DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

1ˢᵗ BOARD OF STUDIES MEETING

Minutes of the meeting

Academic year 2021-2022

DATE	:	19.08.2021
VENUE	:	Conference Hall
MODE	:	Blended
TIME	**:**	12.00 pm – 1.30pm

CONTENTS

AGENDA FOR THE MEETING

1. Welcome address by the chairman of BOS

2. Presentation of draft of Scheme from 3rd to 8th semester

3. Proposed course details for the academic year 2021-2022

4. Presentation of Syllabus of Second year in detail

5. Recommendations/ Suggestions of BOS members.

6. Implementation of recommendation of BOS members

7. Approval of   Scheme & Syllabus of Second year AI & ML Engineering Subjects

8. Vote of Thanks by the chairman of BOS

LIST OF MEMBERS

Sl. No	Category	Nomination of the committee	Name of the person	Email ID & Mobile No
1	Head of the Department	Chairperson	**Dr. Uma Reddy N V, HoD / AI & ML**	hod_aiml@newhorizonindia.edu 9972047259
2	Faculty member at different level with different specialization	Member		
		1	**Dr. Rajalakshmi , HoD/CSE**	hod_cse@newhorizonindia.edu 9841711347
		2	**Dr Sanjeev Sharma , HoD/ECE**	hod_ece@newhorizonindia.edu 7829176479
		3	**Dr Anandhi R J , HoD/ISE**	hod_ise@newhorizonindia.edu 9845705705
		4	**Dr Asha , HoD/MCA**	hod_mca@newhorizonindia.edu 9448950679
		5	**Dr Manikandan S P , HoD / CE**	hod_ce@newhorizonindia.edu 9941352094
		6	**Dr Suresh A , Assoc Prof / AI & ML**	dr.suresha@newhorizonindia.edu 9597590540
3	Subject expert from outside the college nominated by Academic Council	Member		
		1	**Dr. Bharathi M A** Professor & HoD , Department of AI & ML , BMSIT, Bengaluru -560064	9448347885 bharathi_m@bmsit.in
4	Experts from outside the college nominated by Vice Chancellor	Member		
		1	**Dr. Indiramma** Professor, Department of CSE, BMSCE, Bengaluru - 560019	9663376002 Indira.cse@bmsce.ac.in
5	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	Member		
		1	**Mr. Prasad Chitta** Practice lead, machine intelligence, BFSI technology advisory group. Bengaluru	9886789545 prasad.chitta@tcs.com
6	Co-opted members	Member		
		1	**Mr. Santhosh** PTO, NHCE	placementofficer@newhorizonindia.edu 8050821446

LIST OF MEMBERS PRESENT IN 1ST MEETING

NEW HORIZON COLLEGE OF ENGINEERING

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

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

Attendance Sheet

DATE OF BOS MEETING: 19/08/2021   **Venue: Conference Hall**   **Time: 12.00 pm – 2.00 pm**

LIST OF MEMBERS

S. No	Category	Nomination of the committee	Name of the person	Designation & Affiliation	Signature
1	Head of the Department	Chairperson	Dr. Uma Reddy N V	Professor & HoD, Dept. of AI & ML	
2	Faculty member at different level with different specialization			**Internal Member**	
		1	Dr. Rajalakshmi	Professor & HoD, Dept. of CSE, NHCE, Bangalore	
		2	Dr Sanjeev Sharma	Professor & HoD, Dept of ECE, NHCE, Bangalore	
		3	Dr Anandhi R J	Professor & HoD, Dept of ISE, NHCE, Bangalore	
		4	Dr Asha	Professor & HoD, Dept of MCA, NHCE, Bangalore	
		5	Dr Manikandan S P	Professor & HoD, Dept of CE, NHCE, Bangalore	
		6	Dr Suresh A	Asso Professor, Dept of AI&ML, NHCE, Bangalore	
3	Subject expert from outside the college	External Member	Dr. Bharathi M A	Professor & HoD, Dept of AIML, BMSIT, Bangalore	
4	Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council	External Member	Mr. Prasad Chitta	Practice lead, machine intelligence, BFSI technology advisory group	

HOD-AI & ML   **DEAN ACADEMICS**   **PRINCIPAL**

5

Welcome address by the chairman of BOS

The 1st Board of Studies meeting for Department of AI & ML was scheduled on 19.08.2021 at conference Hall, NHCE

At the outset, Chairperson **Dr. NV Uma Reddy** Professor & Head – Department of AI & ML Engineering, welcomed the Members for attending the 1st Board of studies meeting held in conference Hall, NHCE as a blended mode.

