



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

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

2nd BOARD OF STUDIES MEETING

Minutes of the meeting

Academic year 2022-2023

DATE : 14.06.2022
VENUE : HRD Conference Hall
MODE : Blended
TIME : 10.00 pm - 12.00 pm

Dr R J Anandhi
Professor and Dean-Academics
New Horizon College of Engineering
Ring Road Bellandur Post,
Bengaluru - 560 103

HOD

Department of
Artificial Intelligence and Machine Learning
New Horizon College of Engineering
Ring Road, Bellandur Post, Bangalore - 560 103

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AGENDA FOR THE MEETING

1. Welcome address by the chairman of BOS
2. Presentation of draft of Scheme from 3rd to 8th semester (NEP 160 Credit Course), Presentation of draft of Scheme from 5th to 8th semester (175 Credit Course)
3. Proposed course details for the academic year 2022-2023 (NEP)
4. Proposed course details for the academic year 2022-2023 (175)
5. Presentation of Syllabus of Second year (NEP Course) in detail
6. Presentation of Syllabus of Third year (175 credit Course) in detail
7. Recommendations/ Suggestions of BOS members.
8. Implementation of recommendation of BOS members
9. Approval of Scheme & Syllabus of Second year/ Third year AI & ML Engineering Subjects
10. Vote of Thanks by the chairman of BOS

LIST OF MEMBERS

| S. No | Category | Nomination of the committee | Name of the person | Designation & Affiliation |
|-------|--|-----------------------------|--------------------------|--|
| 1 | Head of the Department | Chairperson | Dr. Uma Reddy N.V. | Professor & HoD (AI&ML) NHCE ,Bangalore hod_aiml@newhorizonindia.edu 9972047259 |
| 2 | Special Invitees (one academician from Institution of National Eminence, IIT,NIT,IIM,IISC) | 1 | Dr. Manjunatha | Principal, New Horizon College of Engineering, Bangalore principal@newhorizonindia.edu 9901916000 |
| | | 2 | Dr. Anandhi R J | Professor, HoD Dept. of ISE, Dean Academics, NHCE, Bangalore DeanAcademics@newhorizonindia.edu 9845705705 |
| | | 3 | Dr. Naresh Kumar Nagwani | Associate Professor, NIT Raipur, Chhattisgarh. nknagwani.cs@nitrr.ac.in 9993312001 |
| 3 | Faculty member at different level with different specialization | Members | | |
| | | 1 | Dr. Rajalakshmi | Professor & HoD, Dept. of CSE, NHCE, Bangalore. hod_cse@newhorizonindia.edu 9841711347 |
| | | 2 | Dr.Asha | Professor & HoD, Dept of MCA, NHCE, Bangalore. ashav@newhorizonindia.edu 9986010118 |

| | | | | |
|---|--|----------------|----------------------|---|
| | | 3 | Dr. Sreejit Panicker | Associate Professor, NHCE, Bangalore dr.sreejitp.nhce@newhorizonindia.edu 8319195400 |
| 4 | Subject expert from outside the college nominated by Academic Council | Members | | |
| | | 1 | Dr. Bharathi M A | Professor & HoD, Dept. of AIML , BMSIT, Bangalore bharathi_m@bmsit.in 9448347885 |
| 5 | Experts from outside the college nominated by VTU | Member | | |
| | | 1 | Dr. Indiramma | Professor, Dept. of CSE, BMSCE, Bangalore. indira.cse@bmsce.ac.in 9663376002 |
| 6 | Representative from Industry / Corporate sector / allied area related to placements, nominated by Academic Council | Members | | |
| | | 1 | Mr. Prasad Chitta | Practice Lead, Machine Intelligence, BFSI Technology Advisory Group. TCS prasad.chitta@tcs.com 9886789545 |
| | | Members | | |
| 8 | Co-opted members | 1 | Ms. Sowmya H K | Sr. Assistant Professor, NHCE ,Bangalore Sowmyahk.nhce@newhorizonindia.edu 9448060784 |
| | | 2 | Ms.Kavyashree C | Sr. Assistant Professor, NHCE ,Bangalore kavyashreec.nhce@newhorizonindia.edu 9739900738 |

| | | | | |
|--|--|---|-----------------|--|
| | | 3 | Mr. R. Bhargava | Sr. Assistant Professor, NHCE ,Bangalore bhargavar.nhce@newhorizonindia.edu 9663300824 |
|--|--|---|-----------------|--|



