Gyanmanjari Innovative University

Course Syllabus
Gyanmanjari Institute of Technology
Semester-3 (B.Tech)

Subject: Creative Design Hub Project-I – BETXX13360

Type of course: Professional Core

Prerequisite: Practical Knowledge and Analytic Skills

Rationale:

The basic purpose of this subject is to provide students with a structured, hands-on learning experience that bridges theoretical knowledge with real-world application. By guiding students through the process of selecting, researching, executing, and presenting a project, the syllabus aims to develop critical thinking, research, problem-solving, and communication skills. It encourages independent learning, ethical research practices, and professional presentation abilities, preparing students for both academic success and future career challenges.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
				Theory Marks		Practical Marks		
CI	T	P	C	ESE	MSE	V	P	
0	0	4	2	0	0	80	20	100

Legends: CI-Classroom Instructions; T – Tutorial; P - Practical; C – Credit; ESE - End Semester Examination; MSE- Mid Semester Examination; V – Viva;

Course Content:

Sr. No	Course Content
1	**Introduction to the Project and Project Proposal:** Understanding the scope, purpose, and goals of the project. Overview of project methodology. Project planning and scheduling. Selection of project topics. Literature review and background research. Developing a project proposal that outlines the research question, objectives, methodology, and timeline. Writing a project proposal. Defining project scope and objectives. Selecting research methods (qualitative/quantitative). Setting timelines and milestones. Identifying resources required for the project.
2	**Literature Review and Research Methodology:** Conducting a thorough review of existing research and sources related to the project topic. Methods of reviewing academic papers and sources. Summarizing findings and identifying gaps. Developing a theoretical framework for the project. Choosing and applying appropriate research methodologies. Qualitative vs. Quantitative research methods. Data collection techniques (surveys, interviews, experiments). Data analysis methods (statistical analysis, coding, thematic analysis). Ethical considerations in research.
3	**Data Collection, Analysis, and Project Development:** Collecting and analyzing the data to address the research questions or project goals. Data collection tools and techniques. Organizing and managing data. Statistical software/tools for analysis (e.g., SPSS, Excel, Python). Interpreting and presenting results. Working on the project and applying learned concepts to develop and execute the project. Project design and implementation. Prototyping, coding, or experimental work. Collaboration with team members (if applicable). Project management tools (e.g., Gantt charts, Trello).
4	**Report Writing, Presentation, and Conclusion:** Documenting the project process, findings, and conclusions in a formal report. Structure of a project report (Introduction, Methodology, Results, Discussion, Conclusion). Writing an abstract and summary. Referencing and citation styles (APA, MLA, etc.). Proofreading and editing. Presenting the project findings to an academic or professional audience. Creating an effective PowerPoint/visual presentation. Delivering a clear and concise oral presentation. Responding to questions and feedback. Project defense (if applicable). Summarizing project results and suggesting potential future research or improvements. Key findings and their implications. Limitations of the project. Recommendations for future research.

Suggested Specification table with Marks (Theory): N/A

Distribution of Theory Marks (Revised Bloom's Taxonomy)						
Level	**Remembrance (R)**	**Understanding (U)**	**Application (A)**	**Analyze (N)**	**Evaluate (E)**	**Create (C)**
Weightage %	N/A	N/A	N/A	N/A	N/A	N/A

Course Outcome:

After learning the course, the students should be able to:	
CO1	Gain practical experience in project design, implementation, and evaluation.
CO2	Develop problem-solving skills and the ability to work independently.
CO3	Enhance research, critical thinking, and communication skills.
CO4	Prepare and present a professional project report and defense.

Instructional Method:

The course delivery method will depend upon the requirement of content and the needs of students. The teacher, in addition to conventional teaching methods by black board, may also use any tools such as demonstration, role play, Quiz, brainstorming, MOOCs etc.

From the content 10% topics are suggested for flipped mode instruction.

Students will use supplementary resources such as online videos, NPTEL/SWAYAM videos, e-courses, Virtual Laboratory.

The internal evaluation will be done on the basis of Active Learning Assignment.
Practical/Viva examination will be conducted at the end of semester for evaluation of performance of students in the laboratory.