

CMR INSTITUTE OF TECHNOLOGY

COMPARISON

Bachelor of Engineering in COMPUTER SCIENCE and INFORMATION SCIENCE

SEM	CSE	SEM	ISE	COMPARISON
I / II	Computer concepts & Programming	I / II	Computer Concepts & Programming	Common to all branches
	Computer concepts & Programming Lab		Computer Concepts & Programming Lab	
III	Engg. Mathematics - III	III	Engg. Mathematics - III	Common to both CSE & ISE Branch
	Electronic Circuits		Electronic Circuits	
	Logic Design		Logic Design	
	Discrete Mathematical		Discrete Mathematical	
	Data Structures with C		Data Structures with C	
	Object Oriented Programming with C++		Unix and Shell Programming	
	Data Structures with C/C++ Lab		Data Structures Lab	
	Electronic Circuits & Logic Design Lab		Electronic Circuits & Logic Design Lab	
IV	Engg. Mathamatics - IV	IV	Engg. Mathamatics - IV	Common to both CSE & ISE Branch
	Graph Theory and Combinatorics		Graph Theory and Combinatorics	
	Design and Analysis of Algorithms		Analysis and Design of Algorithms	
	UNIX and Shell Programming		Object Oriented Programming with C++	
	Microprocessors		Microprocessors	
	Computer Organization		Computer Organization	
	Design and Analysis of Algorithms Lab		Algorithms Lab	
	Microprocessors Lab		Microprocessors Lab	
	Software Engineering		Software Engineering	
	Systems Software		Systems Software	

V	Operation Systems	V	Operation Systems	Common to both CSE & ISE Branch
	Database Management Systems		Database Management Systems	
	Computer Networks - 1		Computer Networks - 1	
	Formal languages and Automata Theory		Formal languages and Automata Theory	
	Database Applications laboratory		Database Applications laboratory	
	System Software & OS Laboratory		System Software & OS Laboratory	

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CSE		ISE		COMPARISON
SEM	SUBJECTS	SEM	SUBJECTS	
VI	Unix systems Programming	VI	Unix systems Programming	2 Theory subjects & 2 labs are different between ISE & CSE
	Compiler Design		<u>File Structures*</u>	
	Computer networks - II		Computer networks - II	
	Computer Graphics & Visualization		<u>Software Testing *</u>	
	Elective: Operation Research #		Elective: Operation Research #	
	Computer Graphics and Visualization Lab		<u>File Structures Laboratory*</u>	
	Unix System Programming & Compiler Design Lab		<u>Software Testing Lab</u>	
VII	Object - Oriented Modeling and Design	VII	Object - Oriented Modeling and Design	2 Subjects are different between CSE & ISE Branch
	Embedded Computing Systems		<u>Information Systems *</u>	
	Programming the Web		Programming the Web	
	Advanced Computer Architecture		<u>Data warehousing & Data Mining*</u>	
	Elective II (Group-B) # JAVA & J2EE		Elective II (Group-B) # JAVA & J2EE	

	Elective II (Group-C) # C# Programming & Net		Elective II (Group-C) # C# Programming & Net	
	Networks Laboratory		Networks Laboratory	
	Web Programming Laboratory		Web Programming Laboratory	
VIII	Software Architecture	VIII	Software Architecture	Electives offered are different in CSE & ISE.
	System Modeling and simulation		System Modeling and simulation	
	Elective IV (Group-D) WEB 2.0 and Rich Internet Applications Network Management Systems		Elective IV (Group-D) WEB 2.0 and Rich Internet Applications Information & Network Security	
	Elective V (Group - E) Adhoc Networks Software Testing		Elective V (Group - E) Adhoc Networks Clouds, Grids & Clusters	
	Project Work		Project Work	

Comparison:

- 1) I Sem & II Sem - CCP is common to all the branches including ISE & CSE
- 2) III, IV & V Sem are common to ISE & CSE Branch
- 3) VI Sem - Two theory subjects & 2 Labs are different to CSE & ISE.
Elective list is common & selection of elective is done based on student options and faculty availability (Marked*)
- 4) VII Sem - Two subjects differs between ISE & CSE
Elective list is common & selection of elective is done based on student options and faculty availability (Marked*)
- 5) VIII Sem - Differs in electives being offered.
- 6) Project work can be done either inhouse or in the industry. Project will be completed batch wise.
- 7) Seminar topics shall be selected from the emerging technical areas only.