Department of Liberal Education
Era University, Lucknow
Course Outline
Effective From: 2023-24

Name of the Program	B.A. / B.Sc. (LIBERAL EDUCATION)			Year/ Semester:	3rd /6th
Course Name	Capstone Project/ Research Project/ Dissertation	Course Code:	CS308	Type:	Practical
Credits	03			Total Practical Hours:	90
Evaluation Spread	Internal Continuous Assessment:	50 Marks		End Term Exam:	100 Marks
Type of Course	○ Compulsory	◉ Core		○ Creative	○ Life Skill
Course Objectives	• To develop skills that are highly valued in professional settings, such as research proficiency, critical thinking, communication, project development and management. It prepares students for future career opportunities or further academic pursuits.				

Guidelines for the projects creation and submission

The allotment of the project will be held after the 4th semester. The brief guidelines of the major project:

- **No. of records –** 3 Copies of the Project Report
- **The minimal phases for the project are** Project search, finalization and allocation, Investigation of system requirements, Data and Process Modeling, System Design, Program design, Program coding and unit testing, System integration, System implementation and acceptance testing.
- **Selection of project work:** Project work could be of 3 types:
  a) **Developing solution for a real-life problem:** In this case, a requirement for developing a computer-based solution already exists and the different stages of the system development life cycle is to be implemented successfully. Examples are Accounting Software Package for a particular organization, Computerization of administrative functions of an organization, Web Based Commerce, etc. The scope for creativity and Exploration in such projects is limited, but if done meticulously, valuable Experience in the industrial context can be gained.
  b) **Innovative Product development:** These are projects where a clear-cut requirement for developing a computer-based solution may not be existing, but a possible utility for the same is conceived by the proposer. An Example is a Hindi Language Editor with Spell Checker, Computer Music Software for Indian Music, Heat Engines Simulation Software for e Learning, Digital Water Marking Software.
  c) **Research level project:** These are projects which involve research and development and may not be as structured and clear cut as in the above case. Examples are Hindi Character Recognition, Neural Net Based Speech Recognizer, Biometric Systems, and

Machine Translation System etc. These projects provide more challenging opportunities to students. If any student identifies proper support in terms of guidance, technology and references from External organizations and also the supervisors are convinced of the ability of the student(s) to take up the project, it shall be permitted. The methodology and reporting of such projects could be markedly different from type (a) and is left to the proposer/external supervisor of the projects.

Overall Major Project will be by Supervised by Department teachers.
Presentations based on the Major Project will be evaluated by an external examiner
appointed by the University.

Course created by: Dr. Mohd Haleem	Approved by: Prof. Mansaf Alam
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