

Noorul Islam Centre for Higher Education

(Deemed to be University u/s 3 of the UGC Act 1956)

Kumaracoil, Thuckalay, Kanyakumari District - 629 180

Accredited by NAAC with 'A' Grade

CS25 ME COMPUTER SCIENCE AND ENGINEERING



Student Performance and Learning Outcomes

CS25 ME COMPUTER SCIENCE AND ENGINEERING

Programme Outcome – PO	
PO-1	Apply the knowledge of mathematical foundations and computer science & engineering concepts to solve complex problems related to design, development, testing and maintenance of computing systems.
PO-2	Ability to identify, formulate and analyze complex problems in computer based applications.
PO-3	Manage effectively on teams to accomplish a common goal.
PO-4	Apply professional ethics and agree to the norms or responsibilities in engineering practice of computer science.
PO-5	Communicate effectively and prepare technical documents and oral presentations.
PO-6	Ability to use current techniques, skills and state-of-art tools for computing system
PO-7	Ability to apply design and development principles in the construction of software systems and in the allied engineering application domains.

PROGRAMME SPECIFIC OUTCOME(PSO)	
PSO-1	Graduates are prepared to perceive the fundamental concepts in Computer Science & Engineering.
PSO-2	Graduates will be able to apply the interaction between theory and practice for problem solving.
PSO-3	Graduates will be capable to analyze and interpret existing systems for developing innovative solutions.
PSO-4	Graduates will have the skill to adapt, contribute and innovate new technologies in the field of Computer Science & Engineering.
PSO-5	Graduates will interact with the peers in the industry and society.
PSO-6	Graduates will be able to pursue higher studies in engineering or management and pursue career paths in teaching or research.

Sl.No	Subject Code	Subject Name
SEMESTER II		
1.	CS25A7	Data Mining Techniques
2.	CS2507	Cloud Computing Technologies
3.	CS2505	Compiler Optimization
4.	CS2506	Advanced DBMS
5.	CS2509	Advanced Web Technologies
6.	CS2508	Networking Technologies
7.	CS2572	Cloud Computing Laboratory
SEMESTER IV		
8.	CS25P5	Project Work –Phase II

CS25A7– Data Mining Techniques	
CO1	Enable to understand and implement classical algorithms in data mining ; Students will be able to access the strengths and weakness of the algorithms, identify the application area of algorithms and apply them.
CO2	Learn data mining techniques as well as methods in integrating and interpreting the data sets and improving effectiveness, efficiency and quality for data analysis.
CO3	Compare and evaluate different data mining techniques like classification, prediction, clustering and association rule mining.
CO4	Understand data warehouse fundamentals ,data mining principles
CO5	Design data warehouse with dimensional modelling and apply OLAP operations.

CS2507– Cloud Computing Technologies	
CO1	To understand the concepts of cloud and utility computing
CO2	To understand the various issues in cloud computing
CO3	To familiarize themselves with the lead players in cloud
CO4	To appreciate the emergence of cloud as the next generation computing paradigm
CO5	To be able to set up private cloud

CS2505– Compiler Optimization	
CO1	Gives an explanation of compiler techniques, various tools and the various optimization methods for compiler
CO2	Identify the different optimization techniques that are possible for a sequence of code
CO3	Design performance enhancing optimization techniques
CO4	Manage procedures that are needed to overcome the optimal overheads
CO5	Ensure aware of techniques for better utilization of resources

CS2506– Advanced DBMS	
CO1	Design and implement the data models using various data modeling concepts and apply SQL to extract information from them.
CO2	Understand the concepts of parallel and distributed systems and then design and develop the databases for those systems.
CO3	Remember and understand XML and then design and implement XML databases
CO4	Understand and apply the multimedia concepts to design and develop multimedia databases.
CO5	Analyze and understand the current issues of computing systems and design advanced databases.

CS2509– Advanced Web Technologies	
CO1	Understand the basic network and web concepts and to implement interactive web pages using HTML, CSS and Javascript.
CO2	Design a responsive website using HTML forms, CGI and XML.
CO3	Explore the basics of Internet and Java Programming
CO4	Use the knowledge and skills for creation of website considering both client side and server side programming.
CO5	Demonstrate and Analyze simple web applications.

CS2508 - Networking Technologies	
CO1	Understand the Principles of N/W architecture and features of integrated and differentiated services.
CO2	Remember and understand the infrastructure, Management operation & Security of wireless Network
CO3	Remember and Understand the various protocols of wireless and cellular networks
CO4	Understand the features of 4G and 5G Networks
CO5	Analyze the concepts of software defined networks and apply them to design a framework.

CS2572 - Cloud Computing Laboratory	
CO1	Run their application on the instantiated VMS over different hypervisors.
CO2	Simulate their sample proposed systems.
CO3	Set up a private cloud with a open source cloud tool and deploy simple cloud services.
CO4	Develop map reduce application using hadoop setup.

CS25P5- PROJECT WORK –PHASE II	
CO1	Demonstrate a sound technical knowledge of their selected project topic.
CO2	Undertake problem identification, formulation and solution.
CO3	Design engineering solutions to complex problems utilising a systems approach.
CO4	Conduct an engineering project
CO5	Demonstrate the knowledge, skills and attitudes of a professional engineer.