

Name of the Programme: B. Tech. Information Technology, Computer Engineering, Computer Science, Electronics and Telecommunication Engineering, Mechatronics Engineering, Data Science, Computer Science and Engineering - Cyber Security

Year of the Programme: First Year

Semester: I & II

Sr. No.	Module/Subject Code	Name of the Module	Area/Discipline	Theory Hours per week	Practicals Hours per week	Tutorials Hours per week	Total no. of hours for the subject (in term)	Duration of Examination (Hrs)			Examination Scheme (Weightage)					Category	GR applicable (Yes/No)	Remark	AC Date and Page No.					
								Term End Examination	Only ICA	Mode of Exam	Distribution of TCA Marks		Total Marks	Scale d to Marks (Marks on Paper)	Scale d to Marks (Marks in TEE)					Scaled Marks (ICA+ TEE)	Weight age %	Templ ate Codes		
											Test I	Test II											Term work*	
Semester - I																								
1	702BSKC001	Calculus	BSH-Mathematics	3	0	1	60	4	3	Written	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	19-02-2021, 961,962	
2	702BSKC002	Physics	BSH-Physics	3	2	0	75	4	3	Written	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	19-02-2021, 961,962	
3	702BSKC049	Elements of Biology	BSH-Biology	3	0	0	45	3	3	Written	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	08-10-2021, 961,962	
4	702COXC001	Programming for Problem Solving	Computer Engineering	2	2	0	60	3	3	Written	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	19-02-2021, 961,962	
5	702MEC001	Engineering Graphics and Design	Mechanical Engineering	2	2	0	60	3	3	Practical	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	19-02-2021, 961,962	
6	702BSKC005	Professional Ethics	BSH-Other	1	0	0	15	1	-	Only ICA	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	19-02-2021, 961,962	
7	702BSKC006	Constitution of India	BSH-Other	1	0	0	15	0	-	Only ICA	-	-	50	50	50	100	50	100	100	7032	COMP	No	19-02-2021, 961,962	
8	702BSKC007	Critical Thinking	BSH-Other	2	0	0	30	0	-	Only ICA	-	-	50	50	50	100	50	100	100	7032	COMP	No	25-06-2021, 584	
		Total		17	6	1	360	18	15	-	60	60	280	400	400	500	250	650	-	-	-	-	-	-
Semester - II																								
1	702BSKC051	Linear Algebra and Differential Equations	BSH-Mathematics	3	0	1	60	4	3	Written	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	08-10-2021	
2	702BSKC009	Quantum and Statistical Physics	BSH-Physics	2	2	0	60	3	3	Written	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	19-02-2021, 961,962	
3	702BSKC010	English Communication	BSH-English	1	2	1	60	3	3	Written	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	19-02-2021, 961,962	
4	702EXOC001	Basic Electrical and Electronics Engineering	Electronics & Telecommunication	2	2	0	60	3	3	Written	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	19-02-2021, 961,962	
5	702COXC003	Data Structures and Algorithms	Computer Engineering	2	2	0	60	3	3	Written	10	10	30	50	50	100	50	100	100	7031	COMP	Yes	08-10-2021	
6	702BSKC011	Design Thinking	BSH-Other	2	0	0	30	0	-	Only ICA	-	-	50	50	50	100	50	100	100	7032	COMP	No	25-06-2021, 584	
7	702MEC003	Workshop Practice	Mechanical Engineering	0	4	0	60	2	-	Only ICA	-	-	50	50	50	100	50	100	100	7032	COMP	No	19-02-2021, 961,962	
		Total		12	12	2	390	18	15	-	50	50	250	350	350	500	250	600	-	-	-	-	-	-

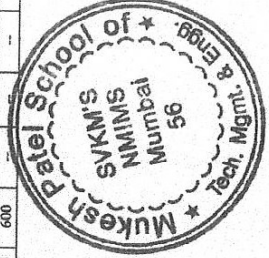
* Term Work = Viva / Presentations / Journals / assignments / quizzes / MCQs / Business plans / Role plans etc.
NUE = Non University Examination (Term End Examination conducted at school level)

