SCHEME OF COURSE WORK

CourseDetails:

CourseTitle	**:Design Thinking and Innovation**		
CourseCode	**:22ME11D1**	**L T P C**	**:0 0 3 1.5**
Program:	**:B.Tech.**		
Branch:	**: computer Science and Engineering**		
Semester	**:IV**		

Course Outcomes (COs):

On successful completion of the course, the student should be able to

CO	Course Outcomes
1	Outline a problem, apply methods of Empathy on user groups
2	Describe and define the problem specific to the user group
3	Apply Ideation tools to generate Ideas to solve the problem
4	Develop prototype
5	Test the ideas and demonstrate Story telling ability to present the Ideas

Course Outcome Versus **Program Outcomes** Versus **Program Specific Outcomes:**

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO-1	3					2		2	3	3	2	3			
CO-2	2							2	3	3	2	3			
CO-3	3		2				3	3	3	3	2	3			
CO-4	3		2	3	2		3	3	3	2	2	3			
CO-5	3			3	2					3	2	3			

3-Strongly correlated,2-Moderately correlated,1-Weakly correlated,Blank–No correlation

Assessment Methods:	Assignments/Article/Prototype/Internal Exam(Presentation)/End Exam (Presentation/demo)

Teaching-Learning and Evaluation

Week	Contents	Course Outcome	Sample Questions	Teaching Learning Strategy	Assessment Method &Schedule
1	Identify an Opportunity and Scope of the Project	CO-1	What is the domain area Identified by your team?	Lecture,PPT, Group Discussion	Activity,Display (Week 1)
2	Explore the possibilities and Prepare design brief	CO-1	Present the design brief	Lecture,PPT, Group Discussion	Presentation (Week 2)
3	Apply the methods of Empathize and Define Phase	CO-2	Develop Empathy map	Lecture, PPT, Group Discussion,Roll play	Presentation (Week 3)
4	Finalize the problem statement	CO-2	Present your final how might we statement	Lecture,PPT, Group Discussion	Presentation (Week 4)
5	Apply the methods of Ideate Phase	CO-3	Tools used for Ideate phase	Lecture,PPT, Group Discussion	Presentation (Week 5)
6	Generate lots of Ideas	CO-3	Brainstorming result	Lecture,PPT, Group Discussion	Presentation (Week 6)
7	**InternalExam-1**				
8	Apply the Methods of Prototype Phase	CO-4	Evaluate the ideas And select the best one	Lecture,PPT, Group Discussion	Presentation (Week 8)
9	Create prototypes of selected ideas	CO-4	Apply your learning to develop a prototype	Lecture,PPT, Group Discussion	Presentation (Week 9)
10	Test the	CO-4	Present the	Lecture,PPT,	Presentation
	prototype and collect feedback		Feedback on test phase	Group Discussion	(Week10)
11	Iterate and improve the ideas	CO-5	What is the importance of Early failure?	Lecture,PPT, Group Discussion	Presentation (Week 11)

12	Present your solution through Story telling method	CO-5	Present the most effective solution	Lecture,PPT, StoryTelling	Presentation (Week 12)
13	Fine tuning and submission of project report	CO-5	Project Report	PPT	Presentation (Week 13)
14	**InternalExam–2(PresentationandDemoofprototype)**				
15	**ExternalExam(PresentationandDemoofprototype)**				