Regulation 2018		-	Total Hours			96
			Hours / Week			C
Category	Course Code	Course Name	L	T	P	
E	18CSE040L	PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP	0	0	6	3

Prerequisite Course (s)

NIL

Course Objective (s):

The purpose of learning this course is to:

1	To empower students with overall Professional and Technical skills required to solve a real world problem.
2	To mentor the students to approach a solution through various stages of Ideation, Research, Design Thinking, workflows, architecture and building a prototype in keeping with the end-user and client needs.
3	To provide experiential learning to enhance the Entrepreneurship and employability skills of the students.

Course Outcome (s) (COs):

At the end of this course, learners will be able to:

CO1	Upskill in emerging technologies and apply to real industry-level use cases.
CO2	Understand agile development process.
CO3	Develop career readiness competencies, Team Skills / Leadership qualities.
CO4	Develop Time management, Project management skills and Communication Skills.
CO5	Use Critical Thinking for Innovative Problem Solving.
CO6	Develop entrepreneurship skills to independently work on products.

CO-PO Mapping

COs	POs												PSOs	
	PO1	PO2	PO3	PO 4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	2	2	2	3	2	2	2	3	2
CO2	3	3	3	3	3	3	2	2	3	3	3	3	3	2
CO3	3	3	3	3	3	2	1	3	3	3	3	3	3	2

M.KUMARASAMY COLLEGE OF ENGG. (AUTONOMOUS)
Approved By
Board of Computer Science on
12 MAY 2022
KARUR - 639113

CO4	3	3	3	3	3	3	2	2	3	3	3	3	3	2
CO5	3	3	3	3	3	2	2	2	3	2	3	3	3	2
CO6	3	3	3	3	3	2	1	2	3	3	3	3	3	2
CO (Avg.)	3	3	3	3	3	2.3	1.6	2.1	3	2.6	2.8	2.8	3	2

1: Slight (Low) **2: Moderate (Medium)** **3: Substantial (High)**

Activity Name	Activity Description	Time (weeks)
Choosing a Project	Selecting a project from the list of projects categorized various technologies & business domains	2
Team Formation	Students shall form a team of 4 Members before enrolling to a project. Team members shall distribute the project activities among themselves.	1
Hands on Training	Students will be provided with hands-on training on selected technology in which they are going to develop the project.	2
Project Development	Project shall be developed in agile mode. The status of the project shall be updated to the mentors via appropriate platform	6
Code submission, Project Doc and Demo	Project deliverables must include the working code, project document and demonstration video. All the project deliverables are to be uploaded to cloud based repository such as GitHub	3
Mentor Review and Approval	Mentor will be reviewing the project deliverables as per the milestone schedule and the feedback will be provided to the team	1
Evaluation and scoring	Evaluators will be assigned to the team to evaluate the project deliverables, and the scoring will be provided based on the evaluation metrics	1
	TOTAL	**16 Weeks**

KUMARASAMY COLLEGE OF ENGG. (AUTONOMOUS)
Approved By
Board of Computer Science on
12 MAY 2022

Regulation 2018		-	Total Hours			15
Category	Course Code	Course Name	Hours / Week			C
			L	T	P	
X	18CSX011L	GOOGLE CLOUD COMPUTING FOUNDATIONS	0	0	2	1

Prerequisite Course (s)

Nil

Course Objective (s):

The purpose of learning this course is to:

1	Understand the foundations of Google Cloud Computing.

Course Outcome (s) (COs):

At the end of this course, learners will be able to:

CO1	Design and develop applications using google cloud.

CO-PO Mapping

COs	POs												PSOs	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	1	2	-	-	-	1	1	-	1	3	3
CO (Avg.)	3	2	3	1	2	-	-	-	1	1	-	1	3	3

MODULES

1. Cloud Basics: Discuss what the cloud is and why it's a technology and business game changer
2. User interface: Describe the different ways a user can interact with Google Cloud
3. Compute: Discover the compute options in Google Cloud
4. Storage: Implement a variety of structured and unstructured storage models
5. Managed Services: Discuss the different application managed service options in the cloud
6. Security: Outline how security in the cloud is administered in Google Cloud
7. Networks: Demonstrate how to build secure networks in the cloud
8. Automation: Identify cloud automation and management tools
9. Big data: Discover a variety of managed big data services in the cloud
10. Machine learning: Explain what machine learning is, the terminology used, and its value proposition

REFERENCE(S):

1.	https://www.cloudskillsboost.google/

K.S.RANGASAMY COLLEGE OF ENGG (AUTONOMOUS)
Approved By
Board of Computer Science on
12 MAY 2022