Sangitha Nadar / Jayanti Vasudeo
Prepared / Verified by

Date: 27/09/2021

HOD:
Dr. Ajay Shirke

Dean:
Dr. Alka Mahajan



Name of the Programme: B.Tech Computer Science										Semester - III												
Sr. No.	Module / Subject Code	Name of the Module	Area / Discipline	Theory Hours per week	Practicals Hours per week	Tutorials Hours per week	Total no. of hours for the subject (In term)	Credit/s	Duration of Examination (Hrs)	Mode of Exam	Distribution of ICA Marks				Examination Scheme (Weightage)		Template Codes	Category	GR applicable (Yes / No)	Remarks		
											Test I	Test II	Term work	Total Marks	Scaled to (Marks)	Marks on Question Paper					Scaled to (Marks)	Total Scaled Marks (ICA+TEB)
1	702BS0C034	Probability and Statistics	BSH/ Mathematics	3	2	0	75	4	3	Written	10	10	30	50	50	100	100	7031	COMP	Yes		
2	702CI0C004	Environmental Sciences	Civil Engineering	1	0	1	30	2		Written	10	10	30	50	50	100	100	7032	COMP	No		
3	702TM0C010	Management Accounting for Engineers	Technology Management-Finance	2	0	0	30	2	3	Written	10	10	30	50	50	100	100	7031	COMP	Yes		
4	702CO0C021	Digital Logic Design	Computer Engineering	2	2	0	60	3	3	Written	10	10	30	50	50	100	100	7031	COMP	Yes		
5	702TI0C007	Database Management Systems	Information Technology	2	2	0	60	3	3	Written	10	10	30	50	50	100	100	7031	COMP	Yes		
6	702CO0C022	Computer Networks	Computer Engineering	2	2	0	60	3	3	Written	10	10	30	50	50	100	100	7031	COMP	Yes		
7	702CO0C023	Computer Organization and Architecture	Computer Engineering	3	0	0	45	3	3	Written	10	10	30	50	50	100	100	7031	COMP	Yes		
8	702CO0C008	Data Structures	Computer Engineering	3	2	0	75	4	3	Written	10	10	30	50	50	100	100	7031	COMP	Yes		
9	702BS0C005	Professional Ethics	BSH/ Other	1	0	0	15	1		Only ICA	10	10	30	50	50	0	0	7032	COMP	No		
Total											90	90	270	450	450	700	350	800				

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Date: 12/7/2021

[Signature]
 Head, Computer Science Department

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 Dear / Director, MPSTME



Name of the Programme: B Tech Computer Science		Year of the Programme: Second year										Semester - IV				R e m a r k							
Sr. No	Module / Subject Code	Name of the Module	Area / Discipline	Theory Hour per week	Practical Hour per week	Tutorials Hours per week	Total no. of hours for the subject (In term)	Credit/s	Duration of Examination (Hrs)			Mode of Exam			Examination Scheme (Weightage)				GR applicable (Yes / No)	Categor y	Templa te Codes		
									Term End Examination	Only ICA	Written / Practical/Viva /Viva/ Presentation	Test I	Test II	Term work Marks	Scaled Marks (Marks)	Scaled Marks to (Marks)	Marks (Question Paper)	TEE				Scaled Marks (ICA+ TEE)	Total Marks (%)
1	702BS0C036	Integral Transforms	BSij: Mathematics	2	0	1	45	3			Written	10	10	30	50	50	100	100	7031	COMP	Yes		
2	702BS0C047	Discrete Mathematics	BSij: Mathematics	2	0	1	45	3			Written	10	10	30	50	50	100	100	7031	COMP	Yes		
3	702BS0C049	Elements of Biology	BSij: Biology	3	0	0	45	3			Written	10	10	30	50	50	100	100	7031	COMP	Yes		
4	702TG0C001	Principles of Economics and Management	Technology Management-General Management	3	0	0	45	3			Written	10	10	30	50	50	100	100	7031	COMP	Yes		
5	702C0C009	Microprocessor and Microcontroller	Computer Engineering	3	2	0	75	4			Written	10	10	30	50	50	100	100	7031	COMP	Yes		
6	702C0C010	Design and Analysis of Algorithms	Computer Engineering	2	2	0	60	3			Written	10	10	30	50	50	100	100	7031	COMP	Yes		
7	702C0C011	Theoretical Computer Science	Computer Engineering	2	0	1	45	3			Written	10	10	30	50	50	100	100	7031	COMP	Yes		
8	702C0C025	Web Programming	Computer Engineering	2	2	0	60	3			Only ICA	10	10	30	50	50	0	0	7032	COMP	No		
Total				19	6	3	420	25		21		80	80	240	400	400	700	350					