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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

ATTENDANCE SHEET

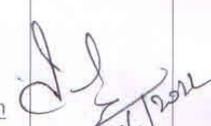
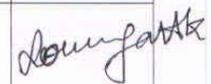
Academic Year 2021-2022

Date: 14/06/2022

Time: 10.00 am to 12.00 pm

LIST OF MEMBERS-BOARD OF STUDIES

| No | Category | Nomination of the committee | Name of the person | Designation & Affiliation | Signature |
|----|---|-----------------------------|-------------------------|---|-------------------------|
| 1 | Head of the Department | Chairperson | Dr. N.V.Uma Reddy | Professor & HoD (AI&ML) NHCE ,Bangalore hod_aiml@newhorizonindia.edu 9972047259 | N.V.Lilly 14/6/2022 |
| 2 | Special Invitees (one academician from Institution of National Eminence, IIT,NIT,IIM,IISC) | 1 | Dr. Manjunatha | Principal, NHCE, Bangalore principal@newhorizonindia.edu 9901916000 | Manjunatha 14/6/2022 |
| | | 2 | Dr. Anandhi R J | Professor, HoD Dept. of ISE, Dean Academics, NHCE, Bangalore DeanAcademics@newhorizonindia.edu u 9845705705 | Anandhi 14/6/22 |
| | | 3 | Dr.Naresh Kumar Nagwani | Associate Professor, NIT Raipur, Chhattisgarh. nknagwani.cs@nitrr.ac.in 9993312001 | Nagwani |

| | | | | | |
|---|---|---------|-------------------|--|---|
| 3 | Subject expert from outside the college nominated by Academic Council | Members | | |  14/06/2022 |
| | | 1 | Dr. Bharathi M A | Professor & HoD, Dept. of AIML , BMSIT, Bangalore bharathi_m@bmsit.in 9448347885 | |
| 4 | Experts from outside the college nominated by VTU | Member | | |  14/06/2022 |
| | | 1 | Dr. Indiramma | Professor, Dept. of CSE, BMSCE, Bangalore. indira.cse@bmsce.ac.in 9663376002 | |
| 5 | Representative from Industry / Corporate sector / allied area related to placements , nominated by Academic Council | Members | | |  14/06/2022 |
| | | 1 | Mr. Prasad Chitta | Practice Lead, Machine Intelligence, BFSI Technology Advisory Group. TCS prasad.chitta@tcs.com 9886789545 | |
| 6 | Co-opted members | Members | | |  |
| | | 1 | Ms. Sowmya H K | Sr. Assistant Professor, NHCE ,Bangalore | |

| | | | | |
|---|---|----------------|---|----------------------|
| | | | Sowmyahk.nhce@newhorizonindia.edu 9448060784 | |
| | | 2 | Ms.kavyashree C kavyashreec.nhce@newhorizonindia.edu 9739900738 | <i>Kavya</i> |
| | | 3 | Mr. R. Bhargava bhargavar.nhce@newhorizonindia.edu 9663300824 | <i>B</i> |
| | | Members | | |
| 7 | Faculty member at different level with different specialization | 1 | Dr. Rajalakshmi Professor & HoD, Dept. of CSE, NHCE, Bangalore. hod_cse@newhorizonindia.edu 9841711347 | <i>16. Jun 22</i> |
| | | 2 | Dr.Asha Professor & HoD, Dept of MCA, NHCE, Bangalore. ashav@newhorizonindia.edu 9986010118 | <i>Asha</i> |
| | | 3 | Dr.Manikandan S P Professor & HoD, Dept of CE, NHCE, Bangalore. hod_ce@newhorizonindia.edu | <i>R.P. K. S. P.</i> |
| | | 4 | Mr. Binod Kumar Singh Head IIIC & CR, NHCE placementofficer@newhorizonindia.edu 9663928931 | <i>Binod</i> |

| | | | | | |
|--|--|---|----------------------|---|---|
| | | 5 | Dr. Sreejit Panicker | Associate Professor, NHCE, Bangalore dr.sreejitp.nhce@newhorizonindia.edu 8319195400 |  |
|--|--|---|----------------------|---|---|

AGENDA -1

Welcome address by the chairman of BOS

The 2nd Board of Studies meeting for Department of AI & ML was scheduled on 14.06.2022 at HRD conference Hall, NHCE

At the outset, Chairperson **Dr. NV Uma Reddy** Professor & Head – Department of AI & ML Engineering, welcomed the Members for attending the 2nd Board of studies meeting held in HRD conference Hall, NHCE as a blended mode.

