

INTERNSHIP PROGRAMME FOR 2024-2025 SESSION



NODAL OFFICER



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Department: Interdisciplinary / Open to All UG Disciplines

Course Title: Internship Programme in Artificial Intelligence

Course Code: 1

Credits: 2

Duration: 120 Hours

Collaborating Partners: Lalani Computer Centre

Sitalkuchi College, Cooch Behar

PATRON : Dr. Sangeeta Roychowdhury, Teacher-in-Charge, Sitalkuchi College

Nodal Officer : Dr Harakrishna Sarkar

Supervisor : Dr. Binay Krishna Pal

Introduction and Background

1. Artificial Intelligence (AI) is a transformative field that enables machines to simulate human intelligence, solve complex problems, and automate decision-making processes.
2. The rapid advancement of AI technologies is reshaping industries such as healthcare, finance, education, and transportation, making AI literacy essential for future professionals.
3. For undergraduate students at Sitalkuchi College, an early exposure to AI through a structured internship program will bridge the gap between theoretical concepts and practical applications, fostering both academic and professional growth.

Objectives

1. To introduce students to the foundational principles and real-world applications of Artificial Intelligence.
2. To develop core programming skills, particularly in Python, for building and experimenting with AI models.
3. To provide hands-on experience with essential AI tools and frameworks, including TensorFlow, Keras, and Scikit-Learn.
4. To encourage analytical thinking and problem-solving through project-based learning and practical assignments.
5. To prepare students for advanced studies and future careers in AI-driven domains.

Basic Course Structure and Syllabus

1. **Duration:** Typically 1–2 months, combining online and offline sessions.

Module 1: Introduction to AI Tools & Platforms (10 Hours)

Explore ChatGPT, Copilot, Gemini, Claude - deep dive & comparisons (2 hr)
Setup and manage AI accounts (OpenAI, Google, MS, Anthropic) (2 hr)
Use AI tools for Q&A, translation, search, summaries (2 hr)
Compare web-based vs desktop/mobile AI tools (2 hr)
Explore AI ethics, data privacy, limitations (2 hr)

Module 2: Content Creation Tools (16 Hours)

Write blog posts, articles, emails using ChatGPT (3 hr)

Generate marketing content via Jasper, Copy.ai, Writesonic (3 hr) Use Grammarly, Quillbot, Hemingway for writing quality (2 hr) Create slogans, captions, hashtags using AI (2 hr)

Create outlines, storyboards, and e-books using AI (3 hr)
Personal branding content creation exercises (3 hr)

Module 3: Image Generation & Editing (16 Hours)

Use DALL·E, MidJourney, Leonardo AI - Prompt mastery (4 hr)
Design graphics and posters using Canva AI & Adobe Firefly (3 hr)
Background removal, restoration, colorizing images (3 hr)
Create logos, infographics, thumbnails (2 hr)

AI Art transformation & prompt tuning challenge (2 hr) Meme and viral image creation for social media (2 hr)

Module 4: Video & Voice Tools (16 Hours)

Create videos using Pictory, Lumen5, InVideo (3 hr) Use Synthesia / HeyGen for AI avatars (3 hr)
Generate voiceovers using ElevenLabs, Murf.ai, Descript (3 hr) Add subtitles, dubbing using Kapwing / VEED.io (3 hr) Scriptwriting for video using ChatGPT + AI visuals (2 hr)
Practice reel/short video generation using AI (2 hr)

Module 5: Productivity & Automation (12 Hours)

Use AI tools for meeting notes: Fireflies, Otter.ai (2 hr)
AI-powered email and calendar automation (2 hr)
Automate tasks using Zapier + ChatGPT / Make.com (2 hr) Research and planning using Notion AI, Bard, Perplexity (3 hr) Mind mapping and idea generation with AI (1 hr)
Collaborative AI document/project tools (2 hr)

Module 6: Business & Marketing (12 Hours)

Build campaigns using Copy.ai, Writesonic (3 hr)
Customer service chat simulations (2 hr)
Business idea generation and validation using AI (2 hr) AI-powered competitor and market research (2 hr) Social media calendar and ad copy generation (2 hr) AI tools for SEO and keyword optimization (1 hr)

Module 7: AI for Education & Learning (10 Hours)

Explore AI tutors: Khanmigo, Socratic, ChatGPT Edu (2 hr)

Create lesson plans, worksheets, quizzes with AI (2 hr)
Translate and adapt lessons for diverse learners (2 hr)
Interactive educational content: flashcards, games (2 hr)
Create full online course content using AI (2 hr)

