

SIES Graduate School of Technology, Nerul, Navi Mumbai.

Department of Computer Engineering

B.E. in Computer Engineering (R-2016)

CURRICULUM R2016

First Year	
Sem I	Sem II
FEC101 – Applied Mathematics I	FEC201 – Applied Mathematics II
FEC102 – Applied Physics -I	FEC202 – Applied Physics -II
FEC103 – Applied Chemistry I	FEC203 – Applied Chemistry I
FEC104 – Engineering Mechanics	FEC204 – Engineering Drawing
FEC105 – Basic Electrical Engineering	FEC205 – Structured Programming Approach
FEC106 – Environmental Studies	FEC206 – Communication Skills
FEL105 – Basic Workshop I	FEC207 – Basic Workshop II
Second Year	
Sem III	Sem IV
CSC301 – Applied Mathematics III	CSC401 – Applied Mathematics IV
CSC302 – Digital Logic Design and Analysis	CSC402 – Analysis Of Algorithms
CSC303 – Discrete Mathematics	CSC403 – Computer Organization and Architecture
CSC304 – Electronic Circuits and Communication Fundamentals	CSC404 – Operating Systems
CSC305 – Data Structures	CSC405 – Computer Graphics
CSL301 – Digital Systems Laboratory	CSL401 – Analysis Of Algorithms - lab

CSL302 – Basic Electronics	CSL402 – Computer Graphics-lab
CSL304 – Object Oriented Programming and Methodology	CSL403 – Processor Architecture Lab
	CSL404 – Operating System-Lab
Third Year	
Sem V	Sem VI
CSC501 – Microprocessor	CSC601 –Software Engineering
CSC502 – Database Management system	CSC602 –System Programming and Compiler Construction
CSC503 – Computer Networks	CSC603 –Data Warehouse and Mining
CSC504 – Theory of Computer Science	CSC604 – Cryptography and system security
CSL501L – Microprocessor -Lab	CSL601L– Software Engineering lab
CSL502L – Computer Network Lab	CSL602L– System-Software Lab
CSL503L – Database & Information System Lab	CSL603L– Data Warehouse and mining lab
CSL504L – Web Technologies Laboratory	CSL604L– System Security Lab
CSL505 – Business Communication and Ethics	CSL605L– Mini-Project
Department Level Optional Course I	Department Level Optional Course II

CSDLO5011 – Multimedia Systems Design	CSDL 6021 – Machine Learning
CSDLO 5012 – Advanced Algorithms	CSDLO 6022 – Advanced Databases
CSDLO 5013 – Advanced Operating Systems	CSDLO 6023 – Enterprise Resource Planning
	CSDLO 6024: Advance Computer Network
Final Year	
Sem VII	Sem VIII
CSC701 – Digital Signal and Image Processing	CSC801 – Human Machine Interaction
CSC702 – Mobile Communication and Computing	CSC802 – Distributed Computing
CSC703– Artificial Intelligence and Soft Computing	CSL801 Human Machine Interaction -Lab
CSL701– Digital Signal and Image Processing -Lab	CSL802 – Distributed Computing-Lab
CSL702– Mobile App Development	CSL803 – Cloud Computing Laboratory
CSL703– Artificial Intelligence and Soft Computing Lab	CSL804 – Computational-Lab
CSL704– Computation-Lab	CSP805 – Major Project-II
CSP705– Major Project-I	
Department Level Optional Course I	Department Level Optional Course II
CSDLO7031 – Advance System Security & Digital Forensics	DLO8011 – High Performance Computing
CSDLO7032 – Big Data & Analytics	DLO8012 – Natural Language Processing

CSDLO7033: Robotics	DLO8013 – Adhoc Wireless Network
Institute Level Optional Course - I	Institute Level Optional Course - II
ILO7011 – Product Lifecycle Management	ILO8021 – Project Management
ILO7012 – Reliability Engineering	ILO8022 – Finance Management
ILO7013 – Management Information	ILO8023 – Entrepreneurship Development and Management
ILO7014 – Design of Experiments	ILO8024 – Human Resource Management
ILO7015 – Operation Research	ILO8025 – Professional Ethics and CSR
ILO7016 – Cyber Security and Laws	ILO8026 – Research Methodology
ILO7017 – Disaster Management & Mitigation Measures	ILO8027 – IPR and Patenting
ILO7018 – Energy Audit and Management	ILO8028 – Digital Business Management
ILO7019 – Development Engineering	ILO8029 – Environmental Management