The chairperson introduced **Dr. Manjunatha** , principal, NHCE and **Dr. Anandhi R. J.**, 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. Naresh Kumar Nagwani** , expert from NIT Raipur and **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. Binod Kumar**, PTO, NHCE, and NHCE Internal faculty member **Dr. Rajalakshmi** , **Dr. Asha**, **Dr. Manikandan S P**, **Dr.Sreejit Panicker**, **Mr. Bhargava R.** , **Ms Kavyashree** , **Ms. Sowmya H.K.**

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 (NEP 160 credit course) from 3rd to 8th semester & Syllabus of 3rd and 4th semester and also presented draft of Scheme (175 credit course) from 5th to 8th semester & Syllabus of 5th and 6th semester in the current academic year 2022-23.

AGENDA - 3

Proposed course for the academic year 2022-23 (III Semester 160 Credit)

| III SEMESTER | | | | | | | | | | | | |
|--------------|-------------------------|--|-------|---------------------|---|---|---|-----------------|---------------|------------|------------|-------------|
| S.No | Course Code | Course | BOS | Credit Distribution | | | | Overall Credits | Contact Hours | Marks | | |
| | | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | 21AIM31A | Applied Mathematics-III | AS | 2 | 1 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 2 | 21AIM322A* | Introduction to AI | AI&ML | 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 | 21AIM35A | Digital Electronics for AI | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 6 | 21AIL35A | Digital Electronics for AI Lab | AI&ML | 0 | 0 | 1 | 0 | 1 | 2 | 50 | 50 | 100 |
| 7 | 21AIM36A | Data Structures using C | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 8 | 21AIL36A | Data Structures using C Lab | AI&ML | 0 | 0 | 1 | 0 | 1 | 2 | 50 | 50 | 100 |
| 9 | 21AIM37A | Object-Oriented Programming with Java | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 10 | 21AIL37A | Object-Oriented Programming with Java Lab | AI&ML | 0 | 0 | 1 | 0 | 1 | 2 | 50 | 50 | 100 |
| 11 | 21AIM38A | Mini Project-I | AI&ML | 0 | 0 | 2 | 0 | 2 | 4 | 50 | 50 | 100 |
| Total | | | | | | | | 21 | 31 | 550 | 550 | 1100 |

LATERAL ENTRY STUDENTS

| LATERAL ENTRY STUDENTS | | | | | | | | | | | | |
|------------------------|-------------|---|-----|---------------------|---|---|---|-----------------|---------------|-------|-----|-------|
| S.No | Course Code | Course | BOS | Credit Distribution | | | | Overall Credits | Contact Hours | Marks | | |
| | | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | 21DMAT31A | Basic Applied Mathematics -1 | AS | 0 | 0 | 0 | 0 | 0 | 2 | 50 | 50 | 100 |
| 2 | 21AEC11A* | Communicative English | HSS | 0 | 0 | 0 | 0 | 0 | 2 | 50 | 50 | 100 |
| 3 | 21DMAT41A | Basic Applied Mathematics - 2 | AS | 0 | 0 | 0 | 0 | 0 | 2 | 50 | 50 | 100 |
| 4 | 19HSS272 | Constitution of India & Professional Ethics | HSS | Mandatory course | | | 0 | 0 | 2 | 50 | 50 | 100 |