Module 8: Coding & Data Tools (16 Hours)

Code generation, explanation with ChatGPT & Copilot (3 hr)
Automate scripts and tasks in Python using AI (3 hr)
Generate datasets, clean data, create charts (3 hr)
Use AI tools like Replit, Codeium, and Tabnine (2 hr)
Debugging and commenting code using AI (2 hr)
Build simple AI apps or bots with code support (3 hr)

Module 9: AI Integration Projects (12 Hours)

Final mini-project using multiple AI tools (6 hr)
Create chatbot, AI-generated media kit, or automation workflow Peer reviews, collaborative improvement (2 hr)
Final presentation, evaluation, and viva (2 hr) Certification & feedback session (2 hr)

Key Learning Outcomes

1. Understand and explain the fundamental concepts, techniques, and ethical considerations in Artificial Intelligence.
2. Demonstrate proficiency in Python and use of AI libraries for data analysis and model building.
3. Apply machine learning and deep learning algorithms to solve practical problems.
4. Develop, evaluate, and deploy basic AI models for tasks in computer vision and natural language processing.
5. Collaborate effectively in teams, communicate technical findings, and document project work.
6. Gain confidence to pursue advanced AI coursework or internships in industry and research settings.

Department: Interdisciplinary / Open to All UG Disciplines

Course Title: Internship Programme in Hardware Networking

Course Code: 2

Credits: 2

Duration: 120 Hours

Collaborating Partners: Lalani Computer Centre

Sitalkuchi College, Cooch Behar

PATRON : Dr. Sangeeta Roychowdhury, Teacher-in-Charge, Sitalkuchi College

Nodal Officer : Dr. Harekrishna Sarkar

Supervisor : Priyanko Sen

Introduction and Background

1. The internship program on **Hardware Networking** for 2nd semester undergraduate students at Sitalkuchi College is designed to provide foundational and practical exposure to computer hardware and networking concepts.
2. With the rapid digitization across sectors, there is a growing demand for skilled professionals who can assemble, maintain, and troubleshoot computer systems and networks.
3. This program aims to bridge the gap between theoretical learning and real-world application, preparing students for future technical roles and advanced studies in IT infrastructure.

Objectives

1. To introduce students to the **fundamental components of computer hardware** and their respective functions.
2. To develop practical skills in **assembling, maintaining, and troubleshooting personal computers**.
3. To impart knowledge on the **installation and configuration of operating systems** (Windows and Linux).
4. To familiarize students with **basic networking concepts**, including network types, OSI model, and IP addressing.
5. To enable students to perform **basic network configuration and troubleshooting** using standard commands and tools.
6. To cultivate an understanding of **basic security practices** and routine maintenance tasks for computer systems.

Basic Course Structure and Syllabus

1. **Duration:** One month (approximately 120 hours), combining hands-on sessions, theory, and project work.

Module 1: Computer Hardware Basics (12 hrs)

- Identify all components + new generation hardware – 2 hrs
- Assembling desktops of different generations – 3 hrs
- Disassembling and replacing components – 2 hrs
- BIOS/UEFI advanced settings + TPM, virtualization – 2 hrs
- Testing with POST cards, diagnostic tools, benchmarking – 3 hrs

Module 2: OS Installation & Configuration (16 hrs)

- Windows installation (multiple versions + unattended setup) – 3 hrs
- Linux: Ubuntu, Kali, and CentOS hands-on – 3 hrs
- Driver installations, update tools & device manager – 2 hrs
- Dual boot + Multi-boot systems – 2 hrs
- Performance tuning, services, and startup optimization – 3 hrs
- Imaging, backup, and recovery (Clonezilla, Acronis) – 3 hrs

Module 3: Troubleshooting & Maintenance (12 hrs)

- Advanced cleaning, thermal solutions, fan testing – 2 hrs
- Hiren's Boot CD, MemTest86, and SSD diagnostics – 3 hrs
- Fixing boot issues: GRUB, MBR/BCD repair – 2 hrs
- Virus cleanup with live antivirus tools – 2 hrs
- Simulate advanced hardware issues & resolve – 3 hrs

Module 4: Networking Fundamentals (10 hrs)

- Static vs dynamic IP practice – 2 hrs
- Subnetting problems + VLSM examples – 2 hrs
- Utility commands: Advanced scenarios – 2 hrs
- Protocol analysis using Wireshark – 2 hrs
- Demo on LAN/WAN setups and comparisons – 2 hrs