The chairperson introduced **Dr. Manjunatha** , principal, NHCE and **Dr. Amarjeet Singh**, Professor & Dean–Academics, NHCE to the members of Board of Studies and welcomed him for the ensuing proceedings.

The chairperson further expressed special thanks to**,** an expert **Dr. Indiramma,** nominated by VTU, **Dr. Bharathi M A** expert, nominated by Academic Council for sparing the time from their busy schedule to attend the meeting.

The chairperson also expressed his gratitude to **industrial nominees, Mr. Prasad Chitta,** practice lead, machine intelligence, BFSI technology advisory group, Bengaluru.

The meeting was also attended Co-opted members **Mr. Santhosh**, PTO, NHCE, NHCE and Internal faculty member **Dr. Rajalakshmi , Dr. Sanjeev sharma, Dr. Anandhi RJ, Dr. Asha, Dr. Manikandan S P, Dr.Suresh A**.

AGENDA -2

Presentation by Chairman of BOS about Department schema & Syllabus

The Chairman of BOS Dr. NV Uma Reddy, Professor & Head, Department of AI & ML Engineering, presented draft of Scheme from 3rd to 8th semester & Syllabus of 3rd and 4th semester in the current academic year 2021-22.

AGENDA -3

Proposed course details for the academic year 2021-22

III sem (2018 Scheme – 175 Credits)

S.No	Course Code	Course	BOS	L	T	P	Overall Credits	Contact Hours	CIE	SEE	Total
1	20AIM31A	Applied Mathematics-III	BS	2	1	0	3	4	50	50	100
2	20HSS324/ 20HSS325	Aadalitha Kannada/ Vyavaharika Kannada	HSS	1	0	0	1	2	25	25	50
3	20HSS321	Economics For Engineers	HSS	2	0	0	2	2	25	25	50
4	20AIM33A	Digital Electronics for AI	AI&ML	3	0	0	3	3	50	50	100
5	20AIM34A	Data Structures using C	AI&ML	3	0	0	3	3	50	50	100
6	20AIM35A	Python Programming	AI&ML	3	0	0	3	3	50	50	100
7	20AIL36A	Digital Electronics Lab	AI&ML	0	0	2	2	4	25	25	50
8	20AIL37A	Data Structures using C Lab	AI&ML	0	0	2	2	4	25	25	50

9	20AIL38A	Python Programming Lab	AI&ML	0	0	2	2	4	25	25	50
10	20AIM39A	Mini Project	AI&ML	-	-	2	2	-	25	25	50
11	19DMAT31	*Basic Applied Mathematics I	BS	-	-	-	0	2	25	25	50
Total							23	29/ 31*	350/ 375*	350/ 375*	700/ 750*

*For Lateral entry students only

IV sem (2018 Scheme – 175 Credits)

IV SEMESTER											
S.No	Course Code	Course	BOS	Credit Distribution			Overall Credits	Contact Hours	Marks		
				L	T	P			CIE	SEE	Total
1	20AIM41A	Mathematical Statistics	BS	2	1	0	3	4	50	50	100
2	19HSS423	Environmental Science and Awareness	HSS	Mandatory Course			0	2	25	25	50
3	19HSS422	Life skills for Engineers	HSS	3	0	0	3	3	50	50	100
4	20AIM44A	Introduction to Data Science	AI&ML	3	0	0	3	3	50	50	100
5	20AIM45A	Object Oriented Programming with Java	AI&ML	3	0	0	3	3	50	50	100
6	20AIM46A	Database Management system	AI&ML	3	0	0	3	3	50	50	100
7	20AIL47A	Object Oriented Programming with Java Lab	AI&ML	0	0	2	2	4	25	25	50
8	20AIL48A	Database Management system Lab	AI&ML	0	0	2	2	4	25	25	50

9	20AIM49A	Mini Project	AI&ML	-	-	2	2	-	25	25	50
10	19DMAT41	*Basic Applied Mathematics-II	BS	-	-	-	0	2	25	25	50
Total							23	26/ 28*	350/ 375*	350/ 375*	700/ 750*

*For Lateral entry students only

AGENDA -4

Presentation of Syllabus of Second year
AI & ML Engineering Subjects for ratification

