

ITEX 340 Professional IT Project I

Course Title: Professional IT Project I

Course Code: ITEX 340

Credit Hours: 2 (Practical)

Nature: Practical

Course Description and Goals

This project-based course emphasizes collaborative problem-solving in Information Technology (IT) within local educational challenges. Each student group will be assigned a supervisor to guide their progress, while an external evaluator will assess the final project outcomes through inquiry, viva, and demonstration. Additionally, students will maintain individual log sheets to track their contributions, progress, and reflections throughout the project. **Theme:** Project-based learning with Supervised Progress

Learning Outcomes

On completion of this course, the students will be able to:

- Identify and analyze local educational challenges suitable for IT-based solutions.
- Formulate project proposals with clear objectives, methodologies, and expected outcomes.
- Apply IT concepts and tools to design, develop, and implement innovative solutions.
- Collaborate effectively in groups, demonstrating teamwork, communication, and project management skills.
- Present project findings professionally and respond to inquiries and feedback during viva and demonstration.
- Reflect on the project experience, lessons learned, and implications for future IT projects.

Course Expectations:

1. Group Formation and Project Proposal:
 - a. Form groups based on common interests and skills, and submit a detailed project proposal outlining objectives, methodologies, and timelines.
 - b. Each group will be assigned a supervisor for ongoing guidance and progress monitoring.
2. Weekly Progress Updates with Supervisor:
 - a. Groups are required to contact their supervisors weekly to discuss progress, and challenges, and receive feedback.
 - b. Supervisors will provide input and guidance to ensure projects stay on track and meet objectives.
3. Individual Log Sheet Maintenance:
 - a. Students will maintain individual log sheets to document their contributions, tasks completed, challenges faced, and reflections on the project.
 - b. Log sheets should be updated regularly and submitted as part of the final project documentation.
4. Project Development and Implementation:
 - a. Utilize IT tools and techniques to design, develop, and implement solutions for identified educational challenges.
 - b. Regularly communicate with supervisors to showcase progress and seek input.

5. Project Presentation and Demonstration:
 - a. Prepare a comprehensive project presentation and demonstration showcasing key features, functionality, and outcomes.
 - b. Respond to inquiries and feedback during viva and demonstration sessions conducted by the external evaluator.
6. Project Report and Reflection:
 - a. Submit a detailed project report documenting the problem-solving process, methodologies, results, and recommendations.
 - b. Reflect on the project experience, challenges faced, lessons learned, and future implications for IT projects in the individual log sheets.

Course Structure:

- Group Formation and Project Proposal Submission - Weeks 1-2
- Weekly Progress Updates with Supervisors - Weeks 3-13
- Project Development and Implementation - Weeks 4-14
- Project Report Submission and Reflection - Week 15
- Project Presentation and Demonstration - Week 15
- Individual Log Sheet Maintenance - Throughout the Course

Assessment Methods:

Supervisor Evaluation (Fortnightly Progress) - 60%

External Evaluation (Viva, Demonstration, Project Report) - 40%

Note: The course syllabus and assessment weights are subject to adjustments based on project progress, feedback, and instructor discretion. Individual log sheets will contribute to the overall assessment through reflection and documentation of individual contributions to the project. An external examiner will be from Kathmandu University.

Table 1: Course Structure Gantt chart

| | Project Proposal and Group Formation | | Project Development and Implementation | | | | | | | | | | | Project Presentation and Documentation | | External Feedback and Grading |
|-----------------------------|--------------------------------------|---|--|---|---|---|---|---|---|----|----|----|----|--|----|-------------------------------|
| Tasks /Weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Group Formation | ✓ | ✓ | | | | | | | | | | | | | | |
| Project Proposal | ✓ | ✓ | | | | | | | | | | | | | | |
| Supervisor Meetings | | | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | |
| Individual Log | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Project Development | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Presentation Preparation | | | | | | | | | | | | | ✓ | ✓ | ✓ | |
| Project Report | | | | | | | | | | | | | ✓ | ✓ | ✓ | |
| Internal Reflection | | | | | | | | | | | | | | ✓ | ✓ | |
| External Feedback & Grading | | | | | | | | | | | | | | | | ✓ |