Module 5: Network Devices and Setup (16 hrs)

- Identify L1, L2, L3 devices and configurations – 2 hrs
- Crimping and testing crossover/cat6 cables – 4 hrs
- Wireless router advanced settings (QoS, Port Forwarding) – 4 hrs
- Practice setting up LAN with permissions and access control – 3 hrs
- Troubleshooting network cable and port issues – 3 hrs

Module 6: Server Configuration (16 hrs)

- Install and configure multiple servers (AD, Mail, Proxy) – 4 hrs
- DHCP/DNS setup with troubleshooting – 4 hrs
- FTP, Web server: Configure Apache, NGINX, IIS – 4 hrs
- User groups, policies, and secure folder access – 4 hrs

Module 7: Network Security (10 hrs)

- Configure complex firewall rules (iptables, Windows Defender) – 2 hrs
- Antivirus testing with threat simulations – 2 hrs
- Simulate DDoS, MITM, ARP spoofing (in lab) – 3 hrs
- Secure WiFi, MAC filtering, Guest isolation – 3 hrs

Module 8: Cloud & Virtualization (10 hrs)

- Create multiple VMs with shared networks – 3 hrs

- Cloud tools: AWS (EC2, S3), Microsoft Azure demo – 3 hrs
- Practice IaaS, PaaS, SaaS with practical comparisons – 2 hrs
- Install Proxmox or ESXi for local virtualization – 2 hrs

Module 9: Final Project & Viva (18 hrs)

- Full system build with network integration – 4 hrs
- Set up hybrid server-client system with DNS/FTP – 4 hrs
- Simulate failure & apply recovery techniques – 3 hrs
- Security implementation and documentation – 3 hrs
- Viva + Project presentation + Peer review – 4 hrs

Summary Table (120 Hours)

- Module 1: Hardware Basics - 12 hrs
- Module 2: OS Installation - 16 hrs
- Module 3: Troubleshooting - 12 hrs
- Module 4: Networking Fundamentals - 10 hrs
- Module 5: Network Devices Setup - 16 hrs
- Module 6: Server Configuration - 16 hrs
- Module 7: Network Security - 10 hrs
- Module 8: Cloud & Virtualization - 10 hrs
- Module 9: Final Project & Viva - 18 hrs
- Total - 120 hrs

Key Learning Outcomes

1. Students will be able to **identify and assemble all major hardware components** of a desktop computer.
2. They will gain the ability to **install and configure both Windows and Linux operating systems** independently.
3. Students will demonstrate proficiency in **basic network setup and troubleshooting**, including IP configuration and device connectivity.
4. They will be capable of **implementing essential security settings and performing routine maintenance** (backups, antivirus, performance monitoring).
5. By the end of the internship, students will have completed hands-on projects, enhancing their **problem-solving skills and technical confidence** in hardware and networking domains.

Department: Interdisciplinary / Open to All UG Disciplines

Course Title: Documenting Rajbangshi Language and Culture: Methods and Challenges

Course Code: 3

Credits: 2

Duration: 120 Hours

Collaborating Partners:

1. **Sitalkuchi College, Cooch Behar**
2. **Centre for Folklore Studies and Research (CFSR)**

Patron

Dr. Sangeeta Roychowdhury, Teacher-in-Charge, Sitalkuchi College

Coordinating Supervisors & Mentors

Dr. Dhananjoy Roy, SACT, Department of Bengali, Sitalkuchi College

Dr. Susanta Kumar Bardhan, Associate Professor of English, Suri Vidyasagar College, Birbhum. General Member, CFSR

Duration: Two Months (July to August, 2025)

Mode: Online / Offline / Hybrid

Background and Rationale

The present internship is designed by looking at the local language of the students so that they can find it similar to their culture and language. The Rajbangshi community is also known as Koch-Rajbongshi, residing primarily in the North Bengal region, including Assam and Bangladesh. They have their unique culture and heritage, which are so prominently visible in their day-to-day life and practice. However, due to the effects of migration and urbanization, the language and culture are facing threats. As students of humanities and social science, it is our responsibility to think more on the subject of culture and heritage. The internship program intends to equip learners with theoretical and practical knowledge for documenting, preserving, and promoting the Rajbangshi language and culture through their art, food habits, culture, and folklore.

Objectives

1. To introduce the basics of linguistic and cultural documentation of the Rajbangshi language
2. To make them understand the uniqueness of the Rajbangshi language and culture.

