

**Napaam – 784028 :: Sonitpur - Assam**

Date: 11/03/2021

### Offered Courses (Spring 2021)

M.Tech(CSE) 2 <sup>nd</sup> Semester							
Corse Code	Title	Credit Structure			Credit	Course Type	Course Instructor
		L	T	P			
CS606	Computer Architecture and Parallel Processing	3	0	0	3	Core	NS
CS544	Advanced Programming Lab II	0	1	2	3	Core	SK/SIS
CS545	Seminar	0	2	0	2	Core	
XXXXXX	<b>Elective I</b>				3/4		
XXXXXX	<b>Elective II</b>				3/4		
XXXXXX	<b>Open Elective I</b>	3	0	0	3		
		Total Credits			17/19		
	Choose Elective I from the following list or from MOOCs list given below						
IT610	Advanced Database System	3	0	1	4	Elect	SIS
CS731	Data Mining in Security	4	0	0	4	Elect.	DKB
CO503	Fuzzy Logic and Neural Networks	3	0	0	3	Elect	BB
CS529	Embedded Systems	3	0	1	4	Elect	SN
	Choose Elective II from the following list or from MOOCs list given below						
IT517	Pattern Recognition	3	0	1	4	Elect	SS
CS625	Web Technology	3	0	1	4	Elect	DB
IT509	Data Mining & Data Warehousing	3	0	1	4	Elect	BN
M.Tech(IT) 2 <sup>nd</sup> Semester							
IT610	Advanced Database System	3	0	1	4	Core	SIS
CS545	Seminar	0	2	0	2	Core	
XXXXXX	<b>Elective 2</b>	3	0	0	3/4		
XXXXXX	<b>Elective 3</b>	3	0	0	3/4		
XXXXXX	<b>Elective 4</b>	3	0	0	3/4		
XXXXXX	<b>Open Elective 2</b>				3		
		Total Credits			18/21		
	Choose Elective 2 from following list or from MOOCs list given below						
CS731	Data Mining in Security	4	0	0	4	Elect.	DKB
CO503	Fuzzy Logic and Neural Networks	3	0	0	3	Elect	BB
CS529	Embedded Systems	3	0	1	4	Elect	SN
CS731	Data Mining in Security	4	0	0	4	Elect.	DKB
	Choose Elective 3 from the following list or from MOOCs list given below						
IT517	Pattern Recognition	3	0	1	4	Elect	SS
CS625	Web Technology	3	0	1	4	Elect	DB
	Choose Elective 4 from the following list or from MOOCs list given below						

IT509	Data Mining & Data Warehousing	3	0	1	4	Elect	BN
CS606	Computer Architecture and Parallel Processing	3	0	0	3	Elect	NS
<b>M.Tech.(CSE) 4<sup>th</sup> Semester</b>							
CS641	Term Project II	0	0	16	16	Core	
<b>M.Tech.(IT) 4<sup>th</sup> Semester</b>							
IT605	Term Project II	0	0	0	16	Core	
<b>MCA 2<sup>nd</sup> Semester</b>							
IC361	Accounting and Financial Management	3	0	0	3	Core	
CS413	Database Management Systems	3	0	0	3	Core	SS
CS414	Database Management Systems Lab	0	0	2	2	Core	RCB
CS513	Software Engineering	3	0	0	3	Core	SSS
CS518	Software Engineering Lab	0	0	1	1	Core	SSS
XXXXX	<b>Elective 4</b>				3/4		
XXXXX	<b>Elective 5</b>				3/4		
	<b>Total Credits</b>				<b>18/20</b>		
	<b>Choose Elective 4 from the following list or from MOOCs list given below</b>						
IT509	Data Mining & Data Warehousing	3	0	1	4	Elect	BN
IT517	Pattern Recognition	3	0	1	4	Elect	SS
	<b>Choose Elective 5 from the following list or from MOOCs list given below</b>						
CS625	Web Technology	3	0	1	4	Elect	DB
CS529	Embedded Systems	3	0	1	4	Elect	SN
<b>MCA 4<sup>th</sup> Semester</b>							
CS504	Operating System	2	1	1	4	Core	SKD
CS505	Software Engineering	3	0	1	4	Core	RS
CS507	Computer Networks	3	0	1	4	Core	NM
XXXXX	<b>Elective 6</b>				3/4		
XXXXX	<b>Elective 7</b>				3/4		
XXXXX	<b>Open elective/Elective</b> <b>(3 open electives are to be completed by 5-th semester)</b>				3		
	<b>Total Credits</b>				<b>21/23</b>		
	<b>Choose the elective 6 from the following list or from MOOCs list given below</b>						
CS625	Web Technology	3	0	1	4	Elect	DB
CS529	Embedded Systems	3	0	1	4	Elect	SN
CS532	Compiler Design	3	0	1	4	Elect	US
	<b>Choose the elective 7 from the following list or from MOOCs list given below</b>						
IT517	Pattern Recognition	3	0	1	4	Elect	SS
IT509	Data Mining & Data Warehousing	3	0	1	4	Elect	RS
	<b>In case the 3<sup>rd</sup> elective required choose it from the following group</b>						
CS601	Design and Analysis of Algorithms	3	0	0	3	Elect	AK
IC361	Accounting and Financial Management	3	0	0	3	Elect	
<b>MCA 6<sup>th</sup> Semester</b>							
CS515	Major Project	0	0	0	16	Core	
<b>B.Tech. 4<sup>th</sup> Semester</b>							
BT201	Biology	3	0	0	3	Core	
CO206	Design and Analysis of Algorithms	3	0	1	4	Core	AK

