

**THIAGARAJAR COLLEGE OF ENGINEERING**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**PERCENTAGE OF REVISION OF B.E. COMPUTER SCIENCE AND ENIGNEERING CURRICULUM 2014-2015**

Curriculum 2013-2014						Curriculum 2014-2015		
Sl. No.	Course Code	Course Name	Change Details	% of Change	weightage	Course Code	Course Name	Year of Introduction
1	H11	Engineering Mathematics – 1		10	0.1	14MA110	Engineering Mathematics - I	2014
2	H12	Physics		10	0.1	14PH120	Physics	2014
3	H13	Chemistry		10	0.1	14CH130	Chemistry	2014
4	H14	English		10	0.1	14EG140	English	2014
5	H15	Basics of Civil and Mechanical Engineering		10	0.1	14ES150	Basics of Civil and Mechanical Engineering	2014
6	H16	Basics of Electrical and Electronics Engineering		10	0.1	14ES160	Basics of Electrical and Electronics Engineering	2014
7	H17	Physics Lab		10	0.1	14PH180	Physics Lab	2014
8	H18	Chemistry Lab		10	0.1	14CH190	Chemistry Lab	2014
9	H19	Engineering Graphics		10	0.1	14ME170	Engineering Graphics	2014
10	C21	Engineering Mathematics - II		50	0.5	14CS210	Engineering Mathematics - II	2014
11	C22	Digital Systems		20	0.2	14CS230	Digital Circuits	2014
12	C23	Computer Organization		40	0.4	14CS240	Computer Organization and Microprocessors	2014
13	C24,C28	Procedural Programming, Procedural Programming Lab		70	0.7	14CS270	Problem Solving using Computers	2014
14	C25	Data Structures,		50	0.5	14CS350	Data Structures and	2014

							Algorithms	
15	C27	Data Structures Lab		30	0.3	14CS380	Data Structures Lab	2014
16	C26	Environment and Ecology		30	0.3	14CS250	Environment Science	2014
17	C29	Workshop		100	1	14CS290	Workshop	2014
18	C31	Engineering Mathematics - III		50	0.5	14CS310	Probability and Statistics	2014
19	C32	Graphics and Visualization		40	0.4	14CS330	Computer Graphics	2014
20	C33	System Software		50	0.5	14CS420	System Software and Operating Systems	2014
21	C34,C44	Operating Systems: Use and Configuration, Operating Systems:Principles and Design						
22	C37	OS and System Software Lab		20	0.2	14CS480	System Software and Operating Systems Lab	2014
23	C36,C38	Object Oriented Programming, Object Oriented Programming Lab		50	0.5	14CS370	Object Oriented Programming	2014
24	C35	Design and Analysis of Algorithms		40	0.4	14CS430	Design and Analysis of Algorithms	2014
25	C41	Discrete Mathematics		40	0.4	14CS410	Discrete Mathematics and Combinatorics	2016
26	C42,C54	Computer Networks:Use & Configuration Computer Networks:Principles		70	0.7	14CS521	Computer Networks	2016

27	C43	Principles of Compiler Design		30	0.3	14CS630	Compilers	2014
28	C45	Software Engineering		40	0.4	14CS570	Software Engineering:Theory and Practice	2014
29	C46,C52	Databases:Practice, Databases:Principles and Design		40	0.4	14CS440	Database Management Systems	2014
30	C47	Network Programming Lab		30	0.3	14CS590	Network Programming Lab	2014
31	C48	Databases Lab		30	0.3	14CS580	Databases Lab	2014
32	C49	Professional Communications		30	0.3	14CS470	Professional Communication	2016
33	C51	Statistics and Graph Theory		40	0.4	14CS310	Probability and Statistics	2014
34	C53	Multicore Architectures	dropped					
35	C55,C57	Web Programming, Web Programming Lab		40	0.4	14CS620	Internet Programming	2014
36	C56	Software Design	dropped					
37	C58	Software Design Lab	dropped					
38	C61	Management Theory & Practice		100	1	14CS610	Project Management	2014
39	C62	Theory of Formal Languages		40	0.4	14CS530	Theory of Computation	2014
40	C63,C68	Software Verification & Validataion, Software Testing Lab		50	0.5	14CS670	Software Verification and Validation	2014
41	C64	Cryptography		40	0.4	14CSPA0	Cryptography and Network	2015

							Security	
42	C67	Cryptography Lab	dropped					
43	C71	Software Project and Quality Management	dropped					
44	C72	Accounting and Finance		30	0.3	14CS710	Accounting and Finance	2015
45	C78	Project	dropped					
46	CCA	Numerical Methods and Number Theory		30	0.3	14CS510	Numerical Methods and Number Theory	2014
47	CCB	Information Retrieval		30	0.3	14CSPE0	Information Retrieval	2015
48	CCC,CCL	Data Mining Concepts and Techniques, Datawarehousing		40	0.4	14CSPB0	Data Warehousing and Mining	2015
49	CCD	Agent based Systems	dropped					
50	CCE	Wireless Networks		30	0.3	14CSPC0	Wireless Networks	2015
51	CCF	Grid Computing	dropped					
52	CCG	Modeling and Simulation	dropped					
53	CCH	Parallel Computing		30	0.3	14CSPF0	Parallel Computing	2015
54	CCJ	Service oriented Architecture		30	0.3	14CSPH0	Service oriented Architecture	2015
55	CCK	Software Risk Assessment and Management	dropped					
56	CCM	Enterprise Project Development using FOSS		30	0.3	14CSPD0	Enterprise Project Development using FOSS	2015