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Date: 6/10/2021

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Name of the Programme: B Tech Computer Science										Year of the Programme: Second year										Semester: V				
Sr. No.	Module / Subject Code	Name of the Module	Theory (Hours per week)	Practicals (Hours per week)	Tutorials (Hours per week)	Total no. of hours for the subject (in term)	Credits	Duration of Examination (Hrs)		Mode of Exam	ICA			Examination Scheme (Weightage)			Total		Template Codes	GR Applicable (yes/No)	Remark			
								Written	Only ICA		Test I	Test II	Term work	Scaled to Marks (Marks)	Total Marks	Scaled to Marks (Marks)	Marks	Weightage %						
1	BTCC05009	Design and Analysis of Algorithms	3	2	0	75	4	3 Hrs	--	Written	10	10	30	50	100	50	100	100	7031	Yes				
2	BTCC06002	Image Processing	3	2	0	75	4	3 Hrs	--	Written	10	10	30	50	100	50	100	100	7031	Yes				
3	BTCC06004	Computer Networks	3	2	0	75	4	3 Hrs	--	Written	10	10	30	50	100	50	100	100	7031	Yes				
4	BTCC05012	Data Mining	3	2	0	75	4	3 Hrs	--	Written	10	10	30	50	100	50	100	100	7031	Yes				
5	MBCO05009	Web Programming	2	2	0	60	3	2 Hrs	--	Practical	10	10	30	50	100	50	100	100	7031	Yes				
6	MBA06107	Management Accounting for Engineers	2	0	0	30	2	3 Hrs	--	Written	10	10	30	50	100	50	100	100	7031	Yes	NUE			
7	MBCI05012	Environmental Studies	2	0	0	30	0	--	Only ICA	--	10	10	30	50	0	0	50	100	7032	No				
Total			18	10	0	420	21				70	70	210	350	550	300	650							

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Date: 12/7/2021

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Sr. No	Module / Subject Code	Name of the Module	Year of the Programme: Second year										Semester: VI						
			Duration of Examination		Mode of Exam	Examination Scheme (Weightage)			TEE			Template Codes	GR Applicable (yes / No)	Remark					
			Written	Only ICA		Test I	Test II	work *	Scaled to Marks	Scaled to Marks (Marks)	Marks				Weightage %	Total			
Theory (Hours per week)	Practicals (Hours per week)	Tutorials (Hours per week)	Total no. of hours for the subject (In term)	Credit /s	Written / Offline/Online/Computer based / Practical/Viva /Tury/ Presentation	Test I	Test II	work *	Scaled to Marks	Scaled to Marks (Marks)	Marks	Weightage %	Total	GR Applicable (yes / No)	Remark				
1	MBCO06003	Artificial Intelligence	3	2	0	75	4	3 Hrs	-	Written	10	10	30	50	100	100	7031	Yes	
2	BTCS06009	Unix Programming	3	2	0	75	4	3 Hrs	-	Written	10	10	30	50	100	100	7031	Yes	
3	BTCS03005	Software Engineering	3	2	0	75	4	3 Hrs	-	Written	10	10	30	50	100	100	7031	Yes	
4	BTCS06007	Programming for Data Analysis	3	0	0	45	3	-	Only ICA	-	10	10	30	50	0	50	7032	No	
5	MBABU5108	Professional Ethics and Legal Aspects	2	0	0	30	2	2 Hrs	-	Written	10	10	30	50	100	100	7031	Yes	
6	MBCO06007	Technical Paper Reading and Writing Skills	0	2	0	30	1	-	Only ICA	-	10	10	30	50	0	50	7032	No	
7		Department Elective-I	3	2	0	75	4	3 Hrs	-	Written	10	10	30	50	100	100	7031	Yes	
			17	10	0	405	22				70	70	210	350	500	250	600		

Code	Subject
MBCO05010	Advanced Computer Networks
BTCS08002	Soft Computing
MBCO05011	Advanced Database Management System
MBCO05017	Advanced Web Programming
MBCO05019	Web Security
BTCS08010	Advanced Image Processing
BTCS06013	Human Computer Interface
BTCS05005	Computer Graphics