| IV SEMESTER | | | | | | | | | | | | |
|--------------|-------------|---|-------|---------------------|---|---|---|-----------------|---------------|------------|------------|-------------|
| S.No | Course Code | Course | BOS | Credit Distribution | | | | Overall Credits | Contact Hours | Marks | | |
| | | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | 21AIM41A | Mathematical Statistics | AS | 2 | 1 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 2 | 21HSS421A* | Life Skills for Engineers | 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 | 21AIM45A | Database Management System | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 6 | 21AIL45A | Database Management system Lab | AI&ML | 0 | 0 | 1 | 0 | 1 | 2 | 50 | 50 | 100 |
| 7 | 21AIM46A | Data Science | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 8 | 21AIL46A | Data Science Lab | AI&ML | 0 | 0 | 1 | 0 | 1 | 2 | 50 | 50 | 100 |
| 9 | 21AIM47A | Design and Analysis of Algorithms | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 10 | 21AIL47A | Design and Analysis of Algorithms lab | AI&ML | 0 | 0 | 1 | 0 | 1 | 2 | 50 | 50 | 100 |
| 11 | 21AIM48A | Summer Internship - I | AI&ML | 0 | 0 | 0 | 2 | 2 | 0 | 50 | 50 | 100 |
| Total | | | | | | | | 21 | 27 | 550 | 550 | 1100 |

AGENDA -4

Proposed course for the academic year 2022-23 (V Semester 175 Credit)

| V SEMESTER | | | | | | | | | | | | |
|--------------|-------------|----------------------------------|-------|---------------------|---|---|---|-----------------|---------------|------------|------------|------------|
| S.No | Course Code | Course | BOS | Credit Distribution | | | | Overall Credits | Contact Hours | Marks | | |
| | | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | 21AIM51A | Machine Learning | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 2 | 21AIM52A | Operating system | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 3 | 21AIM53A | Big data Technologies | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 4 | 21AIM54A | Professional Elective - I | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 5 | 21AIM55A | Professional Elective - II | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 6 | 21AIL56A | Design and Analysis of Algorithm | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 7 | 21AIL57A | Machine Learning Laboratory | AI&ML | 0 | 0 | 2 | 0 | 2 | 4 | 25 | 25 | 50 |
| 8 | 21AIL58A | Big data Technologies Laboratory | AI&ML | 0 | 0 | 2 | 0 | 2 | 4 | 25 | 25 | 50 |
| 9 | 21AIM59A | Mini Project - III | AI&ML | 0 | 0 | 2 | 0 | 2 | 2 | 25 | 25 | 50 |
| Total | | | | | | | | 24 | 34 | 375 | 375 | 750 |

| S. NO | COURSE CODE | PROFESSIONAL ELECTIVE-1 | S. NO | COURSE CODE | PROFESSIONAL ELECTIVE-2 |
|-------|-------------|-----------------------------------|-------|-------------|-----------------------------------|
| 1 | 21AIM541A | Information Storage and Retrieval | 1 | 21AIM551A | Speech Synthesis and Recognition |
| 2 | 21AIM542A | Introduction to sensor and IOT | 2 | 21AIM552A | Embedded Systems |
| 3 | 21AIM543A | Theory of Computation | 3 | 21AIM553A | Software Engineering |
| 4 | 21AIM544A | Parallel Processing | 4 | 21AIM554A | Cryptography and Network Security |

VI sem (2018 Scheme - 175 Credits)

| VI SEMESTER | | | | | | | | | | | | |
|--------------|-------------|-------------------------------|-------|---------------------|---|---|---|-----------------|---------------|------------|------------|------------|
| S.No | Course Code | Course | BOS | Credit Distribution | | | | Overall Credits | Contact Hours | Marks | | |
| | | | | L | T | P | S | | | CIE | SEE | Total |
| 1 | 21AIM61A | Deep Learning Techniques | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 2 | 21AIM62A | Data Visualization | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 3 | 21AIM63A | Artificial Intelligence | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 4 | 21NHOPXX | Open Elective - I | AI&ML | 2 | 0 | 1 | 0 | 3 | 4 | 50 | 50 | 100 |
| 5 | 21AIM64X | Professional Elective - III | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 6 | 21AIM65X | Professional Elective - IV | AI&ML | 3 | 0 | 0 | 0 | 3 | 4 | 50 | 50 | 100 |
| 7 | 21AIL66A | Deep Learning Laboratory | AI&ML | 0 | 0 | 2 | 0 | 2 | 4 | 25 | 25 | 50 |
| 8 | 21AIL67A | Data Visualization Laboratory | AI&ML | 0 | 0 | 2 | 0 | 2 | 4 | 25 | 25 | 50 |
| 9 | 21AIM68A | Mini Project - IV | AI&ML | 0 | 0 | 2 | 0 | 2 | 2 | 25 | 25 | 50 |
| Total | | | | | | | | 24 | 34 | 375 | 375 | 750 |

