**Capstone I**

By empowering students with the skills necessary to access, understand and evaluate information, capstone project will support students in the achievement of 21st century learning expectations. Students work in teams to develop or implement a real-world IT solution

* Address a typical business and organizational need such as data management, application development, system deployment, or security analysis.
* Apply information technologies, applications, best practices, and standards in technical design, development, and implementation.
* Practice soft skills in a real world it project, including project planning and management, research and learning, communication, writing, presentation, and team work

Building Web Application

* A list of web application project is floated (based on real life applications in market) where in students can chose their project.
* Students work in a team of 4-5 members.
* Students can also propose their own idea which needs to be approved by university.
* They are independent to use technology of their own choice to build the application (like Java, .NET, PHP, Python etc)
* Learn to use appropriate frameworks (like Spring, Djang0 etc)
* Database of their own choice (like Postgres, MySQL, SQL Server etc)

Topics covered in Capstone I

* Web Application Development
* Django and Flask Framework
* Database connectivity
* Security
* Web Services
* Unit Testing
* Selenium
* Usage of Git
* Deployment on Apache/Heroku

Marks Evaluation

* Students are evaluated based on presentation / demonstration and viva.
* Mid Term 1 – 15%
* Mid Term 2 – 30%
* Comprehensive – 45%
* Attendance – 10%
* Individual contribution is 90% for a student where as 10% is team work

Scope of improvement

* Multiple Choice Question in Mid Sem 1 and Mid Sem 2 apart from presentation / demonstration and viva.