

## 2018 - 2019 Odd Semester

S.No	class	Subject	Hours
1.	II BCA	Data Structure - U1CAC32	4
2.	II BCA	Data Structure Lab - U3CAS3P	3
3.	III BCA	Relational Database Management Lab - U2CAC5PI	6
4.	III MCA	Cryptography & Network Security - PILCC31	5
5.	III MCA	Software Development Lab - PILCC3PI	2
Total			20

S.No	Date	Say order	Class	Hour	Topics	Remark
1.	18.6.18	<u>I</u>	<u>III</u> MCA	10-1	<ul style="list-style-type: none"> <li>* Give the Syllabus for Cryptography and Network Security.</li> <li>* Introduction to Cryptography</li> </ul>	
2.	19.6.18	<u>II</u>	<u>III</u> MCA	12-1	<ul style="list-style-type: none"> <li>* Security Goals</li> <li>* Cryptanalytic Attacks</li> </ul>	
			<u>II</u> BCA	2-4	<ul style="list-style-type: none"> <li>* Data structure Lab</li> <li>→ Exchange Sort</li> </ul>	
3.	20.6.18	<u>III</u>	<u>III</u> BCA	10-1	<ul style="list-style-type: none"> <li>* DBMS Lab</li> <li>→ Create, desc, insert, delete, Select Commands.</li> </ul>	
			<u>II</u> BCA	2-3	<ul style="list-style-type: none"> <li>* Give the Syllabus for Data Structure.</li> <li>* System Life cycle</li> </ul>	
4.	21.6.18	<u>IV</u>	<u>II</u> BCA	10-11	<ul style="list-style-type: none"> <li>* Algorithm Specification</li> </ul>	
			<u>III</u> MCA	2-3	<ul style="list-style-type: none"> <li>* Services and Mechanism</li> <li>* Techniques</li> </ul>	
5.	22.6.18	<u>V</u>	<u>III</u> BCA	10-1	<ul style="list-style-type: none"> <li>* DBMS Lab</li> <li>→ DDL Constraints</li> <li>* Not Null</li> <li>* Unique</li> <li>* Primary Key</li> <li>* Default</li> <li>* Check</li> </ul>	
6.	25.6.18	<u>VI</u>	<u>II</u> BCA	12-1	<ul style="list-style-type: none"> <li>* Performance Analysis</li> <li>- Space Complexity</li> </ul>	
			<u>II</u> BCA	2-3	<ul style="list-style-type: none"> <li>* Time Complexity</li> </ul>	
			<u>III</u> MCA	3-4	<ul style="list-style-type: none"> <li>* Traditional Symmetric Key ciphers</li> <li>→ Introduction</li> <li>→ Cryptanalysis</li> </ul>	

S.No	Date	Day order	Class	Hour	Topics	Remark
7.	26.6.18	I	III MCA	10-11	* Substitution ciphers ↳ Monoalphabetic ciphers ↳ Additive cipher ↳ Multiplicative cipher ↳ Affine cipher	
			III MCA	2-4	* Software Development Lab ↳ Project title and module Discussion	
8.	27.6.18	II	III MCA	12-1	* Polyalphabetic ciphers - Autokey cipher - Playfair cipher - Vigenere cipher - Vigenere Tableau	
			II BCA	2-5	* Data Structure Lab - Selection Sort - Linear Search - Binary Search	
9.	28.6.18	III	III BCA	10-1	* RDBMS Lab - DDL Commands	
			II BCA	2-3	* Arrays - Arrays in C - One dimensional Arrays - Two dimensional Arrays	
10.	29.6.18	IV	II BCA	10-11	* Polynomials - Representation - Addition * Sparse Matrices - Representation - Transposing a matrix - Matrix multiplication * Introduction to Stack	

S.No	Date	Day order	Class	Hour	Topics	Remark
			<u>III</u> MCA	2-3	<ul style="list-style-type: none"> <li>* Hill cipher</li> <li>* One-Time Pad</li> <li>* Rotor cipher</li> <li>* Enigma Machine</li> <li>* Transposition ciphers               <ul style="list-style-type: none"> <li>- Keyless transposition ciphers</li> </ul> </li> </ul>	
11.	30.6.18	<u>V</u>	<u>III</u> BCA	10-1	<ul style="list-style-type: none"> <li>* RDBMS Lab               <ul style="list-style-type: none"> <li>- DML Commands</li> <li>- TCL Commands</li> </ul> </li> </ul>	
			<u>III</u> MCA	2-3	<ul style="list-style-type: none"> <li>* Keyed Transposition ciphers</li> <li>* Combining Two approaches</li> <li>* Double Transposition ciphers</li> <li>* Stream and block ciphers</li> </ul>	
12.	2.7.18	<u>VI</u>	<u>II</u> BCA	12-1	<ul style="list-style-type: none"> <li>* Stack operations</li> <li>* Implementation of Stack using arrays.</li> </ul>	
			<u>III</u> MCA	2-3	<ul style="list-style-type: none"> <li>* Introduction to Modern Symmetric-Key ciphers               <ul style="list-style-type: none"> <li>- Modern Block ciphers</li> <li>- Components of modern block ciphers. (S-box, D-box)</li> </ul> </li> </ul>	
			<u>II</u> BCA	4-5	<ul style="list-style-type: none"> <li>* Introduction to Queue               <ul style="list-style-type: none"> <li>- Queue operations</li> </ul> </li> </ul>	
13.	3.7.18	<u>I</u>	<u>III</u> MCA	10-11	<ul style="list-style-type: none"> <li>* Circular Shift</li> <li>* Swap</li> <li>* Split and Combine</li> <li>* Product ciphers               <ul style="list-style-type: none"> <li>- Diffusion &amp; Confusion</li> <li>- Rounds</li> </ul> </li> </ul>	

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			III MCA	2-4	* Software Development Lab - Project Note verification	
14.	4.7.18	II	III MCA	12-1	* Two Classes of Product Ciphers - Feistel Ciphers - Non Feistel Ciphers	
			II BCA	2-5	* Data structure Lab - Employee details using Structure - Insertion sorting	
15.	5.7.18	III	III BCA	10-1	* RDBMS Lab - PL/SQL Program	
			II BCA	2-3	* Implementation of Queue using Arrays.	
16.	6.7.18	IV	II BCA	10-11	* Class test : Stack	
			III MCA	2-3	* Modern Stream Ciphers - Synchronous Stream Ciphers - Nonsynchronous Stream Ciphers	
17.	9.7.18	V	III BCA	10-1	* RDBMS Lab - Biggest among 3 nos. - Sum of even numbers - Factorial calculation	
			III MCA	2-3	* Data Encryption Standard (DES) - Introduction - DES structure	

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19/07/2018