| Professional Elective - III | | Open Elective - I | |
|------------------------------------|--|--------------------------|---------------------------------------|
| Course Code | Course | Course Code | Course |
| 21AIM641A | Biometrics | NHOP01 | Big Data Analytics using HP Vertica-1 |
| 21AIM642A | Soft Computing | NHOP02 | VM Ware Virtualization Essentials-1 |
| 21AIM643A | Compiler Design | NHOP04 | Big Data Analytics using HP Vertica-2 |
| 21AIM644A | Computer Networks | NHOP05 | VM Ware Virtualization Essentials-2 |
| Professional Elective - IV | | NHOP07 | SAP |
| 21AIM651A | Augmented & Virtual Reality | NHOP08 | Schneider-Industrial Automation |
| 21AIM652A | Pattern Recognition & Image Processing | NHOP09 | Cisco-Routing and Switching-1 |
| 21AIM653A | Advanced Java | NHOP10 | Data Analytics |
| 21AIM654A | Block chain Technologies | NHOP12 | CISCO-Routing and switching-2 |
| | | NHOP13 | IIOT Embedded Systems |
| | | NHOP14 | Block chain |
| | | NHOP15 | Product Life Cycle Management |

AGENDA -5**Presentation of Syllabus of Second year
AI & ML Engineering Subjects for ratification (NEP)**

| SL NO | SUBJECT CODE | SUBJECT |
|--------------|-------------------------|---|
| A. | 21AIM31A | Applied Mathematics-III |
| B. | 21AIM322A* | Introduction to AI |
| C. | 21HSS332A/ 21HSS333A | Aadalitha Kannada / Vyavaharikha Kannada |
| D. | 21HSS342A | Environmental Science |
| E. | 21AIM35A | Digital Electronics for AI |
| F. | 21AIL35A | Digital Electronics for AI Lab |
| G. | 21AIM36A | Data Structures using C |
| H. | 21AIL36A | Data Structures using C Lab |
| I. | 21AIM37A | Object-Oriented Programming with Java |
| J. | 21AIL37A | Object-Oriented Programming with Java Lab |
| L. | 21AIM38A | Mini Project-I |
| M. | 21AIM41A | Mathematical Statistics |
| N. | 21HSS421A* | Life Skills for Engineers |
| O. | 21HSS431A | Entrepreneurship Development -II |
| P. | 21HSS441A | Constitution of India & Professional Ethics |
| Q. | 21AIM45A | Database Management System |
| R. | 21AIL45A | Database Management system Lab |
| S. | 21AIM46A | Data Science |
| T. | 21AIL46A | Data Science Lab |
| U. | 21AIM47A | Design and Analysis of Algorithms |
| V. | 21AIL47A | Design and Analysis of Algorithms lab |
| W. | 21AIM48A | Summer Internship - I |

AGENDA -6

Presentation of Syllabus of Second year

AI & ML Engineering Subjects for ratification (175 credits)

| SL NO | SUBJECT CODE | SUBJECT |
|--------------|---------------------|----------------------------------|
| A. | 21AIM51A | Machine Learning |
| B. | 21AIM52A | Operating system |
| C. | 21AIM53A | Big data Technologies |
| D. | 21AIM54A | Professional Elective - I |
| E. | 21AIM55A | Professional Elective - II |
| F. | 21AIL56A | Design and Analysis of Algorithm |
| G. | 21AIL57A | Machine Learning Laboratory |
| H. | 21AIL58A | Big data Technologies Laboratory |
| I. | 21AIM59A | Mini Project - III |
| J. | 21AIM61A | Deep Learning Techniques |
| L. | 21AIM62A | Data Visualization |
| M. | 21AIM63A | Artificial Intelligence |
| N. | 21NHOPXX | Open Elective - I |
| O. | 21AIM64X | Professional Elective - III |
| P. | 21AIM65X | Professional Elective - IV |
| Q. | 21AIL66A | Deep Learning Laboratory |
| R. | 21AIL67A | Data Visualization Laboratory |
| S. | 21AIM68A | Mini Project - IV |

