

CVR COLLEGE OF ENGINEERING

Autonomous

CSE COURSE STRUCTURE 2012-13 – B.Tech. II, III, IV Year

Admission Year:2012-13

With effect from 2013-14

Second Year B.Tech. CSE				
1st Semester Course Structure				
Subject Reference No.	Subject	L	T / P / D	C
12MT201CV	Probability and Statistics	3	1	3
12CS201CV	Discrete Structures and Graph Theory	3	0	3
12CS202CV	Data Structures Through C++	4	1	4
12CS203CV	Unix and Shell Programming	3	1	3
12EC201CV	Electronic Devices and Circuits	4	1	4
12EC204CV	Digital Logic Design	3	1	3
12CS231CV	Unix Programming Lab. / Data Structures Through C++	-	3	2
12EE232CV	Electrical and Electronics Engineering Lab.	-	3	2
12EG231CV	Verbal Ability Lab.	-	2	1
Total		20	13	25
Total hours		33		

II Year Service Courses					
1st Semester					
Subject Reference No.	Subject	Year & Branch	L	T / P / D	C
12CS202CV	Data Structures Through C++	2-1 IT	4	1	4
12CS203CV	Unix and Shell Programming	2-1 IT	3	1	3
12CS231CV	Unix Programming Lab. / Data Structures Through C++	2-1 IT	-	3	2

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Second Year B.Tech. CSE				
2nd Semester Course Structure				
Subject Reference No.	Subject	L	T / P / D	
12CS251CV	Computer Organization	3	1	3
12CS252CV	Data Base Management Systems	4	-	4
12CS253CV	Object Oriented Programming	4	-	4
12CS254CV	Operating Systems	3	2	3
12CS255CV	Design and Analysis of Algorithms	3	1	3
12ES251CV	Environmental Studies	3	-	3
12CS281CV	Object Oriented Programming Lab.	-	3	2
12CS282CV	Data Base Management Systems Lab.	-	3	2
12EG281CV	Reasoning and Logic Lab.	-	2	1
Total		20	12	25
Total hours		32		

II Year Service Courses					
2nd Semester					
Subject Reference No.	Subject	Year & Branch	L	T / P / D	C
12CS251CV	Computer Organization	2-2 IT	3	1	3
12CS252CV	Data Base Management Systems	2-2 IT	4	-	4
12CS253CV	Object Oriented Programming	2-2 IT	4	-	4
12CS254CV	Operating Systems	2-2 IT	3	2	3
12CS281CV	Object Oriented Programming Lab.	2-2 IT	-	3	2
12CS282CV	Data Base Management Systems Lab.	2-2 IT	-	3	2

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With effect from 2014-15

Third Year B.Tech. CSE				
1st Semester Course Structure				
Subject Reference No.	Subject	L	T / P / D	C
12CS301CV	Principles of Programming Languages	3	1	3
12CS303CV	Data Communication and Computer Networks	3	1	3
12CS304CV	Formal Languages and Automata Theory	3	1	3
12IT301CV	Software Engineering	4	-	4
12IT302CV	Object Oriented Analysis and Design	4	-	4
12MG301CV	Managerial Economics and Financial Analysis	3	1	3
12CS331CV	Computer Networks/Case Tools Lab.	-	3	2
12EG331CV	Advanced English Communication & Soft Skills Lab.	-	3	2
12MT331CV	Data interpretation Lab.	-	2	1
Total		20	12	25
Total hours		32		

III Year Service Courses					
1st Semester					
Subject Reference No.	Subject	Year & Branch	L	T / P / D	C
12CS301CV	Principles of Programming Languages	3-1 IT	3	1	3
12CS302CV	Computer Graphics	3-1 IT	3	1	3

12CS306CV	Design and Analysis of Algorithms	3-1 IT	3	1	3
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Third Year B.Tech. CSE					
2nd Semester Course Structure					
Subject Reference No.	Subject	L	T / P / D	C	
12CS351CV	Compiler Design	3	1	3	
12CS352CV	Network Security	3	1	3	
12CS353CV	Computer Graphics	3	1	3	
12IT351CV	Web Technologies	4	0	4	
	Elective-I				
12CS354CV 12CS355CV 12CS356CV	Advanced Computer Architecture Wireless Networks and Mobile Computing Image Processing And Pattern Recognition	3	1	3	
12EC353CV	Micro Processors & Micro Controllers	4	-	4	
12IT383CV	Web Technologies Lab.	-	3	2	
12EC381CV	Micro Processors & Micro Controllers Lab.	-	3	2	
12MT381CV	Quantitative Ability Lab.	0	2	1	
Total		20	12	25	
Total hours		32			