3. To equip learners with how to study culture and heritage that is their own.
4. To explore more on the concept of methodological challenges in community-based research.
5. To be able to understand the importance of interdisciplinary methods of studying folklore and language studies.
6. To train field methods, including recording, interviews, documentation, and transcription.

Modules / Course Structure

Module 1: Introduction to Rajbangshi Language and Culture

Module 2: Different Aspects of Folklore

Module 3: Fundamentals of Documentation

Module 4: Field Methods and Techniques

Module 5: Fieldwork

Module 6: Project Work and Presentation

Methodology

1. Lectures and interactive seminars by the local community scholars and researchers and artists.
2. Audio-visual Recordings will be screened
3. Hands-on practice on documentation and fieldwork
4. Invited lectures from Rajbangshi scholars and community members and artists
5. Field visit to different nearby places

Expected Outcomes

The students will gain the practical knowledge behind research on their own community on the basis of ethnographic and linguistic perspectives. They have been introduced to the research skills that they will carry forward in their future academic endeavors. The materials that they will collect can be archived in a proper systemic manner. Moreover, the course will give them an awareness to understand the key issues of safeguarding endangered culture, language, and heritage. Above all, they will be motivated for further initiatives in their research and practice.

Department: Interdisciplinary / Open to All UG Disciplines

Course Title: Internship Programme in Folklore Studies

Course Code: 4

Credits: 2

Duration: 120 Hours

Collaborating Partners:

Sitalkuchi College, Cooch Behar

Centre for Folklore Studies and Research (CFSR)

Patron & Nodal Officer

Dr. Sangeeta Roychowdhury, Teacher-in-Charge, Sitalkuchi College

Coordinating Supervisors & Mentors

Prof Pradip Kumar Roy , Head, Department of Bengali , Sitalkuchi College

Mr. Rajarshi Das, Coordinator and Librarian, Central Library, Banwarilal Bhalotia College, Asansol, General Member, CFSR

1. Introduction

Folklore is the body of knowledge that includes the traditional tales, songs, dances, proverbs, gestures, rites and ceremonies of a people passed down through the ages from generation to generation. According to Allan Dundes, the "great folklorist," folklore was "artistic communication in small groups" and folklore was essentially a way that a group identifies itself, its values, and its worldview. In other words, folklore is the study of how traditions, beliefs, and expressive forms rooted in the collective memory and living experiences of a community are transferred, altered, and given meaning over time. It is in this light, the study of this fluid interplay between tradition and innovation, between continuity and change that they help illuminate the intricate social, political, and historical forces that shape a people's cultural heritage. Folklore is the study of a community's sense of belonging, shared identity and lived experiences as reflected in their collective narratives, rituals, artistic manifestations and other customary practices. This field of study does not only enlighten one on the variety of human cultures, but it also shows how these cultural traditions can serve as a mechanism for resilience, resistance, and empowerment for marginalized and/or oppressed peoples. The study of folklore is key to a deeper understanding of the intricate and rich cultural heritage and varied traditions that characterize nations everywhere. Folklore includes a wide and very diverse array of cultural expressions, including oral narratives and traditional tales, rituals, customs, and works of art, real and mythological, that are transmitted from generation to generation, and which help to shape and express the community's experience and identity.

2. Rationale

Folklore studies explore the living cultural traditions of communities: oral tales, folk songs, performative arts, crafts, rituals, and beliefs passed through generations. As a dynamic field, folklore helps preserve intangible cultural heritage while illuminating how societies build resilience, collective identity, and creative expression.

This internship aims to align with the NEP-2020 internship policy, which focuses on employability and research skill-building:

1. Bridge academic learning with real-world community-based folklore research.
2. Equip students with basic fieldwork, documentation, and interpretive skills.
3. Encourage interdisciplinary approaches by welcoming students from all academic backgrounds.

2. Objectives

By the end of this internship, students will:

- ✓ Understand the scope, genres, and cultural significance of folklore.
- ✓ Gain basic training in folklore research methodologies: fieldwork, interviews, and audio-visual documentation.
- Develop ethical and critical thinking in representing community traditions.
- ✓ Apply lessons learned to interpret folklore's role in cultural heritage and community resilience.
- Improve teamwork, presentation, and reporting skills through collaborative field activities.

4. Internship Structure

This internship programme on Introduction to Folklore Studies has been designed keeping in mind the National Education Policy, where it underlines the importance of experiential learning, interdisciplinary views, and the development of critical thinking skills. The course will be for 60 hours and will incorporate multiple teaching methods, such as online lectures, practical demonstrations in the field, project work, reading sessions, documentary viewings, and collaborative learning. The course will be offered in hybrid mode; in a sense, both online and offline sessions will be conducted.

