



# 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 and Machine Learning

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Date: 13.07.2024

### Minutes of Meeting for the 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. Latha, Professor & Head, CSE, RV Institute of Technology and Management, Bengaluru, Dr. Shyam Lal, Professor, Dept. of ECE, NITK, Surathkal and Mr. Chandrashekhara R S, Associate Vice President, Head of Digitalization, SIEMENS, Bengaluru, Mr. Rohan Siddeshwara, Associate Data Scientist, Akaike Technologies, Ms. Bhoomika, Associate Data Scientist, Akaike Technologies . The members appreciated the curriculum and syllabus.

Dr. N.V. Uma Reddy, HOD-AIML welcomed all the BOS members and presented the syllabus.

#### 160 Credit 2021 Scheme

- 21AIM71A - Generative AI.
- Mr. Chandrashekhara suggested to more industrial applicability of generative AI.
- Dr. Shyam Lal suggested to include use cases in module itself.
- Ms. Bhoomika insisted to include topics on speech and computer vision model.
- 21AIM72- Natural Language Processing. Mr. Chandrashekhara suggested to include Emotional Intelligence and topics like NLP in healthcare, speech recognition related with healthcare-oriented applications.
- 21AIM815- Advanced Machine Learning, Mr. Rohan suggested to include ML pipeline topic.

#### 160 Credit 2022 Scheme

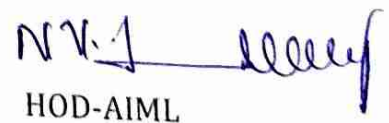
- Dr. Shyam Lal proposed that the Machine Learning course be introduced in the 4th semester instead of later in the program and Deep learning to V<sup>th</sup> semester, followed by Natural Language Processing. He emphasized that early exposure to Machine Learning concepts, will help to learn advanced topics like DL and NLP.
- Research Methodology and IPR may be given one credit.
- Mini Project: Dr. Shyam Lal suggested increasing its credit to a minimum of 2 credits to reflect its importance and the effort required, thereby giving students more substantial project experience.
- 22AIL61-Deep Learning Lab programs: In part A, include the topics 1D CNN,2D CNN, speech application with deep learning. He suggested to replace the programs of Basic gates, perceptron and KNN.

- Combine the subjects Advanced Machine Learning and Advanced Deep learning.
- A certification course on tensor flow may be included as a prerequisite for Deep learning or add in assessment patterns.
- Ethical Cybersecurity: Mr. Chandrashekara stressed the critical importance of integrating Cybersecurity with AI in the curriculum. He highlighted the increasing relevance of AI-driven security measures in combating sophisticated cyber threats, advocating for a dedicated course or module on this topic.
- Projects: Mr. Chandrasekhekar recommended increasing the number of capstone projects to provide students with more opportunities for practical, hands-on experience. Capstone projects allow students to apply theoretical knowledge to real-world problems, enhancing their problem-solving and project management skills

The other suggestions given were:

- Dr. Syam Lal suggested that instead of providing ML projects (mini project), Lab component can be strengthened. Also he expressed concerns about the Bio-Inspired Design course being mandatory. He recommended offering it as an elective to allow students to choose it based on their interests, ensuring the core curriculum remains focused on more discipline specific and applicable subjects.
- Dr. Latha raised concern about Self-study components (No self-study components). She proposed that certain courses should include self-study components valued at 1 credit. This would encourage students to engage in innovative and independent tasks, fostering a more self-directed learning approach.
- Mr. Chandrasekhara suggested that instead of packing the syllabus with more advanced concepts, emphasis must be given to foundation concepts and subjects. He expressed that add some innovation components in any one module in subjects.
- Sign more MOUs with different Industries and National Institutions, which will help the students to go for internship and training.
- Mr. Siddeshwara suggested the inclusion of a course focused on Data Pipeline and MLOps (Machine Learning Operations). He emphasized the value of internship-based learning experiences, advocating for more integration of internships within the curriculum. Such experiences provide students with practical exposure and a clearer career path, enhancing their employability and readiness for the job market.
- Ms. Bhoomika recommended incorporating more lab-based and hands-on courses in the curriculum. She highlighted the importance of practical skills and hands-on experience in improving employability. Such courses help students gain confidence in applying theoretical knowledge to practical scenarios, which is highly valued by employers.

The meeting ended with thanks.

  
HOD-AIML