III Year Service Courses					
2nd Semester					
Subject Reference No.	Subject	Year & Branch	L	T / P / D	C
12CS355CV	Wireless Networks and Mobile Computing	3-2 IT	3	1	3
12CS356CV	Image Processing and Pattern Recognition	3-2 IT	3	1	3
12CS357CV	Automata and Compiler Design	3-2 IT	3	1	3
12CS358CV	Linux Programming	3-2 IT	4	0	4
12CS359CV	Computer Networks	3-2 IT/ECE	3	1	3
12CS35ACV	Object Oriented Programming through Java	3-2 ECE	3	1	3

12CS381CV	Embedded Systems & Computer Networks Lab.	3-2 IT	-	3	2
12CS35ECV	Artificial Neural Networks	3-2 MECH	3	1	3
12CS35FCV	Computer Architecture	3-2 EEE	3	1	3
12CS35HCV	Computer Organization	3-2 ECE	3	1	3
12IT381CV	Web Technologies & Linux Programming Lab.	3-2 IT	-	3	2
12CS35BCV	Operating Systems	3.2 ECE			
12CS381CV	Embedded Systems & Computer Networks Lab.	3-2 IT	-	3	2

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With effect from 2015-16

Fourth Year B.Tech. CSE				
1st Semester Course Structure				
Subject Reference No.	Subject	L	T / P / D	C
12CS401CV	Linux Programming	3	1	3
12CS402CV	Datamining and Business analytics	3	1	3
12IT401CV	Software Testing Methodologies	3	1	3
12IT403CV	Mobile Application Development Using Android	4	1	4
Interdisciplinary Elective				
12EC40ACV 12MT401CV 12CE/ME401CV	Principles of VLSI Design Operations Research Elements of Civil and Mechanical Engineering	3	1	3
Elective - II				
12CS403CV 12CS404CV 12CS405CV	Design Patterns Distributed Computing Scripting Languages	3	1	3
12CS431CV	Linux Programming / Data Mining lab.	-	3	2
12IT434CV	Software Testing & Mobile Application Development	-	3	2

	Using Android Lab.			
12CS432CV	Industry Oriented Mini Project	-	-	2
Total		19	12	25
Total hours		31		

IV Year Service Courses

1st Semester

Subject Reference No.	Subject	Year & Branch	L	T / P / D	C
12CS402CV	Datamining and Business analytics	4-1 IT	3	1	3
12CS405CV	Scripting Languages	4-1 IT	3	1	3
12CS408CV	Advanced Computer Architecture	4-1 ECE	3	1	3
12CS409CV	Artificial Neural Networks	4-1 ECE	3	1	3
12CS40DCV	Network Security	4-1 IT/ ECE	3	1	3
12CS40ECV	Object Oriented Programming using C++	4-1 EEE/EIE/ MECH/ CIVIL	3	1	3
12CS40FCV	Database Management Systems	4-1 EEE/CIVIL /MECH	3	1	3
12CS40ACV	Object Oriented Programming Through Java	4-1 EIE/ECE	3	1	3

Fourth Year B.Tech. CSE

2nd Semester Course Structure

Subject Reference No.	Subject	L	T / P / D	C
12MG451CV	Management Science	3	-	3
	Elective : III			
12IT451CV 12IT452CV 12IT457CV	Web Services E- Commerce Cloud Computing	3	1	3

Elective : IV				
12CS451CV	Adhoc and Sensor Networks	3	1	3
12CS452CV	Database Security			
12IT455CV	Embedded Systems Design			
12CS481CV	Seminar	-	6	2
12CS482CV	Comprehensive Viva	-	-	2
12CS483CV	Project Work	-	15	10
Total		9	23	23
Total hours		32		

IV Year Service Courses					
2nd Semester					
Subject Reference No.	Subject	Year & Branch	L	T / P / D	C
12CS451CV	Adhoc and Sensor Networks	4-2 IT	3	1	3
12CS453CV	Design Patterns	4-2 IT	3	1	3
12CS459CV	Artificial Neural Networks	4-2 EIE	3	1	3
12CS45FCV	Advanced Computer Architecture	4-2 EEE	3	1	3