

Modified E1 (R14) Curriculum for Dept. of Computer Science and Engineering (RKV Campus)

E1 Sem1

Name of the Course	Credits
Introduction to Computer Science-I(Equivalent to Programming with C)	4
Discrete Mathematics	4
IT Workshop	4
Network Analysis	4
Engineering Mathematics(Equivalent to Maths -1)	4
Introduction to Computer Science-I Lab(Equivalent to Programming with C Lab)	2
IT Workshop Lab	2
Managerial Economics	4
Total Credits	28

E1 Sem2

Name of the Course	Credits
Formal Languages and Automata Theory	4
Digital Logic and Design	4
Data Structures	4
Probability and Statistics	4
Introduction to Social Networking	2
Digital Logic and Design Lab	2
Advanced English-I Lab	2
Data Structures Lab	2
Total Credits	24

E1 Summer Sem

Name of the Course	Credits
Computer Organization	4
Computer Organization Lab	2
Total Credits	6

E2 Sem1

Name of the Course	Credits
Design and Analysis of Algorithm	4
OOPS	4
Operating System	4
DBMS	4
Data Analytics	2
Advanced English-II Lab	2
OOPS Lab	2
Operating System Lab	2
DBMS Lab	2
Total Credits	26

E2 Sem2

Name of the Course	Credits
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Software Engineering	4
Computer Networks	4
Mobile Application Development	4
Cloud Computing	2
Introduction to Robotics	2
Artificial Intelligence	2
Advanced English-III Lab	2
Software Engineering Lab	2
Computer Networks Lab	2
Mobile Application Development Lab	2
Total Credits	26
E2 Summer Sem	
Name of the Course	Credits
Placement Skills	2
Networking Technologies	4
Total Credits	6
E3 Sem1	
Name of the Course	Credits
Elective	4
Elective	4
Elective	4
Free Elective	4
Mini Project	4
Total Credits	20
E3 Sem2	
Name of the Course	Credits
Elective	4
Elective	4
Elective	4
Free Elective	4
Mini Project	4
Total Credits	20
E3 Summer Sem	
Name of the Course	Credits
Summer Internship	4
Total Credits	4
E4 Sem1	
Name of the Course	Credits
Elective	4
Elective	4
Free Elective	4
Project	6
Total Credits	18
E4 Sem2	

Name of the Course	Credits
Elective	4
Elective	4
Free Elective	4
Project	6
Community Service	2
Total Credits	20
Grand Total Credits	198

List of Electives during E3 & E4 Semesters	
Name of the Course	Credits
Information Security	4
Data Mining	4
Compiler Design	4
Internet of Things	4
Embedded Systems	4
Managerial Economics	4
Unix & Shell Programming	4
Advance Cloud Computing	4
Scripting Languages	4
Advanced Alogorithms	4
Linux Internals	4
Big Data Analytics	4
Hadoop & Map reducing	4
Software Project Management	4
Environmental Studies	4
Advanced Computer Architecture	4
Information Retrieval System	4
Software Engineering as Service	4
Parallel Algorithms	4
Distributed Computing	4
Pattern Recognition & Application	4
Optimization Techniques	4
Applied Graph Theory	4
Human Computer Interaction	4
Software Testing	4
Computer Vision	4
High Performance Computing	4
Machine Learning	4
Cryptography & Network Security	4
Artificial Neural Networks	4
Game Design and Development	4
Computer Graphics & Multimedia,	4

Natural Language Processing,	4
Organizational Behaviour and Management	4
Web & Social Technologies	4
High Speed Networks	4
Performance Evaluation of Computer Systems	4
Introduction to Reverse Engineering Software	4
Storage Systems	4
Software Reliability Engineering	4
Real Time Operating System	4
Object Oriented Analysis & Design	4
Real Time Systems	4
Software Architecture & Design Patterns	4
Service Oriented Architecture	4
Programming for Everybody using Python	4