Component Hours Details Orientation & Theory Sessions 40 hrs. —Introduction to folklore studies: key terms, genres, and theories. - Overview of field methods and documentation ethics.

Fieldwork & Community Immersion 40 hrs. —Local site visits coordinated by Sitalkuchi College guided by CFSR Team - Observation, interviewing, recording songs/stories/performances.

Documentation & Archiving 20 hrs—Basic training in audio-visual recording, transcription, and cataloguing folklore artifacts.

Analysis & Report Writing 10 hrs—Organizing collected material, writing descriptive and analytical notes.

Seminar & Presentation 10 hrs.—Group presentation and viva on findings and experiences.

Total Engagement: 120 hours.

4. Activities

Students may choose or be assigned to one or more **core activities**, such as

1. **Recording Folk Songs & Oral Narratives:** Documenting songs, tales, proverbs, and local legends in rural or semi-urban communities.
2. **Field Documentation of Folk Performing Arts:** Observing and filming dance, theatre, puppet shows, or local festivals.
3. **Material Culture Survey:** Recording details of folk crafts, tools, ritual objects, or attire.
4. **Interviews with Local Tradition Bearers:** Understanding socio-cultural contexts and transmission of folklore.
5. **Community Mapping:** Creating a simple digital/hand-drawn map indicating important folk sites in a village or locality.

5. Evaluation & Certification

Component Marks Continuous Assessment (CA): Attendance, Participation, Field Notes 30 Marks End Semester Evaluation (ESE): Report (Approximately 3000 words) & Presentation/Viva 20 Marks **Total 50 Marks**

1. Students must submit:
 1. Internship report with field photos/audio/video links.
 2. Attendance certificate and signed completion certificate by supervisor & mentor.

6. Key Learning Outcomes

Upon successful completion, students will:

- ✓ Recognize core folklore genres and their relevance to cultural identity.
- ✓ Demonstrate beginner-level skill in folklore field research and documentation.
- ✓ Connect folklore study with broader cultural preservation and sustainability goals.
- ✓ Present their findings clearly in written and oral form, using appropriate terminology.

7. Duration & Timeline

Duration: 120 working hours, July to August 2025 as per the availability of the college students.

8. Medium of Instruction: Rajbanshi, English & Bengali

9. Administration

The internship will be fully organised and monitored by the Patron and Nodal Officer in association Sitalkuchi College and CFSR. The evaluation process will be carried out jointly by CFSR and Sitalkuchi College. A dedicated registration system will be developed for future batches. This internship combines academic learning with meaningful community engagement, practical research training, and creative skills. It nurtures graduates who are culturally aware, research-oriented, and workplace-ready.

Tentative Expert Members (Online/ offline/ Recorded Lecture)

1. Dr. Md Kaikubad Ali, Assistant Professor (Contractual), Department of Geography, Jamia Millia Islamia, New Delhi.
2. Prof. Joly Puthussery serves as the Head of the Centre for Folk Culture Studies, School of Social Sciences, at the University of Hyderabad, India.
3. Dr. Sanjukta Naskar, Associate Professor, Janki Devi Memorial College, Delhi
4. Dr. Soma Chakraborty, Associate Professor, Department of Bengali, Banwarilal Bhalotia College, Asansol
5. Mr. Rajarshi Das, Coordinator and Librarian, Central Library, Banwarilal Bhalotia College, Asansol
6. Dr. Manas Kumar Ganguli, Librarian, Sonamukhi College, affiliated to Bankura University
7. Dr. Bidisha Chakraborty, Assistant Professor, Amity Institute of English Studies and Research, Amity University Jharkhand
8. Kalam Patua, Renowned Patachitra Artist
9. Mrittika Malakar, State Aided College Teacher in the Department of English at P.N. Das College, North 24 Parganas
10. Dr. Kuntalika Jharimune, Assistant Professor, VIIT, Vizag
11. Dr. Md Intaj Ali, Assistant Professor of English, Netaji Subhas Open University
12. Anirban Sadhu, Visiting Professor at Techno India University-Salt Lake
13. Jewel Siddiki, DOP & Cinematographer.
14. Partha Pratim Das- Creative Visual Designer
15. Dr.Md.Razi Anwar, Associate Professor, School of Business Management, NSHM Knowledge Campus-Durgapur,