AGENDA -7

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, Dr. Naresh Kumar Nagwani, NIT Raipur, 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: 21AIM322A* - Introduction to AI

Dr. Anandhi R.J. Dean Academics suggested that syllabus to be reframed so that we can justify the credits , as syllabus was elaborate it was difficult for completing it by time. Mr. Prasad Chitta also recommended in the same and Dr. Bharathi M A was also of the same opinion. Hence without compromising the content we have incorporated the expert members suggestions.

Subject 2: 21AIM35A/21AIL35A - Digital Electronics for AI (Theory/ Lab)

Dr. Naresh Kumar Nagwani stressed for incorporating the concept of GPU so that we can give some basic inputs that would be in accordance with the subject title. Dr. Bharathi M A suggested to incorporate CUDA programming and some topics of computer architecture in the module that would benefit students. The changes are done in the syllabus for both theory and practical's.

Subject 3: 21AIL45A - Database Management system Lab

Mr. Prasad Chitta suggested to include one experiment for NoSQL as they are studying in theory using MongoDB that would help them to understand in better way. The suggestion was good and we have done the changes.

Subject 4: 21AIL37A - Object-Oriented Programming with Java

Dr. Anandhi R. J. suggested reducing the experiments from 15 to 10 as per the credits, without affecting the delivery of concepts. As per the suggestion the syllabus is reframed.

Subject 4: 21AIL46A - Data Science Lab

Dr. Indiramma suggested to have case based practical's in data science that can correlate with the theory part and also to introduce the time series experiments that would help understand the theory part in a much easy way. The suggestion was incorporated in the syllabus.

Subject 5: 21AIM61A - Deep Learning Techniques

Dr. Indiramma expressed her view to reframe the module1 as we need to address some basic concepts, and tensorflow to be taken care in lab. Mr. Prasad Chitta also suggested the same hence we made the necessary changes and updated the syllabus.

All the expert members appreciated the formation of scheme and syllabus as per the relevance of the department. The BoS members unanimously approved the scheme and syllabi for III and IV semesters (NEP) and V and VI semesters (175 credit) for academic year 2022-23.

AGENDA -8

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 | 21AIL45A | Database Management system Lab | Mr. Bhargava R. |
| 2 | 21AIM322A* | Introduction to AI | Dr. Sreejit Panicker |
| 3. | 21AIM35A/21AIL35A | Digital Electronics for AI | Ms. Kavya Shree S. |
| 4. | 21AIL37A | Object Oriented Programming with JAVA | Ms. Sowmya H. K. |
| 5 | 21AIL46A | Data Science Lab | Ms. Shruti S. |

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

AGENDA -9

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.

