OFFICE OF THE
ACADEMIC REGISTRAR
क'क्राझार मुलुगसोलोंसालि
KOKRAJHAR UNIVERSITY
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No. KU/04/Aca/2026/0007 Dated: Kokrajhar, the 19th of August, 2026.

NOTICE

Regarding revised / newly developed syllabi for H.S. 2nd Year for the academic session 2026-27

In pursuance of the notification received from the Assam State School Education Board, Div-II, Bamunimaidam, Guwahati, vide letter no. ASSEB(DIV-II)/ACA/CIR/144/99/24/0562 dated: 07/04/2026, it is hereby notified for information to all concerned students of **H.S. 2nd Year** under Kokrajhar University that the ASSEB has revised/newly developed the syllabi for the following subjects for the academic session 2026-27.

Subjects:

1. Mathematics (Inclusion of project work)
2. Sanskrit (Revised)
3. Bihu (Revised)
4. Artificial Intelligence (New syllabus and new textbook)
5. Financial Literacy (New syllabus and new textbook)
6. Sign Language (New syllabus and new textbook)
7. General Studies (New syllabus and new textbook)

The revised/newly developed syllabi of the above mentioned subjects has been attached herewith and concerned students of H.S. 2nd Year are advised to go through the syllabi for their respective subjects.

Sd/-
Academic Registrar (i/c)
Kokrajhar University
Kokrajhar

Memo No. KU/04/Aca/2026/0007 - (A) Dated: Kokrajhar, the 19th of August, 2026.

Copy for information to:

1. The P.S to the Hon'ble Vice-Chancellor, Kokrajhar University for kind information.
2. The P.S. to the Registrar (i/c), Kokrajhar University for kind information.
3. The Controller of Examinations (i/c), Kokrajhar University.
4. The Dean, Students Welfare (i/c), Kokrajhar University.
5. All HoDs, Kokrajhar University.
6. Coordinator, H.S. Course.
7. Office guard file.

Academic Registrar (i/c)
Kokrajhar University
Kokrajhar

Academic Registrar (i/c)
Kokrajhar University

OFFICE OF THE
ASSAM STATE SCHOOL EDUCATION BOARD, DIVISION-II
BAMUNIMAIDAM, GUWAHATI-21

NOTIFICATION

Date: 07/04/2026

No : ASSEB(DIV-II)/ACA/CIR/144/99/24/ 0562 : It is notified to all concerned Principals/ Registrars of the Institutions having Class XI & Class XII under Assam State School Education Board, Division-II that the syllabi of the following subjects has been revised/newly developed for Class XII (H.S. 2nd year) w.e.f 2026-27 Academic session.

1. Mathematics (Inclusion of project work)
2. Sanskrit (Revised)
3. Bihu (Revised)
4. Artificial Intelligence (New syllabus and new textbook)
5. Financial Literacy (New syllabus and new textbook)
6. Sign Language (New syllabus and new textbook)
7. General Studies (New syllabus and new textbook)

The revised/newly developed syllabi of the above mentioned subjects has been attached herewith. Also the syllabi are available at official web site www.ahsec.assam.gov.in

This will be implemented from the Academic Session, 2026-27 for class XII.

Secretary
Assam State School Education Board, Division-II
Bamunimaidam, Guwahati-21

Memo No: ASSEB(DIV-II)/ACA/CIR/144/99/24/ 0562 (A) Date: 07/04/2026

Copy to:

1. All Concerned Principals/Registrars under ASSEB, Div-II, for information and necessary action.
2. The Controller of Examinations, ASSEB, Div-II, for information and necessary action.
3. The Dy. Secy. (IT), ASSEB, Div-II, for information and also for uploading this notification with the syllabi into the official website and also to send the notification in e-mail to all concerned Principals/Registrars.
4. Office file.

