

B.Sc. III-Year, VI-Semester (CBCS): Data Science Syllabus
Paper-VI: Data Science Project
[4 HPW :: 4 Credit :: 100 Marks :: (External: 80, Internal: 20)]

Course Objectives and Outcomes:

1. To enhance practical and professional skills.
2. To familiarize tools and techniques of systematic Literature survey and documentation
3. To expose the students to industry practices and team work and Demonstrate effective written and oral communication skills.
4. To encourage students to work with innovative and entrepreneurial ideas.
5. Demonstrate the ability to synthesize and apply the knowledge and skills acquired in the academic program to real-world problems.
6. Effectively plan a project and confidently perform all aspects of project management

Project is of duration maximum 4 months. Each student carries out a group project /individually. Use standard thesis format of O.U. for project Report (Times New Roman font, Title page, declaration by student, certificate from the supervisor, Contents page etc.). Should submit Hard bound copy covering the topics mentioned above before the last instruction date of the semester. A student can carry out the project at industry also if college permits. A student with the help of the guide formulates the problem. The aim of project work is to develop solutions to realistic problems (related to Data Science) applying the knowledge and skills obtained in different courses, new technologies and current industry practices. The department will appoint a project coordinator and Internal supervisor who will coordinate: formalise the project proposal with problem definition, scope, literature survey, Collection of dataset(s), applying the relevant data preprocessing techniques, Dats description, dataset objectives, Hypothesis framed, Descriptive statistics, Data visualization, machine and deep learning techniques implementation (minimum five), evaluation of metrics, drawing inferences and its interpretation should be placed in the Project Report along with code of implementation and outputs. Conducting seminar presentations (minimum three total carries 20 marks). Each student will be required to:

1. Submit a one-page synopsis before the seminar for display on notice board.
2. A 30 minutes presentation of project followed by 10 minutes discussion.
3. Submit a technical write-up on the talk.