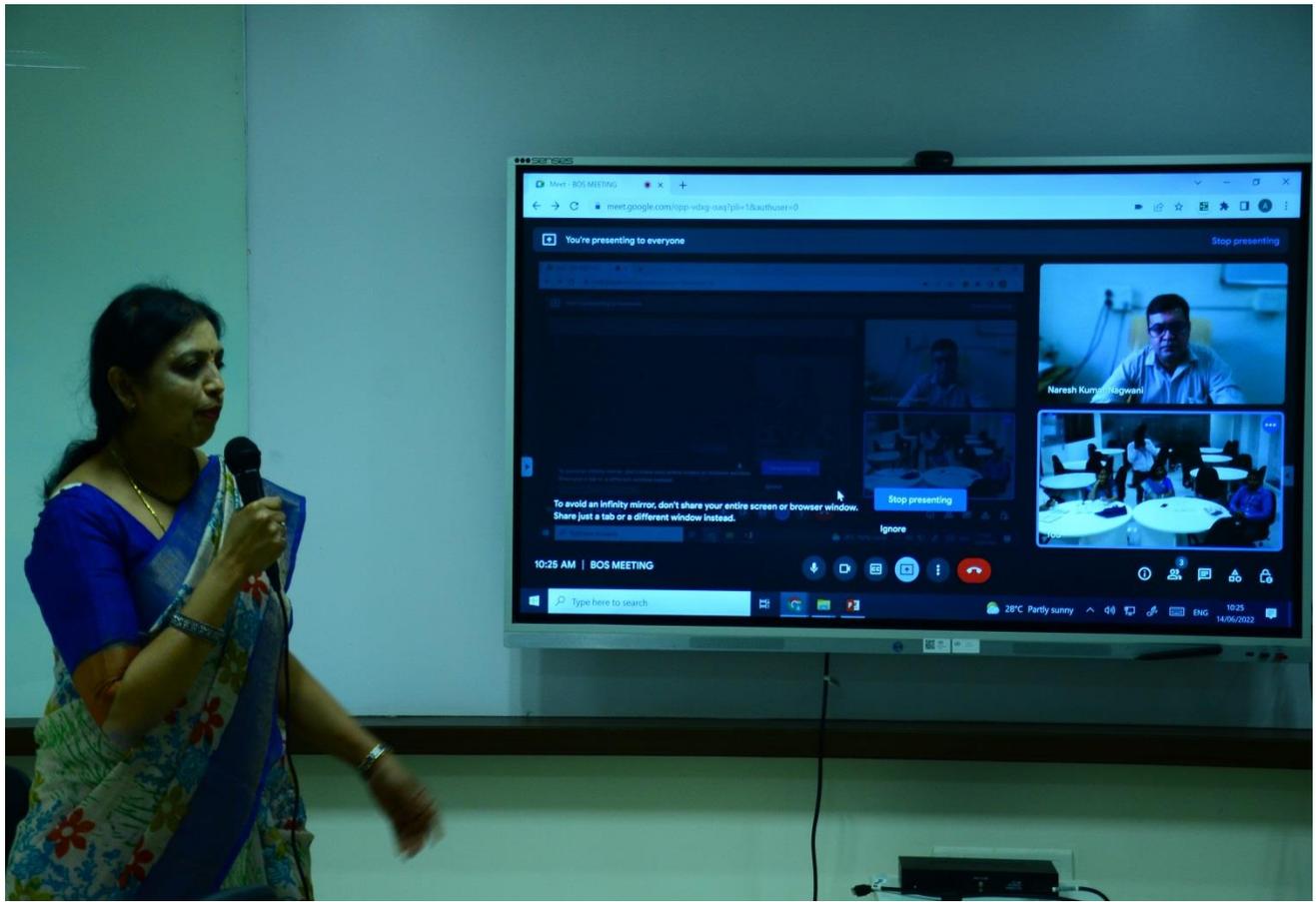
❖ **Third and Fourth semester AI & ML Engineering Subjects (NEP) :-**

| Year | Semester | Current Subject Code (Before BOS) | Proposed Subject Code (After BOS) | % change of syllabus | Remarks if any |
|----------------|------------|-----------------------------------|-----------------------------------|----------------------|---|
| II Year | III | 21AIM322A* | 21AIM322A* | 10% | Syllabus content was restructured as per the credit criteria. |
| | III | 21AIM35A | 21AIM35A | 5% | New topic was introduced as per the suggestion. |
| | III | 21AIL35A | 21AIL35A | 5% | Lab program introduced to correlate with theory. |
| | III | 21AIL37A | 21AIL37A | 10% | As per the credit number of programs reduced, without affecting the content delivery. |
| | III | 21AIL45A | 21AIL45A | 5% | Lab program added to address the NoSQL concepts. |
| | III | 21AIL46A | 21AIL46A | 5% | New program added as case study base and also to address the time series experiments. |

❖ **Fifth and Sixth semester AI & ML Engineering Subjects (175 Credits) :-**

| Year | Semester | Current Subject Code (Before BOS) | Proposed Subject Code (After BOS) | % change of syllabus | Remarks if any |
|----------|----------|--------------------------------------|--------------------------------------|-------------------------|--|
| III Year | VI | 21AIM61A | 21AIM61A | 10% | Syllabus content was restructured as per the suggestions given by BOS members. |





AGENDA -10

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 Academic Year 2022-23 (3rd and 4th semester NEP Course) and (5th and 6th semester 175 Credits).