❖ **Second semester AI & ML Engineering Subjects :-**

SL NO	SUBJECT CODE	SUBJECT
A.	20AIM31A	Applied Mathematics-III
B.	20HSS324/ 20HSS325	Aadalitha Kannada/ Vyavaharika Kannada
C.	20HSS321	Economics For Engineers
D.	20AIM33A	Digital Electronics for AI
E.	20AIM34A	Data Structures using C
F.	20AIM35A	Python Programming
G.	20AIL36A	Digital Electronics Lab
H.	20AIL37A	Data Structures using C Lab
I.	20AIL38A	Python Programming Lab
J.	20AIM39A	Mini Project
K.	19DMAT31	*Basic Applied Mathematics I
L.	20AIM41A	Mathematical Statistics
M.	19HSS423	Environmental Science and Awareness
N.	19HSS422	Life skills for Engineers

O.	20AIM43A	Introduction to Data Science
P.	20AIM44A	Object Oriented Programming with Java
Q.	20AIM45A	Database Management system
R.	20AIL46A	Object Oriented Programming with Java Lab
S.	20AIL47A	Database Management system Lab
T.	20AIM48A	Mini Project
U.	19DMAT41	*Basic Applied Mathematics-II

AGENDA -5

Recommendations/ Suggestions of BOS members

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

Dr.Indiramma, Professor, BMSCE, Bengaluru and Dr. Bharathi M A , Professor & HoD , Department of AI & ML , BMSIT, Bengaluru and Mr. Prasad Chitta , Practice lead, machine intelligence, BFSI technology advisory group, Bengaluru. The members appreciated the curriculum and syllabi.

Subject 1: 20AIM44 - Object Oriented Programming with Java
Dr. Bharathi M A recommended that it is better to learn OOPS concepts in the earlier semester. In addition to that, Mr. Prasad Chitta also recommended in having 21AIM44 - Object Oriented Programming with Java and its lab in 4th semester from the 5th semester. Since it is good practice to have both DBMS and Java together in the same semester as the Expert members suggestion the changes are incorporated.

Subject 2: 20AIL47 - Database Management system Lab
Dr. Bharathi M A and Mr. Prasad Chitta suggested to include some of the experiment for designing database in ER diagram and some of the problems would be without scenario based. It is informed that as per the expert members recommendation, the suggestions are incorporated by adding ER diagram design experiment and development of database using SQL query in the first three experiments without scenario based.

Subject 3: XXAIM541 – Design and Analysis of Algorithm
Dr. Bharathi M A suggested to shift the course XXAIM541 – Design and Analysis of Algorithm of algorithm to core from the professional elective and having in earlier semester (3rd semester). It is informed that as per the expert member recommendation the course is shifted from professional elective to Core course and placed in the 5th semester but unable to fit the course in the 3rd or 4th semester by considering the lateral entry students and subject flow.

Subject 4: MOOC courses

Mr. Prasad Chitta suggested adding latest technology courses through MOOC platform in the higher semester. It is informed that in the department after having brain storming session with the course coordinator and module coordinator the latest courses will be identified as audit courses for the betterment of improving student's domain knowledge and skills.

Subject 5: Approval of Scheme and Syllabi

Mr. Prasad Chitta appreciated the flow of the data science insights from mathematical statistics – DBMS – Introduction to Data science – Machine Learning – Deep Learning and endorsed the views of BoS members. The BoS members unanimously approved the scheme and syllabi for III and IV semesters for 2020 batch.

AGENDA -6

Implementation of recommendation of BOS members

The chairperson constituted the following groups to review and implement the recommendations of the BOS members in the scheme ad syllabus of the curriculum based on recommendations.

Sl No	Subject code	Subject	Faculty
1	20AIL47A	Database Management system Lab	Dr.A.Suresh
2	XXAIM541A	Design and Analysis of Algorithm	Mr.J.Dinesh

The groups reviewed the curriculum and affected the changes regarding issues raised by external BOS members.

AGENDA -7

Approval of Scheme & Syllabus of Second year AI & ML Engineering Subjects

The Board of Studies members reviewed the modified draft of the scheme & syllabus with their recommendations/suggestions being incorporated appropriately.

Finally, the members approved the draft of the same with the modifications for final implementation.

