SSN COLLEGE OF ENGINEERING, KALAVAKKAM – 603 110
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
B.E(CSE) – CS6712 GRID AND CLOUD COMPUTING LABORATORY

ACADEMIC YEAR: 2017-2018 (ODD) **BATCH: 2014-2018**

COURSE DESCRIPTION

- Be exposed to tool kits for grid and cloud environment.
- Be familiar with developing web services/Applications in grid framework
- Learn to run virtual machines of different configuration.
- Learn to use Hadoop

BLOOMS TAXONOMY

Remember	Understand	Apply	Analyse	Evaluate	Create
K1	K2	K3	K4	K5	K6

COURSE OUTCOMES

CO1: Understand & Apply the concepts of Web Services [K3]
CO2: Understand & Use the grid and cloud tool kits. [K2]
CO3: Understand & Apply to develop applications on the Grid. [K3]
CO4: Understand & Apply to develop applications on the Cloud. [K3]

DESCRIPTION OF ASSESSMENT TOOLS

Programming Exercises: Implement SOA, Grid and Cloud Computing Applications
Exams: Continuous assessment, model practical and final exam.

COURSE ASSESSMENT MATRIX

	CO1	CO2	CO3	CO4
Programming Exercises	X	X	X	X
Exams	X	X	X	X

PROGRAMME OUTCOMES

1 Engineering knowledge: Our graduates will have the knowledge of mathematics, logic, probability and statistics, computer science and engineering, and the skill to apply them in the fields of computer software and hardware. **[K3]**

2 Problem analysis: Our graduates will have the knowledge and skill to identify, formulate, and solve hardware and software problems using sound computer science principles. **[K3, K4]**

3 Experimentation: Our graduates will have the skill to design and conduct experiments, organize, analyze, and interpret data. **[K3, K4, K5]**

4 Design and development: Our graduates will have the skill to design and construct hardware and software systems, components, or processes as per needs and specifications. **[K4]**

5 Team work: Our graduates will have the interpersonal and communication skills to function as team players on multidisciplinary teams.

6 Modern tools usage: Our graduates will be able to use the techniques, skills, and modern hardware and software tools necessary for computer engineering practice. **[K2, K3]**

7 Social and environmental responsibilities: Our graduates will demonstrate knowledge related to social, ethical, legal, economical, health and safety, sustainability and environmental dimensions.

8 Communication skills: Our graduates will be able to effectively communicate technical information in speech, presentation, and in writing.

9 Contemporariness: Our graduates will have knowledge of contemporary issues in the practice of their profession.

10 Self-learning: Our graduates will develop confidence for self-learning and ability for life-long learning.

11 Competitive exam preparedness: Our graduates will participate and succeed in competitive examinations such as GATE, IES, GRE.

12 Leadership: Our graduates are trained to enhance their managerial skills, leadership quality and entrepreneurial spirit.

COURSE OUTCOMES MAPPED TO PROGRAMME OUTCOMES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	K3	K4	K5	K4		K3						
CO1: K3	3	2	2	2	1	3						
CO2: K2	2	2	1	2	1	2						
CO3: K3	3	2	2	2	1	3				2		
CO4: K3	3	2	2	2	1	3				2		

3	Strong	2	Significant	1	Reasonable

Prepared By **Verified By** **Approved By**

K. Vallidevi Y. V. Lokeswari **PAC Member** **HOD / CSE**

Justification of CO-PO Mapping

CO	Description	Knowledge Level	Remarks
CO1	Understand & Apply the concepts of Web Services.	K3	K3: Apply the concepts of Web services for developing a calculator application.
CO2	Understand & Use the grid and cloud tool kits.	K2	K2: Installing Cloud and Grid toolkits
CO3	Understand & Apply to develop applications on the Grid.	K3	K3: Apply the learned toolkits – Globus for Grid Computing.
CO4	Understand & Apply to develop applications on the Cloud.	K3	K3: Apply the learned toolkits Eucalyptus for Cloud Computing.

Prepared By	Verified By	Approved By
K. Vallidevi Y. V. Lokeswari	PAC Member	HOD / CSE