CO214	Computer Architecture and Organization	3	1	0	4	Core	DKS
CO215	Computer Organization Lab	0	0	1	1	Core	SK
CO216	Formal Language & Automata	3	0	0	3	Core	SKS
CO217	Graph Theory	3	0	0	3	Core	AK
CO218	Data Communication	3	0	0	3	Core	SKD
<b>Total Credits</b>					<b>21</b>		
CS201	Data Structure & Operating System ( <b>Non CSE</b> )	2	0	1	3	Core	LBS
<b>B.Tech. 6<sup>th</sup> Semester</b>							
CO314	System Software and Compiler Design	3	0	1	4	Core	US
CO315	Computer Networks	3	0	0	3	Core	NM
CO316	Computer Networks Lab	0	0	1	1	Core	NM
CO317	Project-I (using SE perspective)	0	0	2	2	Core	SIS
IC361	Accounting and Financial Management	3	0	0	3	Core	
	Elective-II	3	0	1	4		
	Open Elective-II	3	0	0	3		
<b>Total Credits</b>					<b>20</b>		
<b>Choose Elective II from the following list or from MOOCs list given below)</b>							
CO423	Web Technology	3	0	1	4	Elect	DB
CO525	Data Mining	3	0	1	4	Elect	RS
CO306	Embedded Systems	3	0	1	4	Elect	SN
<b>B.Tech. 8<sup>th</sup> Semester</b>							
CO482	Project II	0	0	0	12	Core	
XXXXX	<b>CS Elective IV</b>	3	0	0	3	Core	
XXXXX	<b>Open Elective III</b>	3	0	0	3		
<b>Total Credits</b>					<b>18</b>		
<b>Choose CS Elective IV from the list below or from MOOCs</b>							
CO503	Fuzzy Logic and Neural Networks	3	0	0	3	Elect	BB
CO505	Advanced Database System	3	0	0	3	Elect	SIS
IT517	Pattern Recognition	3	0	1	4	Elect	SS
IT507	Computer Security & Cryptography	3	0	0	3	Elect	DKB
<b>B.Tech 2<sup>nd</sup> Semester</b>							
CO103	Introductory Computing	2	1	0	3	Core	US/NS/SP/ SSS/SK
CO104	Computing Laboratory	0	0	2	2	Core	BN/LBS/MD/ RCB/RCB
CO105	Discrete Mathematics	3	1	0	4	Core	SP
<b>Ph.D</b>							
CS731	Data Mining in Security	4	0	0	4	Elect.	DKB
IT517	Pattern Recognition	3	0	1	4	Elect	SS
CO503	Fuzzy Logic and Neural Networks	3	0	0	3	Elect	BB
CS606	Computer Architecture and Parallel Processing	3	0	0	3	Elect	NS
<b>OPEN ELECTIVES/CBCT(For other departments)</b>							
CS535	Introduction to Scientific Computing	2	0	1	3	OE	MD/RCB
CO503	Fuzzy Logic and Neural Networks	3	0	0	3	OE	BB

IT507	Computer Security & Cryptography	3	0	0	3	OE	DKB
<b>MOOCs Course (Elective)</b> <b>(Maximum allowed is 20% of total credits)</b>							
CS652	Privacy and Security in Online Social Media	2	0	0	2		
CS653	Introduction to Internet of Things	3	0	0	3		
CS654	Programming, data structures and algorithms using Python	2	0	0	2		
CS657	Cloud Computing	2	0	0	2		
CS658	Social Networks	3	0	0	3		
CS660	Programming in Java	3	0	0	3		
CS661	Data Science for Engineering	2	0	0	2		
CS665	AI: Knowledge Representation and Reasoning	3	0	0	3		
CS666	Embedded System Design with ARM	2	0	0	2		
CS667	Introduction to Soft Computing	2	0	0	2		
CS669	Introduction to Industry 4.0 and Industrial Internet of Things	3	0	0	3		
CS 670	Deep Learning	3	0	0	3		
CS 671	Reinforcement Learning	3	0	0	3		
CS 677	Introduction to Machine Learning	3	0	0	3		
CS681	Cloud Computing and Distributed Systems	3	0	0	2		
CS683	Data Analytics with Python	3	0	0	3		
CS684	Cloud Computing and Distributed Systems	2	0	0	2		

(B. Borah)  
Head, CSE