57	CCN	Storage Infrastructure Management		30	0.3	14CSPG0	Storage Infrastructure and Management	2015
58	C1A	Rich Internet Applications	dropped					
59	C1B	Advanced Operating Systems	dropped					
60	C1C	Mobile Application Development		30	0.3	14CS1B0	Mobile Application Development	2016
61	C1D	Basics of Application Security		30	0.3	14CS1G0	Basics of Application Security	2016
62	C1E	Cyber Security	dropped					
63	C1F	Green Data Center		30	0.3	14CS1F0	Green Data Center	2016
64	C1G	Introduction to Avionics	dropped					
65	C1H	Introduction to IT Service Management		30	0.3	14CS1E0	Introduction to IT Service Management	2016
66	C1I	Introduction to Mainframe Systems		30	0.3	14CS1A0	Introduction to Mainframe Systems	2016
67	C1J	Practical Approaches to Networking		30	0.3	14CS1C0	Practical Approaches to Networking	2016
68	C1K	Introduction to Microsoft ADDS		40	0.4	14CSPS0	Network Directory Services	2016
69	CGA	Essentials of Information Technology		30	0.3	14CSGD0	Essentials of Information Technology	2016
70	CGB	Software Development	dropped					
71	CGC	Desktop Publishing	dropped					

72	CGD	Fundamentals of Cloud Computing		40	0.4	14CSPM0	Cloud Computing and Virtualization	2016
73	CGE	Web Technologies		20	0.2	14CSGA0	Web Technologies	2016
74	CGF	Object Oriented Design		30	0.3	14CSGE0	Object Oriented Concepts and Design	2016
75	CGG	Essentials of Mobile Application Development		30	0.3	14CSGB0	Essentials of Mobile Application Development	2016
76	CGH	Animation: Theory and Practice		30	0.3	14CSGC0	Animation: Theory and Practice	2016
77								
78			new course	100	1	14CS220	Electronic Devices and Circuits	2014
79			new course	100	1	14CS280	Digital Circuits Lab	2014
80			new course	100	1	14CS320	Theory and Design of Programming Languages	2014
81			new course	100	1	14CS340	Engineering by Design	2014
82			new course	100	1	14CS390	Assembly Language Programming Lab	2014
83			new course	100	1	14CS450	Communication Engineering	2014
84			new course	100	1	14CS490	Computer Graphics Lab	2014
85			new course	100	1	14CS4C0	Capstone Course - I	2016
86			new course	100	1	14CS540	Computer Architecture	2014
87			new course	100	1	14CS690	Engineering Design Lab	2015
88			new course	100	1	14CS720	Artificial Intelligence	2014
89			new course	100	1	14CS780	Artificial Intelligence Lab	2016
90			new course	100	1	14CS730	Distributed Computing	2014
91			new course	100	1	14CS7C0	Capstone Course - II	2016
92			new course	100	1	14CSPJ0	Design and Analysis of Algorithms Lab	2016
93			new course	100	1	14CSPK0	Real Time Operating Systems	2016

94			new course	100	1	14CSPL0	User Interface Design	2016
95			new course	100	1	14CSPN0	Internet of Things and its Applications	2016
96			new course	100	1	14CSPP0	Big Data Analytics	2016
97			new course	100	1	14CSPQ0	Soft Computing Techniques	2016
98			new course	100	1	14CSPR0	Kernel Programming	2016
99			new course	100	1	14CSPT0	Applied Machine Learning	2017
100			new course	100	1	14CSPU0	Virtual Reality	2017
101			new course	100	1	14CSPV0	Design Patterns	2017
102			new course	100	1	14CSGF0	Enterprise Application Development	2016
103			new course	100	1	14CS1D0	Embedded Software Development	2017
104			new course	100	1	14CS1H0	Foundations of NoSQL Database	2016
105			new course	100	1	14CS1J0	Current Practics in Software Engineering	2017
106			new course	100	1	14CS2A0	Multicore Interconnects : Theory and Practice	2016
107			new course	100	1	14CS2B0	Data Analytics using R and Python	2017
108			new course	100	1	14MAFA0	Graph Theory	2016
109			new course	100	1	14MAFB0	Fuzzy Sets and Clustering	2016
110			new course	100	1	14MAFC0	Number Theory	2016
111			new course	100	1	14MAFD0	Mathematical Aptitude Methods	2017
112			new course	100	1	14MAFE0	Mathematical Techniques	2016
113			new course	100	1	14PHFA0	Smart Materials for Engineers	2016
114			new course	100	1	14PHFB0	Thin Film Technology	2016
115			new course	100	1	14PHFC0	Nanotechnology	2016

116			new course	100	1	14PHFD0	Quantum Computing	2017
117			new course	100	1	14CHFA1	Biology for Engineers	2016
118			new course	100	1	14CHFBO	Chemistry of Engineering Materials	2016
119			new course	100	1	14CHFC0	Battery Technologies	2016
120			new course	100	1	14CHFD0	Corrosion Science and Engineering	2017
				<b>Total Weightage</b>	<b>63.3</b>			
				Total Number of Courses	85			
				<b>Total Change in %</b>	<b>74.5</b>			