Secretary
Assam State School Education Board, Division-II
Bamunimaidam, Guwahati-21

ARTIFICIAL INTELLIGENCE II

CLASS: XII

OBJECTIVES OF THE COURSE

The course builds on the foundational knowledge from Class XI, delving deeper into advanced Artificial Intelligence (AI) concepts and techniques. The primary objective is to provide students with an in-depth understanding of artificial neural networks and deep learning architectures, such as convolutional and recurrent neural networks. Students will explore generative AI models, including GANs and VAEs, and their applications in creating new data. The course also introduces multimodal AI, which combines different data types, such as text, images, and audio, to solve complex problems. A significant focus is placed on the explainability of AI models, teaching students techniques to make AI systems more interpretable and transparent. The capstone project is a critical component of this course, allowing students to apply their knowledge to a comprehensive project that involves problem definition, data collection, model building, and presentation of findings. By the end of the course, students will have a robust understanding of advanced AI techniques and be prepared for further studies or careers in artificial intelligence.

LEARNING OUTCOMES

By the end of this course, students will have advanced their understanding of AI techniques and technologies. They will be capable of designing and implementing complex AI models, including neural networks and deep learning systems. Students will also be able to apply AI to practical projects, understand the importance of explainability, and consider ethical issues in AI development.

The following are the main outcomes:

1. Students can design and implement advanced AI models, including neural networks and deep learning systems.
2. Students will complete hands-on projects, demonstrating their ability to solve real-world problems using AI.
3. Students will understand and implement generative and multimodal AI technologies.
4. Students will be able to discuss the importance of explainability in AI models and consider sustainable AI development.

UNITS

Unit	Learning Outcomes	Theory	Practical
1. Artificial Neural Networks	• Understand the structure and function of artificial neural networks • Learn how to design and implement basic neural networks • Explore the applications of neural networks in various domains	• What is an Artificial Neural Network? • Understanding perceptron, multilayer perceptron, backpropagation, and activation functions	Introduction to ANN framework in scikit-learn. Implement a neural network to predict housing prices.
2. Deep Neural Networks	• Comprehend the concepts of deep learning and deep neural networks • Implement deep learning models using frameworks like PyTorch • Understand the challenges and techniques in training deep neural networks. • Introduction to sequence modeling: RNN and Attention Mechanism	• What are Deep Neural Networks? • Convolutional neural networks: convolution, pooling • Sequence modeling: recurrent neural networks. • Transformer architecture	Introduction to Pytroch framework. Train a convolutional neural network (CNN) to classify handwritten digits using MNIST data.
3. Generative AI	• Learn the principles of generative models • Explore the applications of generative AI in creating new data	• Introduction to Generative AI • Generative AI models: Autoencoders, generative adversarial networks, large language models • Applications of Generative AI	Use a pre-trained GAN model to generate new images.

4. Multimodal AI	• Understand the concept of multimodal AI, which integrates multiple data types • Explore techniques for combining text, image, and audio data in AI models • Implement basic multimodal AI applications	• Introduction to Multimodal AI • Combining text, image, and audio for multimodal AI applications.	Build a basic multimodal model for sentiment analysis using text and image input.
5. Explainability in AI	• Learn the importance of explainability in AI models • Explore techniques for making AI models interpretable • Understand the trade-offs between model complexity and explainability	• What is explainable AI (XAI)? • Importance of XAI • Trade-offs between accuracy and interpretability of models • SHAP and LIME.	Use SHAP or LIME to explain predictions of a machine learning model.
6. Sustainable AI and SDGs	• Understand the principles of sustainable AI and its alignment with the United Nations Sustainable Development Goals (SDGs). • Analyze how AI can contribute to achieving specific SDGs, such as climate action, quality education, and reduced inequalities. • Evaluate the ethical, social, and environmental challenges of deploying AI sustainably and propose strategies to address them.	• Introduction to sustainable AI • Understand the United Nations Sustainable Development Goals (SDGs) • Real-world examples of AI addressing SDGs	Give a presentation on an AI model aligned with SDGs.
7. Case Study	• Analyze real-world case studies to understand the applications of Deep Neural Networks.	• Application of Deep Neural Network in computer vision, natural	

	• Learn from successes and failures in AI projects.	language processing, and time series • Future Trends in AI Applications	
8. Capstone Project	• Apply the knowledge and skills acquired throughout the course to a comprehensive project • Develop a complete AI solution to a real-world problem • Present and defend the project findings and solutions	Best practices in project execution, from data collection to presentation.	End-to-end implementation of an AI project and present findings with visualizations.