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Date: 6/12/2021

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 Deputy Director, MFSTME



Sr. No.	Module / Subject Code	Name of the Module	Area / Discipline	Theory Hours per week	Practicals Hours per week	Tutorials Hours per week	Total no. of hours for the subject (In term)	Credits/s	Duration of Examination (Hrs)	Mode of Exam	Year of the Programme: Fourth year				Semester - VII				Template Codes	Category	GR applicable (Yes / No)	Remarks		
											Distribution of ICA Marks		TEE		Distribution of ICA Marks		TEE							
											Test I	Test II	Term work	Total Marks	Scaled to (Marks)	Scaled to (Marks)	Mark on Question Paper	Mark on (Marks)					Scaled to (ICA+ TEE)	Total Weightage %
1	MBAAB7002	Technical Internship Program	Engineering	0	0	0	0	4	Only ICA	Written / OffLine/On line/Computer based / Practical/Viva /Jury/ Presentation	0	0	100	100	0	0	0	100	100	100	7032	COMP	No	
2	MBCO07010	Project Phase - I	Computer Engineering	0	8	0	120	4	Only ICA	-	0	0	100	100	0	0	0	100	100	100	7032	COMP	No	
3	BTCO06014	Business Visualization	Computer Engineering	2	0	0	30	2	Only ICA	-	10	10	30	50	0	0	0	50	100	100	7032	COMP	No	
4		Department Elective II (Choose Any One)	Computer Engineering	3	2	0	75	4	-	Written	10	10	30	50	100	50	100	100	100	100	7081	ELEC	Yes	
5		Open Elective I (Choose Any One)	Computer Engineering	3	0	0	45	3	-	Written	10	10	30	50	100	50	100	100	100	100	7081	ELEC	Yes	
Total				8	10	0	270	17	6		30	30	290	350	200	100	100	450						

Open Elective I (offered to other)	Code	Subject
MBOECO001	Artificial Intelligence	
MBOECOM01	Machine Learning	

Code	Department Elective II	Subject
BTCO07018	Machine Learning	
BTCO07014	Database Security	
BTCO07015	Fundamentals of Blockchain	
BTCO07016	Software Architecture	
BTCO07017	Computer Vision	
BTCO06010	Information Storage and Management	

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Name of the Programme: B Tech Computer Science		Year of the Programme: Second year										Semester - VIII											
Sr. No.	Module / Subject Code	Name of the Module	Area / Discipline	Theory Hours per week	Practical Hours per week	Tutorials Hours per week	Total no. of hours for the subject (In term)	Credits/s	Duration of Examination (Hrs)		Mode of Exam	Examination Scheme (Weightage)			Template Codes	Category	GR applicable (Yes / No)	Remarks					
									Term End Examination	Only ICA		Test I	Test II	Term work					Scalable to Marks (Marks)	Scalable to Marks (Marks)	Scalable to Marks (Marks)	Scalable to Marks (Marks)	Scalable to Marks (Marks)
1	MBCO08009	Project Phase - II	Computer Engineering	0	12	0	180	6	-	ICA	-	0	0	100	100	0	100	100	7032	COMP	No		
2		Department Elective III (Choose Any One)	Computer Engineering	3	2	0	75	4	3	-	Written	10	10	30	50	100	50	100	7031	ELEC	Yes		
3		Department Elective IV (Choose Any One)	Computer Engineering	3	2	0	75	4	3	-	Written	10	10	30	50	100	50	100	7031	ELEC	Yes		
4		Open Elective II (Choose Any One)	Computer Engineering	3	0	0	45	3	3	-	Written	10	10	30	50	100	50	100	7031	ELEC	Yes		
Total				9	14	0	375	17	9			30	30	190	250	250	300	150	400				

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 # Syllabus common for B Tech (Computer) and MBA(Tech) Computer, can use common question paper.

Code	Subject
MBCO07011	Deep Learning
BTCO07007	Embedded System
MBCO07013	Software Quality Assurance and Testing
MBCO07014	Network Security
BTCO08007	Biometrics
BTCO08012	Cloud Computing and IoT

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Code	Subject
BTCO08006	Robotics
BTCO07001	Distributed Computing
MBCO08010	Software Project Management
MBCO08011	Cyber Security and Ethical Hacking
MBCO08012	Image and Video Analysis
MBCO08013	Natural Language Processing

Code	Subject
MBOE00001	Deep Learning
MBOE00101	Introduction to Blockchain

Date: 6/12/2021

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 Head, Computer Science Department

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