❖ **Third semester AI & ML Engineering Subjects :-**

SL NO	SUBJECT CODE	SUBJECT	% Additions / Deletions in Modules	Proposed Experiential Learning in the Modules	Percentage change in the syllabus for AY 2021-22
1	20AIL47A	Database Management system Lab	10%	ER diagram	10%

❖ **Fifth semester AI & ML Engineering Subjects :-**

SL NO	SUBJECT CODE	SUBJECT	% Additions / Deletions in Modules	Proposed Experiential Learning in the Modules	Percentage change in the syllabus for AY 2021-22
1	XXAIM541A	Design and Analysis of Algorithm	100%	Complete Course added as a Core subject	10%

AGENDA -8

Vote of Thanks by the chairman of BOS

The Chairman thanked all the members for having participated in the meeting and contributed in framing the curriculum and syllabi for 2020 batch (3rd and 4th semester).

LIST OF MEMBERS PRESENT IN 2nd MEETING

NEW HORIZON
COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA
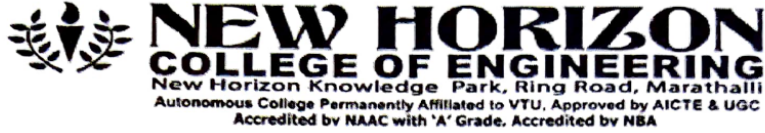
DERPARTMENT OF AI & ML
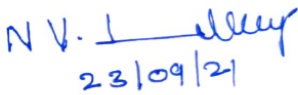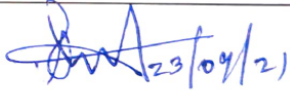
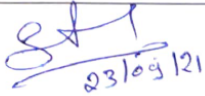**ATTENDANCE SHEET**

Academic Year 2021-2022

Date: 23/09/2021   Online Mode: Google Meet   Time: 10.00 am to 11.30 am

LIST OF MEMBERS PRESENT

Sl. No	Category	Nomination of the committee	Name of the person	Signature
1	Head of the Department	Chairperson	Dr. Uma Reddy N V, HoD / AI & ML , NHCE hod_aiml@newhorizonindia.edu 9972047259	N V. 1 23/09/21
2	Faculty member at different level with different specialization		Member	
		1	Dr. Amarjeetsingh , Prof CSE & Dean Academic , NHCE dean.academics@newhorizonindia.edu 9315432675	
		2	Dr Suresh A , Assoc Prof / AI & ML , NHCE dr.suresha@newhorizonindia.edu 9597590540	23/09/21
3	Experts from outside the college nominated by Vice Chancellor		Member	
		1	Dr. Indiramma Professor, Department of CSE, BMSCE, Bengaluru – 560019 Indira.cse@bmsce.ac.in 9663376002	
4	Co-opted members		Member	
		1	Mr. Santhosh, PTO, NHCE placementofficer@newhorizonindia.edu 8050821446	23/09/21

Recommendations/ Suggestions of BOS members:

Subject 1:   Discrete Mathematics

Dr. Indiramma recommended that it is better to have discrete mathematics concepts for the AI & ML students along with Linear Algebra. Linear algebra they already studied in their Applied mathematics – I and after having brain storming session with Mathematics department we plan to do the practical discrete mathematics concepts needed for the AI&ML students as the value added course in the 4th semester as per the recommendation.

Subject 2: Professional Ethics courses for AI

Dr.Indiramma suggested for including ethical courses related to AI. It is informed that as per the recommendation we plan to have value added program in the 6th semester for the better understanding of professional ethics related to AI though we had professional elective course like Information security.

Subject 3: MOOC courses

Dr.Indiramma suggested for adding latest technology courses like Augmented reality & virtual reality in the higher semester. It is informed that in the department after having brain storming session with the course coordinator and module coordinator the latest courses will be identified as audit courses for the betterment of improving student's domain knowledge and skills.

Implementation of recommendation of BOS members:

Sl No	Subject code	Subject	Faculty
1	-	Discrete Mathematics	Dr.Srinivasan
2	-	MooC/Value addedcourses	Mr.J.Dinesh

Approval of Scheme & Syllabus of Second year AI & ML Engineering Subjects

The Board of Studies members reviewed the modified draft of the scheme & syllabus with their recommendations/suggestions being incorporated appropriately. Finally, the members approved the draft of the same with the modifications for final implementation.

Vote of Thanks by the chairman of BOS

The Chairman thanked all the members for having participated in the meeting and contributed in framing the curriculum and syllabi for 2020 batch (3rd and 4th semester).