Problem Domain and detailed Analysis	Rubric	PO2	PSO1 PSO2	10
rovious scopes	scopes and Proposal	Study of the Existing systems and feasibility of PBL proposal	Based	PO4		10
Second Technical		Review based comparison of existing system.	Rubric	PO3 PO12	PSO1	15
	achievement	Identify and acquire information needed for design	Based	PO5	PSO2	15
	Methodology and	Originality of the project Idea		PO3	PSO1 - PSO2	10
	expected outcome of the proposed	Methodology and design process		PO5		10
Final review	work	Outcomes and deliverables	Rubric Based	PO12		10
review		Quality of PBL Report	based	PO11		10
	PBL Report Evaluation	Description of concepts And Knowledge of contemporary issues		PO12		10
TOTAL						100

#### **LIST OF OPEN ELECTIVES**

Open Elective II					
Course Code	BOS				
20NHOP701	Big Data Analytics using HP Vertica-1	CSE			
20NHOP702	VM Ware Virtualization Essentials-1	ISE			
20NHOP704	Big Data Analytics using HP Vertica-2	CSE			
20NHOP705	VM Ware Virtualization Essentials-2	ISE			
20NHOP707	SAP	MEE			
20NHOP708	Schneider-Industrial Automation	EEE			
20NHOP709	Cisco-Routing and Switching-1	ECE			
20NHOP710	Data Analytics	CSE			
20NHOP711	Machine learning	MEE			
20NHOP712	CISCO-Routing and switching - 2	ECE			
20NHOP713	IIOT Embedded System	MEE			
20NHOP714	Block Chain	CSE			
20NHOP715	Product Life cycle management	MEE			
20NHOP717A	Network Security and Cryptography	ECE			
20NHOP718A	Physical Design	ECE			
20NHOP719A	AI Data Analysis with Python	AI&ML			

#### RECOMMENDATIONS OF THE BOARD

The agenda was already circulated among the committee members and the following discussions were made based on the agenda.

Dr Lakshminarayana C, Professor in EEE, BMS College of Engineering, Bangalore and the VTU nominee attended the meeting along with Dr.K. Shanmukha Sundar Professor, Dayananda Sagar Academy of Technology and Management, Bengaluru, Mr. Rajashekhar S, General Manager, Open Systems International (An Emerson Company), Bengaluru, Dr. V Kamalakannan, Senior Design Engineer, Tessolve Semiconductor Pvt. Ltd., Bengaluru and meritorious alumni. The members appreciated the curriculum and syllabi.

#### **Subject 1: Electromagnetic field theory**

Dr Lakshminarayana C recommended that the course electromagnetic field theory has to be included in the NEP scheme. Since, the course is important for GATE exam preparation and for getting placed in industries and for higher education.

#### Subject 2: Suggestion to include fundamental and design thinking courses

Dr Lakshminarayana C suggested to include fundamental courses and design thinking courses for higher semesters. He also mentioned to reframe the mathematics syllabus based on the application of electrical engineering. The biology for engineers' course has to be added in the curriculum.

#### Subject 3: COs and POs framing and mapping

Dr Lakshminarayana C and Dr.K. Shanmukha Sundar given their suggestions for COs-POs mapping and COs framing procedure. They emphasized to highlight the RBT levels based COs. Dr.K. Shanmukha Sundar suggested to revisit the CO-PO mapping of all the courses and could be reviewed properly. He opined that the subject teachers have to give justification for their course CO-PO mapping and he mentioned that the RBT levels can be included in the syllabus. This observation is acknowledged and informed that it would be discussed in the appropriate forum.

#### **Subject 4: Inclusion of E-books as Reference books**

The VTU nominee suggested to include E-books, video links and you tube links related to particular course in reference section of syllabus.

#### Subject 5: Merging of DC and AC machines as a single course

Mr. Rajashekhar S opined that the DC and AC machines course can be made as a single course. It is informed to the course and module coordinators to find the possibilities of merging the courses and to incorporate in the syllabus.

#### Subject 6: Industry mentor for each course and audit certification course

Mr. Rajashekhar S suggested to include domain based courses to the students and based on their choice the specialized industry experts can serve as a mentor for each course. He also informed to collaborate with industry and to teach each course by faculty and an industry expert. It was informed to him that the EEE department is organising each semester industry experts' guest lecture and webinars for various courses. He mentioned to include audit certification courses for the missed courses for NEP scheme.

#### **Subject 7: Lab courses**

The alumni students Mr Naimish and Mr Bhavan informed to include electrical domain based laboratory courses in the curriculum and to update the new version of software tools.

#### **VOTE OF THANKS BY THE CHAIRMAN-BoS**

The Chairman thanked all the members for having participated in the meeting and contributed in framing the curriculum and syllabi for 2021-2025 batch.



